

# *The PC Engineer's Reference Book*

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*Volume 2:  
Motherboards*

## Introduction

This book primarily contains motherboard jumper settings, but other information, such as known bugs and performance issues have been included when available. Not all comments have been verified, as they have been obtained from various places, including service departments and magazine reviews, but are believed to be reliable. To save space and costs, no diagrams have been used, as a good engineer shouldn't need them if the motherboard has been marked up properly. In other words, this is meant to be a quick reference for those familiar with computers. Parallel, serial and floppy connectors, etc. have also been excluded, except when they depart from the standard (described at the back), and where a setting indicates an on condition, the opposite has been left out, as it should be obvious. Jumpers or switches not mentioned are usually factory set and should be left alone.

The book is organised alphabetically, by manufacturer. To identify your motherboard from the screen, refer to Volume 1, *The BIOS Companion* for the manufacturer ID, then, if your BIOS is an Award, the individual code for your board under the appropriate manufacturer.

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# Table of Contents

---

A		11
	AAEON Technology Inc	11
	Ability Electron Co Ltd	11
	Abit	11
	Acer (Aopen)	17
	Achitec Corp	49
	Achme Computer	49
	Acme	49
	ACORP International	49
	Acuire, Inc	50
	Acro Computer Corp	50
	Acrosser Technology Co	50
	Activei Systems Inc	50
	Acusharp	50
	Adcom	50
	ADI	50
	Adlink Technology Ltd	50
	Advanced Integration Research (AIR)	50
	Advanced Jenn Bao Enterprises	50
	Advanced Logic Research	51
	Advanced Micro Products (AMP)	51
	Advantech	51
	AEG Olympia	51

AIR	54
Alaris	73
Alcom Group	73
ALi	73
ALR	74
Alton	76
Amaquest	76
American Megatrends	76
American Predator	76
American Sunshine Technologies	76
AMI	76
Amjet	79
AMP	79
Amptron	79
Amtec	80
Anigma	80
Anscera	80
Anson	80
Antec	80
AOpen	81
Appro	96
Apricot	96
Aprocom	97
Arche	98
Arima	102
Aristo	102
Arstoria	103
Arvida	103
ASI	103
ASK Technology	103
Aspen Systems	103
AST	103
ASUS	131
Astar	144
AT&T	144
ATC	145
ATI	145
Atima Technology	145
ATL	145
A-Trend	145
Attractive Computer Technology	147
Auhau Electronics (Sukjung)	147
AVT Industrial	147
Azza	147
B	149
BCM	149

---

BCOM	149
Bek-Tronic	149
Bestkey	149
Biostar	150
Bioteq	151
BJMT Technology	151
Bluepoint Technology	152
BMA	152
Brother	152
Bull	154
C	159
Caliber Computer Corp	159
California Graphics & Peripherals	159
ChainTech	159
Chaplet	163
Chicony	163
Clevo	164
Commate	164
Compaq	164
Compower	189
Computer Technology System	189
Computrend	189
Concord OA	189
Core International	189
Crusader	190
CyberMax	190
Cycle Computer Corp	190
D	191
Daewoo	191
Darter	192
DataExpert	192
Datatech	192
Dell	192
DFI	195
Diamond Flower International	197
Diamond Micronics	197
Digicom	197
Digimate	197
Digital	197
Domex	197
DTC	197
DTK	197
E	199

Eagle	199
ECS	199
Edom International	225
EFA	225
EFAR	225
Elite Group	225
Elonex	225
Elpina	235
ENPC	235
EPoX	236
Epson UK	237
Eupacomputer	245
Eurone LA	246
Everex	246
Expert	250
F	253
Famous Technology	253
Fentech	253
Ferranti	253
FIC	253
Fine-Pal Company	255
Firenze	255
First International Computer	256
Fittec	256
FKI	256
Flagpoint	256
Flamingo	256
Flexus	256
Flytech	256
Fong Kai Industrial	256
Fordlian	257
Formosa	257
Freetech	257
Freeway	258
Fugutech	258
Full Yes International	259
FYI	259
G	261
Gateway	261
Gemlight	261
Genoa	261
G-host	262
Giantec	262
Gigabyte	262
Global Circuit Technologies	268

---

Global Impact	268
Global Legate	268
H	269
Hewlett Packard	269
Holco	270
HSB	270
Hsing Tech	271
Hyundai	271
I	277
IBM	277
ICP	285
Impression Products	285
Informtech	285
Intel	285
Inventa	298
Inventec	298
Itri	298
Iwill	298
J	299
Jamicon	299
Jaton Corp	299
JBond	299
JDR Microdevices (HK)	300
Jetta	300
Jetway	300
J-Mark	302
JossTech	302
K	303
Kaimei	303
Kam-Tronic	303
Kapok	303
Kinpo	303
Koutech Systems	303
L	305
LAN Plus	305
Lanix	305
Lanner	305
Leading Edge	305
Lexar	305
Lucky Star	306
Lucky Tiger	306

M	307
Macrotech	307
Matra	307
Matsonic	307
Megastar	307
Mega System Co	307
Megatrends Technology	307
Memorex Telex	307
Mentor	312
Mercury Computer Corp	312
Microfive	312
Microgram	312
Micronics	312
Micom	321
MicroStar International (MSI)	321
MINT data	323
Mirage	324
MiTAC	324
Mitsuba	324
Mitsubishi	324
MLE	324
Motorola	324
MSI	324
M-Technology	324
MTI	330
Mustek	330
Mycomp	330
Mylex	331
Mynix	334
N	335
NEC	335
NewStar Engineering	341
Newtech International	341
Nexcom	341
Niagara SMD	341
NMC Peripherals Europe	342
Novell	342
NTC Technologies	343
O	345
Ocean	345
Octek	345
Olivetti	345
Opti	352
Opus	353



---

P	357
Packard Bell	357
Palit	375
Panrix	375
Palmax	376
Pantex	376
PC Chips	376
PC Master	382
PC Max	382
PC Partner	382
PC Quest	382
PC Ware	382
Pine Technology	382
Pionex Computers	384
Powertech	384
Premio	384
President Technology	384
Pride	384
Prime	385
Procomp	385
Pronix	385
Proside	385
Proteam	385
Protech	385
Q	387
QDI	387
QTC	392
Quanta	392
Quantex	392
R	393
Rectron	393
RedFox	393
Rise Computer Inc	393
Robotech	393
RSAptek	394
S	395
S & D	395
Samsung	395
Sam-Tec	401
San-Li	401
San Carlos Computers	401
SBC	401
Seanix	401

See-thru Data Systems	401
Shuttle	402
Silicon Star Intl	405
SMT	405
Soltek	405
Sowah Research	406
Soyo	407
Spacewalker	415
Spear Motherboard	415
Spica	415
Spring Circle	415
Sukjung	415
SuperMicro	416
SuperPower	421
Sye	424
T	425
Taemung/Fentech	425
Taiwan Mycomp Corp	425
Taken Corp	425
Tandon	425
Tatung	434
TC Computers	435
Tekram	435
TMC	436
Tomatoboards	442
Top Gun	442
Toshiba	442
Totem	445
Transcend	445
Trigem	446
Tulip	446
Twinhead	449
Tyan	449
U	453
UHC	453
Umax	453
UMC	453
Unicom	453
Unisys	453
Unitron	455
Unknown	455
USI	459
US Logic	459
V	461
Vanilla	461

---

Vextrec	462
Victor	462
Vision Top	467
Vobis	468
VTech	468
VTI	468
W	469
Walters International	469
Warpspeed	471
Western Digital	471
Win	477
WinCo Electronic Co	477
Win-Lan	477
Wintec (Win Technologies)	477
Wyse	477
Y	485
Yamashita	485
Yellow Dragon	485
Yukon	485
Z	487
Zenith Data Systems	487
Zida Technologies	490
CONNECTORS	491





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## AAEON Technology Inc

[www.aaeon.com.tw](http://www.aaeon.com.tw)

## Ability Electron Co Ltd

Aka Elpina [www.ability-tw.com](http://www.ability-tw.com)

## Abit

[www.abit.com.tw](http://www.abit.com.tw) [www.abit-usa.com](http://www.abit-usa.com)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	P14T	BC-6A	PB4 (Ali 1487/89 chipset)
1C-40	PK5	CC	PS6/PN5
2	PW4/PW4T	CC-D6	PH5
2-02	AH4-T (DX4)	DC	PT5/IT5H
2-15	PE5	EC-1G	IT5V v 1G
2C-C5	PB4	EC-1S	IT5V v 1S
2C-5E	PB4	EC-1Y	SM5-A
2C-7A	PB4	EC-2L	SM5
2C-B8	PB4	EC-2R	SM5-A
2C-D2	PB4	EC-3K	IT5H v1.51
9C(-9D)	PH5	EC-9B	PH5
AC	BX6 (BX)/AX5	FC	IT5H v2
AC(-7T)	LX-6 (LX)	FC-3Q	SM5-A
AC	PR5 (VX)	FC-3Y	
BC-3P	AX5 or PX5		

**AX5**

Item	Description	Notes
CPU		Jumperless setup
Bus	4 ISA/4PCI	
Memory (Mb)		4 x 72pin
Performance		Bus Speeds (MHz) up to 83MHz
Comments		Cannot disable USB interrupt

**AP5C**

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	Up to 133 MHz	
Chipset	Triton	
BIOS	AMI Flash	
Bus	4 ISA/4PCI	1 each shared
Memory (Mb)	128 Mb	EDO/FPM
Cache (K)	512K	PB or asynchronous
I/O	2S, 1P, Floppy, IDE	IDE via chipset
Problems		ATI Mach64 may produce ghosted images at high resolutions and/or colour depths.

**BE6**

Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	233-550	100 FSB
Chipset	440 BX	
BIOS	Award	
Bus	5 PCI/2 ISA	1 shared
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE, UDMA/66
Video		AGP
Performance		Quite good

**BE6-II**

Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	233-550	100 FSB
Chipset	440 BX	
BIOS	Award	
Bus	5 PCI/1 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE, UDMA/66
Video		AGP
Performance		Quite good

**BP6**

Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	2 x Socket 370
Chipset	440 BX	

Item	Description	Notes
BIOS	Award	
Bus	5 PCI/2 ISA	1 shared – up to 133 MHz
Memory (Mb)		3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

### BX6

Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	233-550	
Chipset	440 BX	
BIOS	Award	
Bus	4 PCI/3 ISA	1 shared – up to 133MHz
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP
Performance		Quite good

### KT7-RAID

Item	Description	Notes
Form Factor	ATX	
CPU		Socket A
Chipset	Via KT133	
Bus	6 PCI/1 ISA	
Memory (Mb)		3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

### LX6

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	500	
Bus	4 PCI/3 ISA	
Memory (Mb)	512 Mb SDRAM 1 Gb EDO	4 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP
Performance		100 MHz bus speed, but only fair performance.

### PB4

Item	Description	Notes
Form Factor	AT	
CPU	486DX/2/SX/SL/4	P24D/T, also Cyrix/AMD
Speeds (MHz)	266	
BIOS	Award	
Bus	3 PCI/4 ISA	
Memory (Mb)		2 72-pin SIMM. EDO and asymmetrical DRAM
Cache (K)	256K	
I/O	2S, 1P, Floppy, 2IDE	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>							
JP1-2	<b>JP1</b>	<b>JP2</b>	<b>CPU Voltage</b>						
			1-2	2-3	3.45				
	2-3	2-3	3.6						
	4-5	2-3	4						
	1-2	1-2	5						
JP3	1-2	128K cache (32Kx8 at U3,6,7,10)							
	2-3	256K cache (64Kx8 at U3,6,7,10)							
Use 16Kx8 or 32Kx8 tag RAM at U4									
JP5-9	<b>CPU</b>	<b>RJ1</b>	<b>RJ2</b>	<b>RJ3</b>	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>
RJ1-3	486DX/2/4	1-8	1-8	Off	Off	1-2	Off	Off	Off
	P24T	7-14	1-8	Off	Off	1-2	Off	Off	Off
	P24D	3-10	1-8	Off	2-3	1-2	Off	Off	1-2
	AMD 486DX2	1-8	1-8	Off	Off	2-3	Off	On	Off
	AMD 486DX4 (NV8T)*	1-8	1-8	Off	Off	2-3	Off	Off	Off
	AMD 5x86-133/160	3-10	1-8	Off	2-3	1-2	On	Off	1-2
	Enh AM486, 5x86-150	3-10	1-8	Off	2-3	1-2	Off	Off	1-2
	Cyrix DX4/DX2 (M7)**	1-8	Off	1-8	1-2	1-2	Off	Off	2-3
	Cyrix Cx5x86	1-8	1-8	Off	2-3	1-2	Off	Off	1-2
**If your Cyrix DX4-100 has DX4-P/O on it, use Cyrix Cx5x86									
JP8	Off*	Reserved							
JP4,1112 .19	<b>System Speed</b>	<b>JP4</b>	<b>JP11</b>	<b>JP12</b>	<b>JP19</b>				
	25 MHz	Off	Off	1-2	Off				
	33 MHz	On	On	1-2	Off				
	40 MHz	On	Off	1-2	Off				
	50 MHz	Off	On	2-3	On				
JP12	1-2*	Reserved							
JP14	Off*	Reserved							
JP15	1-2,5-6	12v Flash ROM							
	2-3,4-5	5v EPROM							
JP17	1-2*	Normal operation							
	2-3	Discharge CMOS							

**PN5**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium, AMD 5x86, Cyrix 6x86	
Speeds (MHz)	75-200	
Chipset	Intel 82430 HX	
BIOS	Award PnP	
Bus	3 PCI/4 ISA	
Memory (Mb)		EDO
Cache (K)	256K	PB. COAST upgrade
I/O	2S, 1P, floppy, 2 EIDE, IR	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>							
JP4	Off*	Enable Onboard I/O							
JP5,6,20	Off*	256K cache							
	On	512K cache							
JP26	On	Discharge CMOS							
DS1,2	<b>DS1</b>	<b>DS2</b>	<b>Clock multiplier</b>						
	Off	On	1 (DS1 on for Cyrix)						
	Off	Off	1.5						
	Off	On	2						
	On	On	2.5						



Jumpers	Position	Function
	On Off	3 (DS1 off for Cyrix)
	On Off	4 (Cyrix)
DS3,4,7	<b>DS3 DS4 DS7</b>	<b>CPU external clock</b>
	On On Off	50 MHz
	Off Off Off	55 MHz
	Off On Off	60 MHz
	On Off Off	66 MHz*
DS5	On*	AT bus=CPU ext/8
	Off	AT bus=CPU ext/6
DS6	On	60 MHz DRAM refresh rate
	Off*	66 MHz DRAM refresh rate

CPU Voltage	DSV1	DSV2	DSV3	DSV4	DSV5	DSV6	DSV7	DSV8
2.5	Off	Off	Off	Off	Off	On	On	Off
2.7	Off	Off	Off	Off	On	Off	On	Off
2.8	Off	Off	Off	On	Off	Off	On	Off
2.9	Off	Off	On	Off	Off	Off	On	Off
3.38*	Off	On	Off	Off	Off	Off	On	Off
3.52	On	Off	Off	Off	Off	Off	Off	On

### PW4(T)

Item	Description	Notes
Form Factor	AT	
CPU	80486, Cyrix M7, AMD	DX4
Speeds (MHz)		
Chipset		
BIOS	Award/AMI	
Bus	3 ISA/3 VL	1 ISA is 8-bit. 2 VL are Masters
Memory (Mb)	256	4 30-pin sockets, 2 72-pin
Cache (K)	1024	256 standard
I/O		

Jumpers	Position	Function
JP5	On*	Colour
	Off	Mono
JP6	Off*	Reserved
JP9	On	VL Bus 0 wait write
	Off*	VL bus 1 wait write
JP10	On*	>33 MHz System speed (VL bus)
	Off	<=33 MHz System speed (VL bus)
JP27-29	<b>System Speed</b>	<b>JP27 JP28 JP29 JP27 JP28 JP29</b>
	20 MHz	Off Off Off Off Off On
	25 MHz	Off Off On On Off On
	33 MHz	On On On Off On On
	40 MHz	Off On On On Off Off
	50 MHz	On Off Off

LH figures for U30 clock generator. RH for U31.

Jumpers	Cache size	JP60	JP61	JP62	JPX3
JP60-62	128K (U2,4,6,8)	2-3	1-2	2-3	9-16
JPX3	256K (64K in U2,4,6,8)	2-3	2-3	2-3	3-10
	256K (16Kx8 tag, 64K in U2,4,6,8)	2-3	4-5	2-3	3-10
	256K (32K in all sockets)	2-3	1-2	2-3	13-20
	256K (16Kx8 tag, 32K all sockets)	2-3	4-5	2-3	13-20
	512K (64K in all sockets)	2-3	1-2	2-3	1-8

Jumper	Position	Function
	512K (128K in U2,4,6,8) 1 Mb (128K all sockets)	2-3 1-2 2-3 3-10 1-2 1-2 1-2 1-8
JP47-52	1-2	SM (System Management Output) – for green power supply
JP67	1-2 2-3	Normal Discharge CMOS

Intel Inside

	SX	SX(SL)	DX/DX2	DX/2 (SL)	DX4-75(SL)	DX4-100(SL)	P24T	P24D
RN8	1-8	1-8	1-8	1-8	Off	Off	1-8	1-8
JP37	Off	Off	Off	Off	On	Off	Off	Off
JP38	Off	Off	Off	Off	Off	On	Off	Off
JP39	Off	Off	Off	Off	Off	Off	Off	Off
JP40	Off	Off	Off	Off	Off	Off	Off	Off
JP20	1-2	1-2	Off	Off	Off	Off	Off	Off
JP26	1-2	Off	1-2	Off	Off	Off	Off	Off
JP42	Off	1-2	Off	1-2	1-2	1-2	1-2	1-2
JP65	Off	Off	1-2	1-2	1-2	1-2	1-2	1-2
RN5	Off	Off	Off	Off	Off	Off	Off	Off
RN6	1-8	1-8	1-8	1-8	1-8	1-8	1-8	1-8
RN7	Off	Off	1-8	1-8	1-8	1-8	1-8	1-8
JPX1	5-12	5-12	5-12	5-12	5-12	5-12	5-12	5-12
JPX2	Off	Off	Off	Off	Off	Off	Off	Off
JP15	Off	Off	Off	Off	Off	Off	1-2	1-2
JP18	Off	Off	Off	Off	Off	Off	Off	1-2
JP21	Off	Off	Off	Off	Off	Off	1-2	1-2
JP33	Off	Off	Off	Off	Off	Off	Off	1-2
JP34	Off	Off	Off	Off	Off	Off	Off	1-2
JP35	Off	Off	Off	Off	Off	Off	1-2	1-2
JP16	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
JP17	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3

Cyrix Instead

	DX(2)	DX2-V50	DX2-V66	DX2-V80	DX4-100	Cx5x86
RN8	1-8	Off	Off	Off	Off	Off
JP37	Off	On	Off	Off	Off	Off
JP38	Off	Off	Off	Off	On	On
JP39	Off	Off	On	Off	Off	On
JP40	Off	Off	Off	On	Off	Off
JP20	Off	Off	Off	Off	Off	Off
JP26	Off	Off	Off	Off	Off	1-2
JP42	1-2	1-2	1-2	1-2	1-2	Off
JP65	1-2	1-2	1-2	1-2	1-2	1-2
RN5	1-8	1-8	1-8	1-8	1-8	Off
RN6	Off	Off	Off	Off	Off	1-8
RN7	1-8	1-8	1-8	1-8	1-8	1-8
JPX1	1-8	1-8	1-8	1-8	1-8	5-12
JPX2	1-8	1-8	1-8	1-8	1-8	Off
JP15	Off	Off	Off	Off	Off	1-2
JP18	Off	Off	Off	Off	Off	1-2
JP21	Off	Off	Off	Off	Off	Off
JP33	Off	Off	Off	Off	Off	1-2
JP34	Off	Off	Off	Off	Off	1-2
JP35	Off	Off	Off	Off	Off	1-2
JP16	2-3	2-3	2-3	2-3	2-3	2-3
JP17	2-3	2-3	2-3	2-3	2-3	2-3

AMD/UMC

	DX(2) 5v	DX4 3.45v	DX2 3.45v	Enhanced	UMC U5-S
RN8	1-8	Off	Off	Off	1-8
JP37	Off	On	Off	Off	Off

	DX(2) 5v	DX4 3.45v	DX2 3.45v	Enhanced	UMC U5-S
JP38	Off	On	On	On	Off
JP39	Off	Off	Off	Off	Off
JP40	Off	Off	Off	Off	Off
JP20	Off	Off	Off	Off	1-2
JP26	1-2	1-2	1-2	Off	1-2
JP42	Off	Off	Off	1-2	Off
JP65	1-2	1-2	1-2	1-2	Off
RN5	Off	Off	Off	Off	Off
RN6	1-8	1-8	1-8	1-8	1-8
RN7	1-8	1-8	1-8	1-8	Off
JPX1	5-12	5-12	5-12	5-12	5-12
JPX2	Off	Off	Off	Off	Off
JP15	Off	Off	2-3	1-2	Off
JP18	Off	Off	Off	1-2	Off
JP21	Off	Off	Off	Off	Off
JP33	Off	Off	Off	1-2	Off
JP34	Off	Off	Off	1-2	Off
JP35	Off	Off	Off	1-2	Off
JP16	1-2	1-2	1-2	2-3	2-3
JP17	1-2	1-2	1-2	2-3	2-3

## SL6

### Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	1 GHz/667 MHz	66-153 FSB
Chipset	Intel 815	
BIOS	Award	
Bus	6 PCI 1 AMR 1 AGP	
Sound	Yamaha YMF752-S	
Memory (Mb)	512	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE controllers, UDMA/66

## WB6

### Jumperless

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	233-550	100 FSB
Chipset	Intel 810E	
BIOS	Award	
Bus	3 PCI 1 AMR	
Memory (Mb)		2 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE controllers, UDMA/66

## Acer (Aopen)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	MTX A512		

*Acermate 386SX/20n*

Item	Description	Notes
Form Factor	Proprietary	
CPU	386SX	
Speeds (MHz)	20	
Chipset	Ali	
Bus	2 ISA	Uses sideways board
I/O	2S, 1P, Floppy, IDE	
Video		On board

Jumper	Position	Function
J4	On*	VGA enable
J7	Check* Pass	Check Password Clear Password
J8	On Off*	IRQ9 to VGA IRQ9 to expansion card
J10-13,15,16,19,20	Reserved	Do not use

*A1GX-1*

	P24C NV8T/B	P24D	AMD DX2 SV8T	AMD DX4 SV8T	AMD DX2 SV8B	AMD DX4 SV8B	Cyrix/IBM/ TI DX2	Cyrix/IBM DX4	Cyrix/IBM 5x86	O/D P24T
JPX2	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
JP13	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
JP14	2-3	2-3	2-3	2-3	2-3	2-3	Open	Open	2-3	2-3
JP15	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2	Open	2-3
JP17	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2	1 <sup>st</sup> 1-2	2-3
JP18	2-3	2-3	2-3	2-3	1-2	1-2	2-3	2-3	Open	2-3
JP19	2-3	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2
JP20	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2	2-3	2-3
JP21	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2	2-3	2-3
JP22	2-3	1-2	2-3	2-3	1-2	1-2	2-3	2-3	2-3*	1-2
JP23	2-3	2-3	2-3	2-3	2-3	2-3	1-2	1-2	2-3	2-3
JP25	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	Open	2-3
JP26	2-3	1-2	2-3	2-3	1-2	1-2	2-3	2-3	2-3*	1-2
JP27	3-4	3-4	2-3	3-4	2-3	3-4	3-4	3-4	3-4	1-2
JP32	1-2	1-2	1-2	1-2	1-2	1-2	1-2/2-3	2-3	1-2	1-2

\*4<sup>th</sup> 1-2

Jumper	Position	Function	
JP1	1-2 2-3*	OEM BIOS Acer BIOS	
JP2	1-2 2-3*	Enable Password Check Bypass Password	
JP3	1-2 2-3*	COM1 boot Normal boot	
JP4,5	<b>JP4</b> 1-2 2-3 1-2	<b>JP5</b> 2-3 1-2 1-2	<b>Onboard Memory</b> 4 Mb 8 Mb Disable
JP6	1-2 2-3*	Disable onboard super I/O Enable	
JP7	2-3* 1-2	Printer DRQ3 Printer DRQ1	
JP8	1-2 2-3*	Printer DACK1 Printer DACK3	
JP9	2-3*	Enable onboard VGA	
JP10	1-2	IDE port 0F4h, 0F8h, 0FCh	

Jumper	Position	Function	
JP11	2-3*	IDE port 074h, 078h, 07Ch	
	1-5	25 MHz	
	2-6	33 MHz	
	3-7	40 MHz (not recommended)	
JP28	1-2	Enable Suspend/Resume button	
	2-3*	Enable Reset button	
JP29	1-2	Disable onboard IDE	
	2-3*	Enable	
JPX1	1-2	Flash ROM	
	2-3*	EPROM	
JP30,31	<b>JP30</b>	<b>JP31</b>	<b>Cache size</b>
	1-2	1-2	128K, 4 x 32K x 8
	2-3	2-3	256K, 8 x 32K x 8

#### Front Panel Header

Position	Function
1-2	Keylock
3-5	Power LED
7-10	Speaker
12-13	Green LED
15-17	Suspend switch
19-20	Reset

#### A1GX-2

	i486 P24C	i486 3.3v WB	Cyrix/IBM /TI DX2	Cyrix DX4/100	TI DX4 /100	C5x86	AMD DX2 NV8T
JP17	2-3	2-3	1-2	1-2	1-2	1 <sup>st</sup> 1-2 6 <sup>th</sup> 2-3 7 <sup>th</sup> 2-3	2-3
JP18	1-2	1-2	2-3	2-3	2-3	Open	1-2
JP19	2-3	1-2	1-2	1-2	2-3	1-2	2-3
JP26	2-3	1-2	2-3	2-3	2-3	4 <sup>th</sup> 1-2 5 <sup>th</sup> 1-2 6 <sup>th</sup> 2-3 7 <sup>th</sup> 2-3	2-3
JP27	3-4	3-4	3-4	3-4	3-4	3-4	2-3
JP32	1-2	1-2	1-2/2-3	1-2	1-2	1-2	1-2
JP36	1-2	1-2	1-2	1-2	1-2	1-2	1-2

	DX4 NV8T	DX2 NV8B	DX4 NV8B	Enh AMD DX2 SV8T	Enh AMD DX4 SV8T	Enh AMD DX2 SV8B	Enh AMD DX4 SV8B
JP17	2-3	2-3	2-3	2-3	2-3	2-3	2-3
JP18	2-3	1-2	2-3	2-3	2-3	1-2	1-2
JP19	2-3	1-2	1-2	1-2	1-2	1-2	1-2
JP26	2-3	1-2	1-2	2-3	2-3	1-2	1-2
JP27	3-4	2-3	3-4	2-3	3-4	2-3	3-4
JP32	1-2	1-2	1-2	1-2	1-2	1-2	1-2
JP36	1-2	1-2	1-2	1-2	1-2	1-2	1-2

Jumper	Position	Function
JP1	1-2	OEM BIOS
	2-3*	Acer BIOS
JP2	1-2	Enable Password Check
	2-3*	Bypass Password
JP3	1-2	Mono/COM1 boot



<i>Jumper</i>	<i>Position</i>					<i>Function</i>
JP2	2-3					Enable password check
	1-2					Disable
JP10,17,19	<b>JP10</b>	<b>JP17</b>	<b>JP19</b>	<b>CN14</b>	<b>CPU Clock</b>	
CN14	1-2	-2	2-3	2-6	40 MHz	
	2-3	2-3	2-3	3-7	33 MHz	
	2-3	2-3	2-3	4-8	25 MHz	
JP14	Closed					Enable onboard VGA
	Open					Disable
JP16	Open					Enable onboard local bus IDE
	Closed					Disable
JP20	1-2					Intel SL enh or Cyrix CPU
	2-3					Normal CPU
JP21	Closed					Enable onboard super I/O
	Open					Disable
JP28	1-2					Enable onboard memory
	2-3					Disable
JP30,31	1-2					128K cache (4 x 32K x 8)
	2-3					256K cache (8 x 32K x 8)
JP37-38	1-2					Enable Reset button
	2-3					Disable

#### Front Panel Header

Position	Function
1-2	Keylock
3-5	Power LED
7-10	Speaker
12-13	Green LED
15-17	Suspend switch
19-20	Reset

#### AP53

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	
Speeds (MHz)		
Chipset	Intel 430HX	
BIOS	AMI	
Bus	4 PCI/3 ISA	
Memory (Mb)		4 x 72-pin sockets
I/O	2S, 1P, floppy, IDE, USB	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1,3	<b>JP1</b>	<b>Bus Speed</b>
	1-2,3-4	25 MKz
	1-2	30 MHz
	3-4	33 MHz
JP3	1-2,3-4	Out for P55C
JP4	In	Enable PS/2 Mouse
	Out	Disable
JP5	1-2	Normal
	2-3	Clear CMOS
JP8	1-2	Enable onboard I/O
	2-3	Disable
JP10	1-2,3-4	3x CPU
	3-4,5-6	4x CPU
	5-6,7-8	5x CPU

Jumper	Position	Function	
	1-2,7-8	6x CPU	
JP11	1-2	3.43v Core	
	3-4	3.52v	
	5-6	2.5v	
	7-8	2.7v	
	9-10	2.8v	
	11-12	2.9v	
JP12	1-2	Chipset/PBSRAM Voltage 3.43v	
	3-4	3.52v	
JP13	1-2,3-4	In for P55C	
JP 1301	<b>JP1301</b>	<b>JP1302</b>	<b>Flash ROM Boot Block</b>
JP1302	1-2	1-2	Reserved
	2-3	2-3	Enabled

**AX6F**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Thermal protection
Chipset	Intel 82440FX PCiset	
BIOS	Award Flash	
Memory (Mb)	512	FPM/EDO. 4 x 72-pin sockets
Cache (K)	None	
I/O	2S, 1P, floppy, IDE, USB, PS/2	

Jumper	Position	Function		
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>CPU Frequency Ratio</b>
	2-3	1-2	2-3	1.5x
	1-2	1-2	1-2	2x
	1-2	1-2	2-3	2.5x
	1-2	2-3	1-2	3x
	1-2	2-3	2-3	3.5x
	2-3	1-2	1-2	4x
	2-3	1-2	2-3	4.5x
	2-3	2-3	1-2	5x
	2-3	2-3	2-3	5.5x
	1-2	1-2	1-2	6x
	1-2	1-2	2-3	6.5x
	1-2	2-3	1-2	7x
	1-2	2-3	2-3	7.5x
	2-3	1-2	1-2	8x
JP5,6	<b>JP5</b>	<b>JP6</b>	<b>CPU external clock</b>	
	1-2	1-2	66 MHz*	
	2-3	2-3	60 MHz	
JP14	1-2	Normal operation		
	2-3	Clear CMOS		

**Front Panel Header**

Position	Function
1-2	Keylock
3-5	Power LED
7-10	Speaker
12-13	Green LED
15-17	Suspend switch
19-20	Reset



## F433T

Jumper	Position	Function
JP2	1-2*	33 MHz
JP3	1-2*	
J4	1-2*	486DX
	2-3	486SX
JP4	In	Discharge battery (erase CMOS)
	Out*	Charge battery
JP6	N/C	UPS Connector
JY2	In*	Enable system security setup
	Out	Disable system security setup
JN4	In*	Enable reset switch
	Out	Disable reset switch
J8	On	IRQ9 to VGA
	Off*	IRQ9 to expansion card
SW1	Reserved	Do not use

## VIL5G

Jumper	Position	Function
JP1,2	<b>JP1</b> 1-2,4-5,8-9 1-2,5-6,8-9 1-2,5-6,7-8 2-3,5-6,8-9	<b>JP2</b> 1-2,4-5,8-9 1-2,4-5,8-9 1-2,4-5,7-8 2-3,5-6,8-9
		<b>Cache Size</b> 128K (32Kx4) 256K (64Kx4) 512K (128Kx4) 256K (32Kx8)
JP6		Clear CMOS
JP18	1-2 2-3	VESA write 0 wait state VESA write 1 wait state
JP19	1-2 2-3	VESA bus speed <=33 MHz VESA bus speed >33 MHz

## 5v CPU

	i486SX/DX DX2/SL enh	Cyrix DX/DX2	Intel/AMD SX	Intel/AMD DX/DX2	Intel P24D
JP9	1-2	2-3	1-2	1-2	1-2
JP10	1-2	2-3	1-2	1-2	2-3
JP13	1-2	1-2	Open	Open	1-2
JP23	3-4,5-6,7-8	2-3,5-6,7-8	6-7	5-6,7-8	1-2,3-4,5-6,7-8
JP24	7-8	2-3,7-8	Open	7-8	7-8
JP25	Open	2-3* or Open**	Open	Open	1-2,5-6
JP26	1-2,5-6	4-5	Open	Open	2-3,5-6,7-8
JP27	4-5,7-8	2-3,7-8	7-8	7-8	4-5,6-7

\*Without voltage regulator – Cyrix CPU in w/t mode only. \*\*With voltage regulator.

## 3.45v CPU

	i486DX4	AMD DX2	AMD DX4	Cyrix DX2
JP9	1-2	1-2	1-2	2-3
JP10	1-2	1-2	1-2	2-3
JP13	1-2	Open	Open	1-2
JP23	3-4,5-6,7-8	5-6,7-8	5-6,7-8	2-3,5-6,7-8
JP24	7-8	7-8	7-8	2-3,7-8
JP25	Open	3-4*	3-4	3-4
JP26	1-2,5-6	*	Open	4-5
JP27	4-5,7-8	7-8	7-8	2-3,7-8
JP16	1-2	Open	Open	Open

\*Connect pin 8 of JP25 to pin 7 of JP26.

32/20

Jumper	Position	Function				
S1-4	<b>ROM Size</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>JP5</b>
JP5	27128	On*	On*	Off*	Off*	2-3
	27256	Off	Off	On	On	2-3
	27512	Off	Off	On	On	1-2
S5	On	CGA				
	Off*	Mono				
S6	Off*	20 MHz				
	On	SMART Mode (not under Xenix)				
S8	On	ROM Shadow Disabled				
	Off	ROM Shadow Enabled				
JP6-8	<b>Math CoPro</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>		
	Installed	1-2	1-2	2-3		
	Not Installed*	2-3*	2-3*	1-2*		
JP9	Open*	2Mb on board				
	1-2(A)	4Mb on board				

500+

Jumper	Position	Function		
S1	On	Disable Floppy		
	Off*	Enable Floppy		
S2	On	Enable 8087		
	Off	Disable 8087		
S3-4	S3	S4	Base Mem	
	Off	On	640K	
	On	Off	512K	
	Off	Off	256K	
S5-8	<b>S5</b>	<b>S6</b>	<b>Display</b>	
	Off	Off	Mono 80x25	
	On	Off	Colour 80x25	
	Off	On	Colour 40x25	
	On	On	EGA etc	
S1, 7-8	<b>S1</b>	<b>S7</b>	<b>S8</b>	<b>Floppy</b>
	Off	On	On	1 drive
	Off	Off	On	2 drives

710

SW1

Jumper	Position	Function
S1	On	Enable IRQ 2
S2	On	Enable RTC 0 (300-303)
	Off	Enable RTC 1 (2C0-2C3)
S3	On	Enable COM 2 (2F8-2FF)
	Off	Disable COM 2
S4	On	Enable COM 1 (3F8-3FF)

SW2

Switch	Position	Function	
S1	On	Disable Floppy	
	Off	Enable Floppy	
S2	On	Disable 8087-1	
	Off	Enable 8087-1	
S3-4	<b>S3</b>	<b>S4</b>	<b>Memory</b>
	Off	Off	Bank 1
	On	Off	Bank 1 & 2
	Off	On	Bank 1, 2 & 3

Switch	Position		Function
	On	On	Reserved
S5	Reserved		Do not use
S6	On		Disable display
	Off		Enable display
S1, 7-8	<b>S1</b>	<b>S7</b>	<b>S8</b>
	Off	On	On
	Off	Off	On

## SW3

Switch	Position				Function
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Bank Address</b>
	Off	Off	Off	Off	C0000-C3FFF
	On	Off	Off	Off	C4000-C7FFF
	Off	On	Off	Off	C8000-CBFFF
	On	On	Off	Off	CC000-CFFFF
	Off	Off	On	Off	D0000-D3FFF
	On	Off	On	Off	D4000-D7FFF
	Off	On	On	Off	D8000-DBFFF
	On	On	On	Off	DC000-DFFFF
	Off	Off	Off	On	E0000-E3FFF
	On	Off	Off	On	E4000-E7FFF
	Off	On	Off	On	E8000-EBFFF
	On	On	Off	On	EC000-EFFFF
	Off	Off	On	On	F0000-F3FFF
S5	On				3 Mb RAM
	Off				768K RAM
S6	On				RAM Bank enable
	Off				RAM Bank disable
S7	On				64K ROM
	Off				40K ROM
S8	On				10 MHz
	Off				4.77 MHz

## SW4

Switch	Position	Function
S1	Colour	Colour display
	Mono	Mono display
JP1	In A	Disable display
	In B	Enable display

## 910

## SW1

Switch	Position			Function
S1-3	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>Memory Size</b>
	Off	On	Off	256K
	Off	On	On	512K
	On	Off	On	640K
	Off	Off	On	1024K
S4	On			0 Wait State
	Off			1 Wait State

## SW2

Switch	Position	Function					
S1-2	<b>EPROM</b>	<b>S1</b>	<b>S2</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>
5-8	27128	On	Off	On	Off	Off	On
	27256	On	Off	Off	On	Off	On

Switch	Position	Function
	27512	Off On Off On Off On
S4	On	Colour Display
	Off	Mono Display
JP11	H	High System Speed
	N	Low System Speed

913

SW1

Switch	Function	Position
S1-4	<b>EPROM</b>	<b>S1 S2 S3 S4</b>
	27128	On Off Off On
	27256	On Off On Off
	27512	Off On On Off

SW2

Jumper	Position	Function
S1	Off	12 MHz
	On	8 MHz
S2	Off	Disable Floppy
S3	Off	HD controller installed
	On	No HD controller
S4	Off	Disable COM 1 (3F8-3FF)
	On	Enable COM 1

SW3

Switch	Function	Position
S1-8	<b>Display</b>	<b>S1 S2 S3 S4 S5 S6 S7 S8</b>
	EGA	Off On On Off On On On On
	CGA	Off Off Off On Off Off On On
	MGA	Off Off On Off Off Off On On

SW4

Switch	Function	Position
S1-3	<b>Memory Size</b>	<b>S1 S2 S3</b>
	512K	On On On
	640K	Off On On
	512+512K	On Off On
	640+384K	Off Off On

915

As for System 913

915V

Jumper	Position	Function
JA	A	Enable VGA
JB,C,D		<b>B C D</b>
	Disable COM 1	- A B
	Disable COM 2	- B B
	Disable HD	B B A
	Enable HD	A A A

1100LX

Jumper	Position	Function
JP1	In	512K ROM
	Out	256K ROM

JP2	In	Maths copro installed
JP3	In	Reset system password
	Out*	System password disabled

### 1100/16

Switch	Position	Function
S1-4	<b>EPROM</b>	<b>S1 S2 S3 S4 JP5</b>
JP5	27128	On On Off Off B
	27256	Off Off On On B
	27512	Off Off On On A
S5	On	CGA Display
	Off	EGA, MGA, MDA Display
S6	Off	20 MHz
	On	SMART speed
S7, JP9	<b>S7 JP9</b>	<b>Memory</b>
	Off	640+1Mb+256
	Off A	640+3Mb+256
S8	Off	RAM BIOS
	On	ROM BIOS
JP6,7,8	<b>JP6 JP7 JP8</b>	<b>Maths Copro</b>
	A A B	There
	B B A	Not there

### 1120SX

Jumper	Position	Function
J1	In*	Detect add-On display and
	Out	Disable On-board VGA automatically
JP3	A*	Enable password check
	B	Bypass and clear existing password

### 1100/25

#### SW1

Switch	Function	Position
S1-4	<b>EPROM</b>	<b>S1 S2 S3 S4</b>
	27128	On Off On Off
	27256	On* Off* Off* On
	27512	Off On Off On
S5-8	<b>I/O recovery delay</b>	<b>S5 S6 S7 S8</b>
	0	Off Off Off Off
	1	Off Off Off On
	2	Off Off On Off
	3	Off Off On On
	4	Off On On On
	5	Off On Off On
	6	Off On On Off
	8	On Off Off Off
	9	On Off Off On
	10	On Off On Off
	11	On Off On On
	12	On On Off Off
	13	On On Off On
	14	On On On Off
	15	On On On On

## SW2

Switch	Position	Function					
S1	On*	25-pin=COM1, 9-pin=COM2					
	Off	9-pin=COM1, 25-pin=COM2					
S2	Off*	Enable COM1					
	On	Disable COM1					
S3	Off*	Enable COM2					
	On	Disable COM2					
S4	Off*	Enable Printer Port					
	On	Disable Printer Port					
S5-7	<b>Printer Port</b>	<b>S5</b> <b>S6</b> <b>S7</b>					
	LPT1	Off*    Off*    On*					
	LPT2	On      On      Off					
S8	Off*	Shadow RAM enabled					
	On	Shadow RAM disabled					
S9	Off*	Primary display Mono or extended					
	On	Primary display CGA					
S10	Off*	DRAM Bank B enabled					
	On	DRAM Bank B disabled					
JP6-8	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>Maths Copro</b>			
	1-2	1-2	1-2	There			
	2-3*	2-3*	2-3*	Not there			
JP12	1-2*	Remap 256K to FA0000-FDFFFF					
	2-3	Do not remap or permit RAM caching of F00000-FFFFFF					
JP13-16	<b>RAM</b>	<b>Bank</b>	<b>Modules</b>	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>
	2 Mb	A	512 x 9	2-3*	2-3*	1-2*	1-2*
	4 Mb	A&B	512 x 9	2-3	2-3	1-2	1-2
	6 Mb	A	512 x 9	1-2	1-2	1-2	1-2
		B	1M x 9				
	4 Mb	A	1M x 9	1-2	1-2	2-3	2-3
8 Mb	A&B	1M x 9	1-2	1-2	2-3	2-3	

## 1100/33

As for 1100/25

## 1120C

As for 1100/25

## 1133T

Jumper	Position	Function	
J4	In*	Setup accessible	
	Out	Setup inaccessible	
J6	1-2*	Normal CMOS state	
	2-3	Discharge CMOS	
JA1	32K cache	5-6	
	64K cache	1-2*	5-6*
	128K cache	1-2	4-5

## 1170

Jumper	Position	Function		
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>Tuning write timing</b>
	Out*	Out	Out*	Open
	In	In*	In	Close
JP4	1-2	27512 EPROM		
	2-3*	27256 EPROM		

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP5	1-2*	Enable I/O recovery
	2-3	Disable I/O recovery
JP6	Out	Disable Parity Check
	In*	Normal parity operation
JP7		UPS interface
JP8	1-2	INIT directly connected to onboard controller
	2-3*	INIT pass through buffer
JP9	1-2*	Enable power-on password in setup
	2-3	Disable power-on password in setup
JP10	1-2	DMA timing low speed
	2-3*	DMA timing 25 MHz

#### Daughterboard

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2*	TCR always high
	2-3	TCR connects 486 to system board
JP2	1-2	WRDYIN signal
	2-3*	Cascade JP3-2
JP3	1-2*	80486 RDY signal
	2-3	80486 B13 not connected

#### 1172

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP3	On*	Keyboard and reset button active
	Off	Keyboard and reset button locked
JP5	1-2*	80486/7 in socket B
	2-3	80486SX in socket B
JP15	1-2	27512 EPROM
	2-3*	27256 EPROM
JP18	On	Discharge CMOS
	Off*	Normal
JP22	1-2	Other Acer display card (Normal VGA)
	2-3*	ATI Onboard display (faster VGA performance)
JP71	1-2*	16-bit ROM
	2-3	8-bit ROM
S1	On*	Enable Floppy
	Off	Disable Floppy
S2	On*	Enable HD controller
	Off	Disable HD controller
S3	On*	Enable COM1
	Off	Disable COM1
S4	On*	Enable COM2
	Off	Disable COM2
S5	On*	Enable LPT1
	Off	Disable LPT1
S6	On*	Reserve 15-16 Mb for system
	Off	Enable add-On card
S7	On*	Enable reset function
	Off	Disable reset function
S8	On*	Enable password security
	Off	Disable password security

#### 1200

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1,4	1-2	Indicate hardware errors in Intel chipset (EBC and ISP)

Jumper	Position	Function
JP2	1-2*	512/256K EPROM
	2-3	128K EPROM
JP3	2-3*	128/256K EPROM
	1-2	512K EPROM
JPX2	1-2	Page miss; for debugging only
	2-3*	Detect page hit or miss
JPX3	1-2	Forces CHHIT high for cache miss; debugging only
	2-3*	Detect cache hit or miss (CHHIT low if hit)
JPX4	2-3*	Fast CPU reset
	1-2	Normal CPU reset
JPX5	1-2*	9 ns RAS delay
	2-3	20 ns RAS delay
JPX6	1-2*	Enable password security
	2-3	Disable password security
JPX7	1-2	CLK1
	2-3	DCLK; debugging only

1733

Jumper	Position	Function		
JP1		UPS sense signal input		
JP2	1-2	No reset		
	2-3*	Fast RC reset		
JP3,4	Out	<b>JP3</b>	<b>MB Clock</b>	
		Out		Disconnect
		In*		Connect
JP5	In*	3 BCLK I/O recovery time		
	Out	1 BCLK I/O recovery time		
JP6		External speaker		
JP7	1-2	External speaker		
	2-3	Onboard buzzer		
JP8	In*	Dual Bus arbitration		
	Out	Single Bus arbitration		
TP1	1-2*	Normal LCS		
	2-3	Delayed LCS		
J4	1-2	Latched IRQ INTR		
	2-3*	Unlatch INTR		
J5,6	80486 33 80386 33	<b>J5</b>	<b>J6</b>	
		Out*	In*	
		In	Out	
J7,8		Reserved		
J9	1-2	Show OEM BIOS message		
	2-3*	Show Acer BIOS message		
S1	On*	System security bypassed		
	Off	Not bypassed		
S2	On*	Enable reset function		
	Off	Disable reset function		
S3	On	CPU 64 bit bus (486/33, 50)		
	Off	CPU 32 bit bus (486SX, 386)		

1933T

Jumper	Position	Function
J1		Keyboard/mouse connector
J2	1-2	33 MHz CPU speed
J3	1-2	
J4	1-2*	486DX
	2-3	486SX



<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP4	In	Discharge battery, erase CMOS
	Out	Charge battery
JP6		UPS connector
JY2	In*	Enable system security setup
	Out	Disable system security setup
JY5	2-3*	For chipup CPU
JN4	In*	Enable reset switch
	Out	Disable reset switch
SW1		Reserved

### 3000SP33

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	UPS present
	2-3	UPS not present
JP2	1-2*	Enable password security
	2-3	Disable password security
JP3	1-2*	512/256K EPROM
	2-3	128K EPROM
JP4	1-2	512K EPROM
	2-3*	256/128K EPROM
JP5	1-2*	I/O recovery time added
	2-3	No /O recovery time added
JP6	1-2*	Latched interrupt
	2-3	Unlatched interrupt
JP9	1-2	25 MHz CPU (Acer 1200/25)
	2-3	33 MHz CPU (Acerframe 3000SP33)
JP10	1-2	Disable page hit cycle (for diags)
JP11	1-2	Cache hit cycle disabled (diags)
	2-3	Cache hit cycle enabled (normal ops)
JP13	1-2	Speaker on JP14
	2-3	On board buzzer

### Daughterboard

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	CPU read 4167 with 0 wait state
	2-3*	CPU read 4167 with 1 wait state
JP2	1-2	WRDY: system board ready
	2-3*	WRDY1#: cascade to JP3
JP3	1-2*	RDY: i486 ready
	2-3	Reserved – do not use

### M3

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Check password
	2-3	Bypass
JP2	Open	Disable reset button
	Closed	Enable
JP3	1-2	Acer BIOS
	2-3	OEM
JP4	1-2	128 or 256 byte RTC NVRAM
	2-3	4K, reserved
JP6	1-2	Buzzer
	2-3	Speaker

Ali CPU Board (3.3v)

PCB 94414-1. Max 133 MHz. As for M5

Pentium CPU Board

PCB 94323-1

Jumper	Position	Function
JP1	1-2	Pentium 90
	2-3	Reserved

M3A

Jumper	Position	Function		
JP1	1-2	Acer BIOS logo		
	2-3	No logo		
JP2	1-2	Check password		
	2-3	Bypass		
JP3	1-2	Buzzer		
	2-3	Speaker		
JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>CPU frequency</b>
	2-3	1-2,4-5	2-3	75 MHz
	2-3	1-2,3-4	2-3	90 MHz
	2-3	2-3,4-5	2-3	100 MHz
	2-3	1-2,3-4	1-2	120 MHz
	2-3	2-3,4-5	1-2	133 MHz
	1-2	1-2,3-4	1-2	150 MHz
	1-2	2-3,4-5	1-2	166 MHz
	1-2	2-3,4-5	2-3	200 MHz
JP7-9	1-2	P54C		
	2-3	P55C		
JP3 (?)	1-2	256K cache		
	2-3	512K cache		
JP10	1-2	Enable SMM switch		
	2-3	Enable reset switch (e.g. normal power supply)		
	3-4	Additional reset switch		
JP11	1-2	CPU VR voltage (3.3-3.46v)		
	2-3	CPU VRE voltage (3.45-3.6v)		

M5

Dual Pentium

Jumper	Position	Function
JP1	1-2	Acer BIOS logo
	2-3	OEM logo
JP2	1-2	Check password
	2-3	Bypass
JP3	1-2	DREQ1
	2-3	DREQ3
JP4	1-2	DACK1
	2-3	DACK3
JP5	Open	Disable reset button
	Short	Enable
JP6	1-2	Buzzer
	2-3	Speaker

CPU/Memory Board

PCB 93404-1. Max 133 MHz

Jumper	Position	Function	
JP1,13	<b>JP1</b>	<b>JP13</b>	<b>Cache size</b>
	1-2	2-3	256K

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
	2-3	1-2	512K
JP2	1-2		3/2 bus core ratio
	2-3		2/1
JP12,14,15	<b>JP12</b>	<b>JP14</b>	<b>JP15</b>
	1-2	Short	Short
	2-3	Open	Open
			SRAM
			Standard
			Synchronous
JP17,18	<b>JP17</b>	<b>JP18</b>	<b>SRAM</b>
	Short	Short	Standard
	1-1	2-2	Synchronous (1 of 17,18, 2 of 17,18)

#### CPU/Memory Board

PCB 93404-2. Max 166 MHz

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JP1,13	<b>JP1</b>	<b>JP13</b>	<b>Cache size</b>
	1-2	2-3	256K
	2-3	1-2	512K
JP2,3	<b>JP2</b>	<b>JP3</b>	<b>Bus core ratio</b>
	1-2	1-2	3/2
	2-3	1-2	2/1
	2-3	2-3	5/2
JP12,14,15	<b>JP12</b>	<b>JP14</b>	<b>JP15</b>
	1-2	Short	Short
	2-3	Open	Open
			SRAM
			Standard
			Synchronous
JP17,18	<b>JP17</b>	<b>JP18</b>	<b>SRAM</b>
	Short	Short	Standard
	1-1	2-2	Synchronous (1 of 17,18, 2 of 17,18)

#### Ali CPU Board (3.3v)

PCB 94414-1. Max 133 MHz

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JP1	Open		50 MHz host clock
	1-2		60 MHz
	2-3		66 MHz
JP2	Open		Reserved
JP4	1-2		CPU VR voltage (3.3-3.46v)
	2-3		CPU VRE voltage (3.45-3.6v)
JP5,7	<b>JP5</b>	<b>JP7</b>	<b>L2 Cache size</b>
	1-2	1-2	256K
	2-3	2-3	1Mb
JP6	2-3		Reserved
JP8	Closed		2/1 bus core ratio
	Open		3/2

#### Ali CPU Board (3.3v)

PCB 94414-2. Max 166 MHz

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JP1	Open		50 MHz host clock
	1-2		60 MHz
	2-3		66 MHz
JP2	Open		Reserved
JP4	1-2		CPU VR voltage (3.3-3.46v)
	2-3		CPU VRE voltage (3.45-3.6v)
JP5,7	<b>JP5</b>	<b>JP7</b>	<b>L2 Cache size</b>
	1-2	1-2	256K
	2-3	2-3	1Mb
JP6	2-3		Reserved
JP8	Closed		2/1 bus core ratio

Jumper	Position	Function
	Open	3/2
	(?)	5/2

M7

Jumper	Position	Function		
JP1	1-2	CPU VR voltage (3.3-3.46v)		
	2-3	CPU VRE voltage (3.45-3.6v)		
JP2	1-2	SCSI terminator on		
	2-3	Software settings		
JP3	1-2	256K cache		
	2-3	512K cache		
JP4-5,7	<b>JP4</b>	<b>JP5</b>	<b>JP7</b>	<b>CPU frequency</b>
	2-3	2-3	1-2	75 MHz
	2-3	2-3	2-3	90 MHz
	2-3	2-3	3-4	100 MHz
	2-3	1-2	2-3	120 MHz
	2-3	1-2	3-4	133 MHz
	1-2	1-2	2-3	150 MHz
	1-2	1-2	3-4	166 MHz
	1-2	2-3	3-4	200 MHz
	JP6	1-2	16-bit (Wide) SCSI	
2-3		8-bit		
JP8	1-2	Acer BIOS logo		
	2-3	No logo		
JP9	1-2	Check password		
	2-3	Bypass		
JP10	1-2	Buzzer		
	2-3	Speaker		
JP11	1-2	Front panel reset enabled		
JP12	2-3	256K BIOS enabled (fixed setting)		
CN16	1-2	Keylock		
	3-5	Power LED		
	7-10	Speaker		
	12-13	Green (Turbo)LED		
	15-17	Turbo switch		
	19-20	Reset		

M9B

Jumper	Position	Function
JP1	1-2	Check password
	2-3	Bypass
JP2	1-2	Acer BIOS logo
	2-3	OEM
JP3	1-2	SCSI terminator on
	2-3	BIOS settings
JP4	1-2	Wide SCSI
	2-3	Narrow SCSI
JP5	1-2	Enable hardware reset
JP6	1-2	Buzzer
	2-3	Speaker

CPU/Memory Board

Jumper	Position	Function
CN1	1-5,2-6,3-7,4-8	2x CPU
	1-5,2-6,4-8	3x
	1-5,2-6,3-7	4x
	1-5,2-6	2.5x

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
	2-6,4-8				3.5x
CN2 (CPU 1)	1-5	2-6	3-7	4-8	<b>CPU 1 &amp; 2 Voltage</b>
CN3 (CPU 2)	Short	Short	Short	Short	3.5v
	Short	Short	Short	Open	3.4v
	Short	Short	Open	Short	3.3v
	Short	Short	Open	Open	3.2v
	Short	Open	Short	Short	3.1v
	Short	Open	Short	Open	3v
	Short	Open	Open	Short	2.9v
	Short	Open	Open	Open	2.8v
	Open	Short	Short	Short	2.7v
	Open	Short	Short	Open	2.6v
	Open	Short	Open	Short	2.5v
	Open	Short	Open	Open	2.4v
	Open	Open	Short	Short	2.3v
	Open	Open	Short	Open	2.2v
	Open	Open	Open	Short	2.1v
	Open	Open	Open	Open	No CPU
J16	1-2				66 MHz host clock
	2-3				60 MHz

### M9N

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Enable software control for CN4 (power supply)
	2-3	Disable
JP2	1-2	Branded BIOS type
	2-3	Generic
JP3	1-2	Check password
	2-3	Bypass
JP4	1-2	SCSI Channel 1 High-byte termination always on
	2-3	Software control
	Open	Off
JP5	1-2	Normal (Auto VGA)
	2-3	Disable onboard VGA

### CPU/Memory Board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2,3-4,5-6,7-8	2x CPU
	1-2,3-4,7-8	3x
	1-2,3-4,5-6	4x
	1-2,3-4	2.5x
	1-2,7-8	3.5x
JP2	1-2	ITP CPU 1
	2-3	ITP CPU 2
JP5	1-2	66 MHz Host bus
	2-3	60 MHz

### M11A

#### Pentium Pro

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J4	1-2	128K Flash ROM
	2-3	256K Flash ROM
J5	1-2	Check password
	2-3	Bypass

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
J6	Open	Narrow SCSI			
	1-2	Wide SCSI			
J9	1-2	60 MHz host clock			
	2-3	66 MHz			
J10	Open	SCSI terminator off			
	1-2	On			
	2-3	BIOS settings			
J13	1-2	Buzzer			
	2-3	Speaker			
CN13	1-5,2-6,3-7,4-8	2x CPU			
	1-5,2-6,4-8	3x			
	1-5,2-6,3-7	4x			
	1-5,2-6	5x			
	2-6,3-7,4-8	2.5x			
CN14	1-5	2-6	3-7	4-8	<b>CPU Voltage</b>
	Short	Short	Short	Short	3.5v
	Short	Short	Short	Open	3.4v
	Short	Short	Open	Short	3.3v
	Short	Short	Open	Open	3.2v
	Short	Open	Short	Short	3.1v
	Short	Open	Short	Open	3v
	Short	Open	Open	Short	2.9v
	Short	Open	Open	Open	2.8v
	Open	Short	Short	Short	2.7v
	Open	Short	Short	Open	2.6v
	Open	Short	Open	Short	2.5v
	Open	Short	Open	Open	2.4v
	Open	Open	Short	Short	2.3v
	Open	Open	Short	Open	2.2v
Open	Open	Open	Short	2.1v	
JMP1	1-2	Reset			
	2-3	Enable SMM			

V12LC

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Acer BIOS
	2-3	OEM
JP2	1-2	Check password
	2-3	Bypass
JP3	1-2	Flash ROM
	2-3	EPROM
JP4,5	1-2	ECP DMA1 using DRQ1 and DACK1
	2-3	ECP DMA3 using DRQ3 and DACK3
JP6	1-2	Disable onboard I/O
JP7	1-2	Disable onboard VGA
JP8	1-4	50 MHz host clock
	2-5	60 MHz host clock
	3-6	66 MHz host clock
JP9	1-2	Disable EIDE
	2-3	Enable
JP11	1-2	No delay for M1451
	2-3	Delay ADS# by 1 CPU clock cycle
JP12	1-2	P54C or K5
	2-3	Cyrix M1
JP13	1-2	3.38v CPU
	2-3	3.52v CPU
JP14	1-2	3/2 clock frequency

Switch	Position	Function
	2-3	2/1
JP15	1-2	Reset switch in suspend mode
	2-3	As reset switch
CN6	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

### V12LC-2X

Switch	Position	Function			
JP1	1-2	Acer BIOS			
	2-3	OEM			
JP2	1-2	Check password			
	2-3	Bypass			
JP3	Open	SST 29EE010 BIOS ROM			
	1-2	EPROM			
	2-3	Flash ROM (Intel 28F010, 28F001, 28F101)			
JP6	1-2	Disable onboard I/O			
JP8	1-4	50 MHz host clock			
	2-5	60 MHz host clock			
	3-6	66 MHz host clock			
JP12	1-2	P54C or K5			
	2-3	Cyrix M1			
JP13	1-2	3.38v CPU			
	2-3	3.52v CPU			
JP14,18	<b>JP14</b>	<b>JP18</b>	<b>Intel</b>	<b>M1/K5</b>	<b>Clock Ratio</b>
	1-2	1-2	3/2	3/2,2/2,3/1	
	2-3	1-2	2/1	1/1	
	1-2	2-3	3/1	3/2,2/2,3/1	
	2-3	2-3	5/2	1/1	
JP15	1-2	Reset switch in suspend mode			
	2-3	As reset switch			
JP16,17	1-2	CN1 as feature connector			
	2-3	CN1 as 12C interface			
JP19	Open	Reserved (HD LED)			
JP20	1-2	Programming boot block			
	2-3	Normal			
CN6	1-2	Keylock			
	3-5	Power LED			
	7-10	Speaker			
	12-13	Green mode			
	15-18	Turbo			
	19-20	Reset			

### V20

Switch	Position	Function
JP1	1-2	Check password
	2-3	Bypass
JP2	1-2	Acer BIOS
	2-3	OEM
JP3	3-4	Reserved
JP4	1-2,3-4,5-6	Reserved
JP6	2-3	Reserved

Switch	Position	Function	
JP7	2-3	Reserved	
JP8	1-2	Enable M5115	
	2-3	Disable	
JP10	1-2	Reserved	
JP9,20	<b>JP9</b>	<b>JP20</b>	<b>CPU Type</b>
	1-2	2-3	P24D/P24T (Overdrive)
	2-3	1-2	486-S
JP11	1-2	Local IDE I/O address 0FXH	
	2-3	Local IDE I/O address 07XH	
JP12	1-2	Disable local IDE	
	2-3	Enable	
JP22	1-2	DX4 3x	
	2-3	2.5x	
	3-4	2x	
JP23	1-2	Enable reset button	
	2-3	Disable	
JP24	1-2	Reset becomes Suspend	
	2-3	Normal	

CPU	JP17	JP21	JP26	JP27
25 MHz	1-5	2-3	1-2	1-2
33 MHz	2-6	2-3	1-2	1-2
50 MHz	1-5	2-3	1-2	1-2
66 MHz	2-6	2-3	1-2	1-2
100 MHz	2-6	2-3	1-2	1-2
Am 66 MHz	2-6	2-3	2-3	2-3
Am 100 MHz	2-6	2-3	2-3	2-3

V30-1

Switch	Position	Function		
JP1	Open	Reserved		
JP2	Open	LPT Normal		
	Closed	LPT ECP		
JP3	1-2	DRQ3 for LPT ECP		
	2-3	DRQ1		
JP4	1-2	DACK3 for LPT ECP		
	2-3	DACK1		
JP5	Open	Disable PS/2 mouse (IRQ 12)		
	Closed	Enable		
JP6	1-2	Enable SMC 665		
JP7	1-2	Check password		
	2-3	Bypass		
JP9	Closed	Reserved		
JP10	Closed	Reserved		
JP11,13	<b>JP11</b>	<b>JP13</b>	<b>CN13</b>	<b>CPU Frequency</b>
CN13	1-2	1-2	1-4,2-5	75 MHz
	2-3	1-2	1-4,3-6	90 MHz
	2-3	1-2	2-5	100 MHz
	2-3	2-3	1-4,3-6	120 MHz
	2-3	2-3	2-5	133 MHz
JP12	2-3			Reserved
JP15	1-2			Clear RTC
	2-3			Normal
JP16	1-2NetWare 3x has 5 areas			Reserved
JP17	Open			Reserved
JP19	Closed			Reserved



Switch	Position	Function
JX21	1-2	VR or standard CPU (3.3v)
	2-3	VRE CPU (3.6v)
CN16	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

### V30-2

Switch	Position	Function
JP1	Open	Reserved
JP2	Open	LPT Normal
	Closed	LPT ECP
JP3	1-2	DRQ3 for LPT ECP
	2-3	DRQ1
JP4	1-2	DACK3 for LPT ECP
	2-3	DACK1
JP5	Open	Disable PS/2 mouse (IRQ 12)
	Closed	Enable
JP6	1-2	Enable SMC 665
	2-3	Disable
JP7	1-2	Check password
	2-3	Bypass
JP8	1-2	Acer BIOS
	2-3	OEM
JP9	Open	Reserved
JP10	1-2	Reserved
JP11	Open	Reserved
JP12	1-2	Reserved
JP15	1-2	Clear RTC
JP18	1-2	Reserved
JP19	Open	Reserved
JP22	Closed	Reserved
JP20	1-2	VR or standard CPU (3.3v)
	2-3	VRE CPU (3.6v)
CN16	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

CPU	JP13	JP14	JP15	CN12
75 MHz	1-2	1-2	1-2	1-3,2-4
90 MHz	2-3	1-2	1-2	1-3
100 MHz	2-3	1-2	1-2	2-4
120 MHz	2-3	1-2	2-3	1-3
133 MHz	2-3	1-2	2-3	2-4
150 MHz	2-3	2-3	2-3	1-3
166 MHz	2-3	2-3	2-3	2-4

V35

Switch	Position	Function
JP1	1-2	Check password
	2-3	Bypass
JP3	1-2	64 Mb cacheable memory
	2-3	512 Mb
JP5	1-2	3.3v CPU
	2-3	3.6v CPU
JP7	1-2	Disable L2 cache
	2-3	256K
JP10	1-2	Enable SMI switch
	2-3	Enable reset switch
CN16	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

CPU	JP4	JP8	JP9	CN12
75 MHz	1-2	1-2	1-2	1-3,2-4
90 MHz	2-3	1-2	1-2	2-4
100 MHz	2-3	1-2	1-2	1-3
120 MHz	2-3	2-3	1-2	2-4
133 MHz	2-3	2-3	1-2	1-3
150 MHz	2-3	2-3	2-3	2-4
166 MHz	2-3	2-3	2-3	1-3
200 MHz	2-3	1-2	2-3	1-3

V35N

Switch	Position	Function
CN10, 11,X1	<b>CN10</b>	<b>CPU Type</b>
	1-3,2-4	P54C
	Open	P55C
JP1	1-2	Check password
	2-3	Bypass
JP2	1-2	Acer BIOS logo
	2-3	OEM
JP3	1-2	64 Mb cacheable memory
	2-3	512 Mb
JP5	1-2	3.3v CPU
	2-3	3.6v CPU
JP6	1-2	60 MHz DRAM refresh rate
	2-3	66 MHz
JP7	1-2	Disable L2 cache
	2-3	256K
JP10	1-2	Enable SMI switch
	2-3	Enable reset switch
CN16	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

CPU	JP4	JP5	JP8	JP9	CN12
75 MHz	1-2	1-2	1-2	1-2	1-3,2-4
90 MHz	2-3	1-2	1-2	1-2	2-4
100 MHz	2-3	2-3	1-2	1-2	1-3
120 MHz	2-3	1-2	2-3	1-2	2-4
133 MHz	2-3	2-3	2-3	1-2	1-3
150 MHz	2-3	1-2	2-3	2-3	2-4
166 MHz	2-3	2-3	2-3	2-3	1-3
200 MHz	2-3	2-3	1-2	2-3	1-3
233 MHz	2-3	2-3	1-2	1-2	1-3

### V50LA-N

Switch	Position	Function			
JP2	1-2	Acer BIOS logo			
	2-3	OEM			
JP3	1-2	Check password			
	2-3	Bypass			
JP4	1-2	Enable Flash ROM boot block			
	2-3	Disable			
JP5	1-2	Reserved			
	2-3	Flash ROM (Intel 28F001)			
	3-4	Flash ROM (SST, Winbond 29EE010)			
JP6	1-4	50 MHz host clock			
	2-5	60 MHz			
	3-6	66 MHz			
JP7,8	JP7	JP8	L2 cache		
	1-2	1-2	256K		
	1-2	2-3	512K		
	2-3	2-3	1 Mb		
JP9	1-2	P54C or K5			
	2-3	Cyrix M1			
JP10,11	<b>JP10</b>	<b>JP11</b>	<b>Intel</b>	<b>M1/K5</b>	<b>Clock Ratio</b>
	1-2	1-2	3/2	3/1	
	1-2	2-3	2/1	2/1	
	2-3	1-2	3/1		
JP12	2-3	2-3	5/2		
	1-2		3.38v CPU		
CN16	2-3		3.52v CPU		
	1-2		Keylock		
CN16	3-5		Power LED		
	7-10		Speaker		
	12-13		Green mode		
	15-18		Turbo		
	19-20		Reset		

### V55-2

Switch	Position	Function	
SW1-2	<b>SW1</b>	<b>SW2</b>	<b>CPU Clock Ratio</b>
	On	Off	3x
	On	On	2.5x
	Off	On	2x
SW3-4	Off	Off	1.5x
	<b>SW3</b>	<b>SW4</b>	<b>Host bus clock</b>
	On	Off	66 MHz
	Off	On	60 MHz
JP4	On	On	50 MHz
	1-2		EPROM

Switch	Position	Function
	2-3	Flash ROM
JP5	1-2	NC ROM
	2-3	29EE010
	3-4	28F001
JP6	1-2	3.2v CPU core
	2-3	2.8v (P55C)
JP7	1-2	3.5v CPU I/O voltage
	2-3	3.3v
JP8,9	1-2	512K cache
	2-3	256K cache
JP10	2-3	Reserved
JP11	Open	Normal
	Closed	Clear CMOS (No jumper, just short pads)
CN16	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

### V55LA

Jumper	Position	Function	
SW2/1-2	<b>1</b>	<b>2</b>	<b>Host clock frequency</b>
	On	On	50 MHz
	On	Off	60 MHz
	Off	On	66 MHz
SW2/3-4	<b>3</b>	<b>4</b>	<b>Intel M1 K5 Clock Ratio</b>
	On	On	5/2 1/1 2/1
	Off	Off	3/2 3/1 3/2
	On	Off	2/1 2/1 -
	Off	On	3/1 4/1 -
SW2/5	On	Disable onboard sound	
SW2/6	On	Bypass password	
	Off	Check password	
JP1	1-2	Acer BIOS	
	2-3	OEM	
JP2	1-2	LED for IDE and FDD	
	2-3	IDE only	
JP3,4	<b>JP3</b>	<b>JP4</b>	<b>Cache size</b>
	1-2	1-2	256K
	1-2	2-3	512K
	2-3	2-3	1 Mb
JP5	1-2	Allow boot block programming	
	2-3	Normal	
JP6	1-2	Flash ROM (28F010)	
	2-3	EPROM	
	Open	Block Flash EPROM (SST 29EE010)	
JP7	Closed	Single voltage CPU	
	Open	Dual voltage	
JP11	1-2	SMM switch	
	2-3	Reset switch	
	3-4	Additional reset switch	
JP16	1-2	UPS enabled for software shutdown	
	2-3	Disabled	
JP42	1-2	L2 cache Intel/M1 1+4 mode	
	2-3	L2 cache M1 Linear Burst mode	
JP43	1-2	3.5v CPU I/O voltage	
	2-3	3.3v	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP44	1-2	2.5v CPU core voltage
	2-3	2.8v
CN19	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

### V55LA-2

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
SW2/1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU Frequency</b>
Intel	On	On	Off	Off	75 MHz
	On	Off	Off	Off	90 MHz
	Off	On	Off	Off	100 MHz
	On	Off	On	Off	120 MHz
	Off	On	On	Off	133 MHz
	On	Off	On	On	150 MHz
	Off	On	On	On	166 MHz
Off	On	Off	On	200 MHz	
Cyrilx/IBM M1	On	On	On	Off	P120+
	On	Off	On	Off	P150+
	Off	On	On	Off	P166+
Cyrilx M2	Off	On	On	On	PR166
	On	Off	Off	On	PR180
	Off	On	Off	On	PR200
	On	On	On	On	PR200
AMD K5	On	On	Off	Off	PR75
	On	Off	Off	Off	PR90
	Off	On	Off	Off	PR100
	On	Off	On	Off	PR120
	Off	On	On	Off	PR133
	Off	On	On	On	PR166
AMD K6	Off	On	On	On	PR166
	Off	On	Off	On	PR200
	Off	On	Off	Off	PR233
SW2/5	On				Disable onboard sound
SW2/6	On				Bypass password
	Off				Check password
JP1	1-2				Acer BIOS
	2-3				OEM
JP2	1-2				LED for IDE and FDD
	2-3				IDE only
JP3,4	<b>JP3</b>	<b>JP4</b>			<b>Cache size</b>
	1-2	1-2			256K
	1-2	2-3			512K
	2-3	2-3			1 Mb
JP7	Closed				Single voltage CPU
	Open				Dual voltage
JP11	1-2				SMM switch
	2-3				Reset switch
	3-4				Additional reset switch
JP16	1-2				UPS enabled for software shutdown
	2-3				Disabled
JP43	1-2				3.5v CPU I/O voltage
	2-3				3.3v
JP44	1-2				2.5v CPU core voltage

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	2.8v
CN19	1-2	Keylock
	3-5	Power LED
	7-10	Speaker
	12-13	Green mode
	15-18	Turbo
	19-20	Reset

V56LA

<i>Jumper</i>	<i>Position</i>							<i>Function</i>
JP8-9	<b>JP8</b>	<b>JP9</b>	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP17</b>	<b>CPU Frequency</b>	
JP13-15	3-6	On	1-2	1-2	1-2	1-2	100 MHz	
JP17	2-5	On	1-2	1-2	1-2	2-3	120 MHz	
Intel	3-6	On	1-2	1-2	1-2	1-2	133 MHz	
	2-5	On	1-2	1-2	2-3	2-3	150 MHz	
	3-6	On	1-2	1-2	2-3	2-3	166 MHz	
	3-6	On	1-2	1-2	2-3	1-2	200 MHz	
Intel	3-6	Off	1-2	1-2	2-3	2-3	166 MHz	
MMX	3-6	Off	1-2	1-2	2-3	1-2	200 MHz	
Cyrix 6x86	1-4	On	1-2	1-2	2-3	2-3	P120+	
	2-5	On	1-2	1-2	2-3	2-3	P150+	
	3-6	On	1-2	1-2	2-3	2-3	P166+	
Cyrix 6x86L	1-4	Off	1-2	1-2	2-3	2-3	P120+	
	2-5	Off	1-2	1-2	2-3	2-3	P150+	
	3-6	Off	1-2	1-2	2-3	2-3	P166+	
AMD K5	2-5	On	1-2	1-2	1-2	1-2	PR120	
	3-6	On	1-2	1-2	1-2	1-2	PR133	
AMD K6	2-5	On	1-2	1-2	1-2	2-3	PR150	
	3-6	On	2-3	2-3	2-3	2-3	PR166	
JP1	1-2						Disable VGA	
	2-3						Enable	
JP3	1-2						Acer BIOS	
	2-3						OEM	
JP4	1-2						Check password	
	2-3						Bypass	
JP6	1-2						256K cache	
	2-3						512K cache	
JP7	1-2						1 Mb BIOS ROM	
	2-3						2 Mb BIOS ROM	
JP16	1-2						L2 cache Interleave mode	
	2-3						L2 cache Linear Burst mode	
JP18	1-2						CN20 LED for IDE and FDD	
	2-3						IDE only	
JP19	1-2						19-20 of CN17 suspend/resume	
	2-3						As reset button	
JP20	1-2						UPS enabled (CN21)	
	2-3						Disabled	
JP3001	2-3						Reserved	
CN19	1-2						Keylock	
	3-5						Power LED	
	7-10						Speaker	
	12-13						Green mode	
	15-18						Turbo	
	19-20						Reset	

## V58-1X

<i>Jumper</i>	<i>Position</i>					<i>Function</i>
S1-3	<b>JP14</b>	<b>JP15</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>CPU Frequency</b>
JP14,15	1-3,2-4	3-5,4-6	Off	Off	Off	90 MHz
Intel	3-5,4-6	3-5,4-6	Off	Off	Off	100 MHz
	1-3,2-4	3-5,4-6	On	Off	Off	120 MHz
	3-5,4-6	3-5,4-6	On	Off	Off	133 MHz
	1-3,2-4	3-5,4-6	On	On	Off	150 MHz
	3-5,4-6	3-5,4-6	On	On	Off	166 MHz
	3-5,4-6	3-5,4-6	Off	On	Off	200 MHz
	3-5,4-6	3-5,4-6	Off	Off	Off	233 MHz
Cyrix 6x86	1-3,2-4	3-5,4-6	On	Off	Off	P150+
	3-5,4-6	3-5,4-6	On	Off	Off	P166+
Cyrix M2	3-5,4-6	3-5,4-6	On	On	Off	PR166
	1-3,2-4	3-5,4-6	Off	On	Off	PR180
	3-5,4-6	3-5,4-6	Off	On	Off	PR200
AMD K6	3-5,4-6	3-5,4-6	3-5,4-6	On	On	PR166
	3-5,4-6	3-5,4-6	3-5,4-6	On	Off	PR200
	3-5,4-6	3-5,4-6	3-5,4-6	Off	Off	PR233
S4	On					Check password
	Off					Bypass
JP1,15	JP1	JP15				Power supply type
	1-3,2-4	1-2				Traditional power supply
	3-5,4-6	2-3				Resume power supply
JP2	1-2					LED for IDE & FDD
	2-3					IDE only
JP4	1-2					L2 cache Interleave/1+4 mode
	2-3					L2 cache Linear Burst mode
JP5	1-2					12v for MXIC BIOS program
	2-3					5v for SST, ATMEL
	3-4					Reserved
JP6	2-3					Reserved
JP7	1-2					Monitor 3.2v CPU core voltage
	3-4					Monitor 2.9v CPU core voltage
	5-6					Monitor 2.8v CPU core voltage
JP8	1-3,2-4					Dual voltage CPU (P55C, K6, 6x86L)
	3-5,4-6					Single voltage CPU
JP9	1-2					Monitor 3.5v CPU I/O voltage
	3-4					Monitor 3.3v CPU I/O voltage
JP10	2-3					Reserved
JP11	1-2					3.3v CPU core voltage
	3-4					2.8v
	5-6					2.9v
	7-8					3.2v
	9-10					3.5v
	11-12					2.1v
	13-14					Reserved

## V58LA

<i>Jumper</i>	<i>Position</i>					<i>Function</i>
S1/4,5	<b>JP14</b>	<b>JP15</b>	<b>CN23</b>	<b>S1/4</b>	<b>S1/5</b>	<b>CPU Frequency</b>
JP14,15	1-3,2-4	1-3,2-4	1-3,2-4	Off	Off	90 MHz
Intel	1-3,2-4	3-5,4-6	1-3,2-4	Off	Off	100 MHz
	1-3,2-4	1-3,2-4	1-3,2-4	Off	On	120 MHz
	1-3,2-4	3-5,4-6	1-3,2-4	Off	On	133 MHz
	1-3,2-4	1-3,2-4	1-3,2-4	On	On	150 MHz

<i>Jumper</i>	<i>Position</i>				<i>Function</i>	
	1-3,2-4	3-5,4-6	1-3,2-4	On	On	166 MHz
	1-3,2-4	3-5,4-6	1-3,2-4	On	Off	200 MHz
	1-3,2-4	3-5,4-6	3-5,4-6	On	On	166 MHz MMX
	1-3,2-4	3-5,4-6	3-5,4-6	On	Off	200 MHz MMX
	1-3,2-4	3-5,4-6	3-5,4-6	Off	Off	233 MHz MMX
Cyrix 6x86	1-3,2-4	1-3,2-4	1-3,2-4	Off	On	P150+
	1-3,2-4	3-5,4-6	1-3,2-4	Off	On	P166+
Cyrix 6x86L	1-3,2-4	1-3,2-4	3-5,4-6	Off	On	P150+
	1-3,2-4	3-5,4-6	3-5,4-6	Off	On	P166+
AMD K5	1-3,2-4	1-3,2-4	1-3,2-4	Off	Off	PR90
	1-3,2-4	3-5,4-6	1-3,2-4	Off	Off	PR100
	1-3,2-4	1-3,2-4	1-3,2-4	Off	On	PR120
	1-3,2-4	3-5,4-6	1-3,2-4	Off	On	PR133
	1-3,2-4	3-5,4-6	1-3,2-4	Off	On	PR166
AMD K6	1-3,2-4	3-5,4-6	3-5,4-6	On	On	PR166
	1-3,2-4	3-5,4-6	3-5,4-6	On	Off	PR200
	1-3,2-4	3-5,4-6	3-5,4-6	Off	Off	PR233
S1	On					Bypass password
	Off					Check password
S2	On					Disable onboard sound
S3	On					Disable onboard LAN
S4	On					Cypress CY2273
	Off					CLK 9148
JP1	1-2					Acer BIOS
	2-3					OEM
JP2	1-2					LED for IDE & FDD
	2-3					IDE only
JP3	1-2					Suspend
	2-3					Reset
JP5	1-2					L2 cache Interleave/1+4 mode (Intel/Cyrix M1/M2)
	2-3					L2 cache Linear Burst mode (Cyrix M1/M2)
JP10	1-2					Standby power supply -> 1A
	2-3					Standby power supply < 1A
CN23	1-3,2-4					Single voltage CPU
	3-5,4-6					Dual voltage CPU
CN36	1-2					2.8v CPU core voltage
	3-4					2.9v
	5-6					3.2v
	7-8					3.31v
	9-10					3.52v

V60N

<i>Switch</i>	<i>Position</i>				<i>Function</i>
JP1	1-2				Check password
	2-3				Bypass
JP3	1-2				Acer BIOS
	2-3				OEM
JP4	1-2				128K Flash ROM
	2-3				256K Flash ROM
JP9-10	<b>JP9</b>	<b>JP10</b>	<b>JP12</b>	<b>JP13</b>	<b>CPU voltage</b>
12-13	2-3	2-3	2-3	2-3	3.5v
	2-3	2-3	2-3	1-2	3.4v
	2-3	2-3	1-2	2-3	3.3v
	1-2	1-2	2-3	2-3	3.2v
	2-3	2-3	1-2	1-2	3.1v
	1-2	2-3	2-3	2-3	3v
	1-2	2-3	2-3	1-2	2.9v
	1-2	2-3	1-2	2-3	2.8v



Switch	Position				Function
	2-3	1-2	2-3	2-3	2.7v
	1-2	2-3	1-2	1-2	2.6v
	2-3	1-2	1-2	1-2	2.5v
JP11	1-4				Software shutdown
	2-5				External SMI
	3-6				Reset
JP15	1-2				12v BIOS
	2-3				5v BIOS

CPU	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
150 MHz	On	Off	Off	Off	On	Off	On	On
166 MHz	Off	On	Off	Off	On	Off	On	On
180 MHz	On	Off	Off	Off	On	On	Off	On
200 MHz	Off	On	Off	Off	On	On	Off	On

### V65LA

As for V65X, except:

Switch	Position	Function
CN16	3-5	Power LED
	12-13	Turbo LED
	19-20	Reset

### V65X

Switch	Position				Function
SW1	On				60 MHz host
	Off				66 MHz
SW2	On				Bypass password
	Off				Check password
SW3	On				OEM BIOS
	Off				Acer BIOS
SW5-8	<b>SW5</b>	<b>SW6</b>	<b>SW7</b>	<b>SW8</b>	<b>CPU speed</b>
	On	Off	Off	On	233 MHz
	Off	On	On	On	266 MHz
	Off	On	Off	On	300 MHz
CN12	3-5				Power LED
	12-13				Turbo LED
	19-20				Reset

### X1B

Dual Pentium Pro

Jumper	Position				Function
JP2-5	<b>J5/10</b>	<b>J4/9</b>	<b>J3/8</b>	<b>J2/7</b>	<b>CPU 1 &amp; 2 Voltage</b>
7-10	Short	Short	Short	Short	3.5v
	Short	Short	Short	Open	3.4v
	Short	Short	Open	Short	3.3v
	Short	Short	Open	Open	3.2v
	Short	Open	Short	Short	3.1v
	Short	Open	Short	Open	3v
	Short	Open	Open	Short	2.9v
	Short	Open	Open	Open	2.8v
	Open	Short	Short	Short	2.7v
	Open	Short	Short	Open	2.6v
	Open	Short	Open	Short	2.5v
	Open	Short	Open	Open	2.4v

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
	Open	Open	Short	Short	2.3v
	Open	Open	Short	Open	2.2v
	Open	Open	Open	Short	2.1v
	Open	Open	Open	Open	No CPU
J12	1-2				60 MHz host bus
	2-3				66 MHz host bus
J13	Open				Narrow SCSI
	Closed				Wide SCSI
J14	Open				Reserved
J15	2-3				Reserved
J16	1-2				Termination on
	2-3				Use BIOS settings
J18	1-2				Check password
	2-3				Bypass
J19	1-2				Acer BIOS logo
	2-3				OEM BIOS logo
CN15	1-5,2-6,3-7,4-8				2x CPU
	1-5,2-6,4-8				3x
	1-5,2-6,3-7				4x
	1-5,2-6				5x
	2-6,3-7,4-8				2.5x
	2-6,4-8				3.5x
J1501	1-2				Buzzer
	2-3				Speaker

### X3

#### Quad Pentium Pro

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JPX1-3			Reserved
JP1, 2			Reserved
JP3	1-2,3-4,5-6,7-8		2x CPU
	1-2,3-4,7-8		3x
	1-2,3-4,5-6		4x
	1-2,3-4		5x
	3-4,5-6,7-8		2.5x
	3-4,7-8		3.5x
JP4,5	<b>JP4</b>	<b>JP5</b>	<b>Group 2 CPUs (2 &amp; 4)</b>
	2-3	Open	2 only
	1-2	1-2	4 only
	1-2	2-3	2 & 4
JP6,7	<b>JP6</b>	<b>JP7</b>	<b>Group 1 CPUs (1 &amp; 3)</b>
	2-3	Open	1 only
	1-2	1-2	3 only
	1-2	2-3	1 & 3
JP8,9	<b>JP8</b>	<b>JP9</b>	<b>Groups 1 &amp; 2</b>
	2-3	1-2	1 only
	1-2	2-3	2 only
	2-3	2-3	1 & 2
JP11	1-2		Check password
	2-3		Bypass password
JP12			Reserved
JP13	1-2		Enable onboard VGA
	2-3		Disable
JP14			Reserved
JP15	1-2		60 MHz host clock
	2-3		66 MHz host clock
	Open		50 MHz host clock

## Achitec Corp

www.achitec.com.tw

## Achme Computer

www.achme.com

### 486 AL4

PCI/ILB

Jumpers	Position						Function
JC1,4,6 7,8,13	<b>JC1</b>	<b>JC4</b>	<b>JC6</b>	<b>JC7</b>	<b>JC8</b>	<b>JC13</b>	<b>CPU Type</b>
	2-3	2-3	2-3	2-3	2-3	1-2	Intel/AMD SX
	2-3	3-4	2-3	2-3	2-3	1-2	Intel SX SL
	1-2,3-4	2-3	2-3	2-3	2-3	1-2	Intel/AMD DX/DX2
	1-2,3-4	3-4	2-3	2-3	2-3	1-2	Intel DX/DX2 SL
	1-2,3-4	1-2,3-4	2-4	2-4	1-2	2-3	Curix M7 (+JC11 3)
JK1,2	<b>JK1</b>	<b>JK2</b>					<b>CPU Speed</b>
	1,2	1,2,3					25 MHz
	1,3	1,2,3					33 MHz
	2	4,5,6					40 MHz
JS1,2	<b>JS1</b>	<b>JS2</b>					<b>Cache Size</b>
	1-2	2-3					128K (32Kx8)
	2-3	1-2					256K ((32Kx8)
	2-3	2-3					256K (64Kx8)
JV1-3	<b>JV1</b>	<b>JV2</b>	<b>JV3</b>				<b>VL Bus</b>
	2-3	1-2	1-2				<=33 MHz
	2-3	2-3	1-2				> 33 MHz
JP4,12	<b>JP4</b>	<b>JP12</b>					<b>PCI IDE</b>
	In	1-2					Rising Edge trigger
	In	2-3					Falling edge trigger
	In	Out					Low Active lever trigger
	In	2-3					Low Active level trigger
	In	Out					No PCI add-in card
							Use above with BIOS settings
JP6	1-2						Non-NCR 53C810 PCI SCSI
	2-3						NCR 53C810
JP20	1-2						12v Flash Memory
	2-3						5v Flash Memory
	None						Normal

## Acme

Maybe same as Achme

## ACORP International

www.acorp.com.tw

### Award BIOS ID (00)

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C	PT-51VL	AC	SD-P5TD
9C	586VX/5VIA5S	BC	5VX32 vB/5TX52 vE
9C	5TX32		

[586VX](#)

San-Li SL-586V?

[5VX32 ver B](#)

San-Li SL-586V+?

[Acouire, Inc](#)

[Acro Computer Corp](#)

[Acrosser Technology Co](#)

www.acrosser.com

[Activei Systems Inc](#)

Pride Corp

www.pridecorp.com www.activei.com

[Acusharp](#)

[Award BIOS ID](#)

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
HC-00	Excalibur TX 1569		

[Excalibur TX 1569](#)

Same as Shuttle HOT 569

[Adcom](#)

[ADI](#)

[Award BIOS ID](#)

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
8C-00	4DXP-UC5		

[Adlink Technology Ltd](#)

www.adlink.com.tw

[Advanced Integration Research \(AIR\)](#)

See AIR. Out of business, anyway

[Advanced Jenn Bao Enterprises](#)

www.ajb.com.tw

## Advanced Logic Research

See ALR

## Advanced Micro Products (AMP)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	SD-380H		

### SD-380H

Freetech?

## Advantech

www.advantech.com.tw

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC-00	PCM 5862		

## AEG Olympia

### Olystar 20F

#### SW1

Jumper	Position	Function
1	On*	Enable COM1
2		Reserved
3	Off	Enable RTC 1
	On	Enable RTC 0
4	Off	Disable IRQ2
	On	Enable IRQ2

#### SW2

Jumper	Position	Function
S1	Off*	Enable floppies
	On	Disable floppies
S2	Off	8087 installed
	On	8087 not installed
S3-4	<b>Memory</b>	<b>S3</b> <b>S4</b>
	256K	Off      Off      Bank 1
	512K	On      Off      Banks 1,2
	640K	Off      On      Banks 1,2,3
	Do not use	On      On
768K model has 3&4 set off and On. Also set SW3-5 off and SW3-6 On.		
S5		Reserved
S6	Off	Enable Onboard display
	On	Disable Onboard display
S7-8	Floppy	S7      S8

Jumper	Position	Function	
	Single	On	On
	Dual	Off	On

## SW3

Switch	Position	Function			
S1-4	<b>Bank Address</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>
	C0000-C3FFF	On	On	On	On
	C4000-C7FFF	On	On	On	On
	C8000-CBFFF	On	Off	On	On
	CC000-CFFFF	Off	Off	On	On
	D0000-D3FFF	On	On	Off	On
	D4000-D7FFF	Off	On	Off	On
	D8000-DBFFF	On	Off	Off	On
	DC000-DFFFF	Off	Off	Off	On
	E0000-E3FFF	On	On	On	Off
	E4000-E7FFF	Off	On	On	Off
	E8000-EBFFF	On	Off	On	Off
	EC000-EFFFF	Off	Off	On	Off
S5	On	Reserved			
	Off	768K RAM			
S6	On	RAM Bank enable			
	Off*	RAM Bank disable			
S7	On	64K ROM			
	Off	40K ROM			
S8	On	10 MHz			
	Off	4.77 MHz			

## SW4

Jumper	Position	Function
S1		Mono display
S2		Colour display
JP1	A In	Disable Onboard display
	B In	Enable Onboard display

## Olystar 40F

Jumper	Position	Function	
JP4,5	<b>JP4</b>	<b>JP5</b>	<b>Maths copro</b>
	2-3		8087 not there
	1-2	1-2	8087 present
JP6,7	<b>JP6</b>	<b>JP7</b>	<b>MGA mode</b>
	1-2		MGA
	2-3	1-2	CGA
	1-2	2-3	CGA emulate
JP8,9	<b>JP8</b>	<b>JP9</b>	
	2-3		COM1/2&HD
	2-3		Disable COM1
	1-2		Disable COM2
	2-3	1-2	Disable HD
JP10,11	<b>JP10</b>	<b>JP11</b>	<b>EPROM</b>
	2-3		27128
	2-3		27256
	1-2	1-2	27512
JP12,16	<b>JP12</b>	<b>JP16</b>	<b>HD</b>
	1-2		Enable
	1-2	1-2	Disable

## Olystar 60F/H

Jumper	Position	Function		
JA	A	VGA Enabled (B Disabled)		
JC,D	<b>JC</b>	<b>JD</b>		
	A	B	COM1 disable	
	B	B	COM2 disable	
JB,C,D	<b>JB</b>	<b>JC</b>	<b>JD</b>	
	B	B	A	Disk controller disable
	A	A	A	Disk controller enable

## Olystar 60 H16

Jumper	Position	Function		
JP1	Off	System locked		
	On	System unlocked		
JP2	1-2	Coprocessor asynchronous mode		
	2-3	Coprocessor synchronous mode		
JP7,8,10	<b>JP7</b>	<b>JP8</b>	<b>JP10</b>	<b>BIOS Type</b>
	1-2	1-2	1-2	16-bit
	2-3	2-3	2-3	8-bit
	5-6			32K cache
JA1	1-2*	5-6*	64K cache	
	1-2	4-5	128K cache	

## Olystar 70 H20

### VGA Board

Jumper	Position	Function
J1	In	VGA auto setting by BIOS
	Out	VGA disabled
J2	In	VGA connect IRQ9
	Out	VGA disconnect IRQ9
J3	In	VGA BIOS enabled

### Main Board

Jumper	Position	Function
J3	A	Password check enabled
	B	Password check disabled
J4	20	20 MHz
	16	16 MHz
J5	20	DRAM CAS precharge 1/2T
	16	DRAM CAS precharge T

## Olystar 70S

Jumper	Position	Function
J2	In	VGA enabled
J4	In	VGA BIOS enabled
J7	In	Password enabled
J8	In	IRQ9 to Onboard VGA
	Out	IRQ9 to expansion card
J9	In	Oscillator
	Out	External
J14	In	System BIOS only
	Out	VGA and System BIOS combined
J15		CPU speed
J20		MEMCS16

*Olystar 80T33*

## SW1

Switch	Function	Position			
S1-4	<b>EPROM</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>
	27128	On	Off	On	Off
	27256	On*	Off*	Off*	On
	27512	Off	On	Off	On
S5-8	<b>I/O recovery delay</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>
	0	Off	Off	Off	Off
	1	Off	Off	Off	On
	2	Off	Off	On	Off
	3	Off	Off	On	On
	4	Off	On	On	On
	5	Off	On	Off	On
	6	Off	On	On	Off
	8*	On	Off	Off	Off
	9	On	Off	Off	On
	10	On	Off	On	Off
	11	On	Off	On	On
	12	On	On	Off	Off
	13	On	On	Off	On
	14	On	On	On	Off
15	On	On	On	On	

## SW2

Switch	Position			Function			
S1	On*			25-pin=COM1, 9-pin=COM2			
	Off			9-pin=COM1, 25-pin=COM2			
S2	Off*			Enable COM1			
	On			Disable COM1			
S3	Off*			Enable COM2			
	On			Disable COM2			
S4	Off*			Enable Printer Port			
	On			Disable Printer Port			
S5-7	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>Printer Port</b>			
	Off*	Off*	On*	LPT1			
	On	On	Off	LPT2			
S8	Off*			RAM BIOS selected			
	On			ROM BIOS selected			
S9	Off*			Primary display Mono or extended			
	On			Primary display CGA			
S10	Off*			DRAM Bank B enabled			
	On			DRAM Bank B disabled			
JP6-8	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>Maths Copro</b>			
	1-2	1-2	1-2	There			
	2-3*	2-3*	2-3*	Not there			
JP12	1-2*			Remap 256K to FA0000-FDFFFF			
	2-3			Do not remap or permit RAM caching of F00000-FFFFFF			
JP13-16	<b>RAM</b>	<b>Bank</b>	<b>Modules</b>	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>
	2 Mb	A	512 x 9	2-3*	2-3*	1-2*	1-2*
	4 Mb	A&B	512 x 9	2-3	2-3	1-2	1-2
	6 Mb	A	512 x 9	1-2	1-2	1-2	1-2
		B	1M x 9				
	4 Mb	A	1M x 9	1-2	1-2	2-3	2-3
8 Mb	A&B	1M x 9	1-2	1-2	2-3	2-3	

## AIR



## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
FC	54CPI		

## 486ED

EISA

Jumper	Position			Function
J1-3	<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>CPU Type</b>
	Off	Off	2-3	486SX (P23)
	On	1-2	1-2	486DX and 486DX2 (P24)
	On	2-3	1-2	487SX , P23T, OverDrive

## Cache Size

Jumper	64K	128K	256K	512K
JC1	1-2	2-3	2-3	2-3
JC2	1-2	2-3	2-3	2-3
JC3	1-2	1-2	2-3	2-3
JC4	1-2	1-2	1-2	2-3
JC5	1-2	1-2	1-2	2-3
JC6	1-2	1-2	2-3	2-3
JC7	1-2	2-3	2-3	2-3
JP9	2-3	1-2	4-5	1-2

## CPU Clock Frequency

Jumper	20MHz	25MHz	33MHz	50MHz
JO1	Off	On	On	Off
JO2	On	Off	On	Off
JO3	On	On	Off	Off
JO4	On	On	On	Off
JL2	Off	Off	Off	On

## 486EI v1.0

EISAVESA

Jumper	Position			Function
J1-3	<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>CPU Type</b>
	Open	Open	2-3	486SX
	Short	1-2	1-2*	DX, DX2, DX4
	Short	2-3	1-2	487SX, P23T, Overdrive
JO1,2	<b>JO1</b>	<b>JO2</b>	<b>JL2</b>	<b>CPU External Clock</b>
JL2	Short	Short	Open	25 MHz
	Open	Short	Open	33 MHz
	Short	Open	Short	40 MHz
	Open	Open	Short	50 MHz
JP12	1-3,2,4			5v CPU
	3-5,4-6			3.3v CPU
JC4,5	<b>JC4</b>	<b>JC5</b>	<b>JP9</b>	<b>Cache Size</b>
JP9	2-3	1-2	1-2	128K
	1-2	1-2	4-5	256K*
	2-3	2-3	1-2	512K

486EI v1.2

EISAVESA

Jumper	Position			Function
J1-3	<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>CPU Type</b>
J12	Open	Open	2-3	486SX
	Short	2-3	1-2	487SX
	Short	1-2	1-2	DX, DX2
	Short	1-2	1-2	DX4
JO1,2	<b>JO1</b>	<b>JO2</b>	<b>JL2</b>	<b>CPU External Clock</b>
JL2	Short	Short	Open	25 MHz
	Open	Short	Open	33 MHz
	Short	Open	Short	40 MHz
	Open	Open	Short	50 MHz
J12	1-3,2-4			5v CPU
	3-5,4-6			3.3v CPU
JC4,5,9	<b>JC4</b>	<b>JC5</b>	<b>JC9</b>	<b>Cache Size</b>
	1-2	1-2	4-5	256K*
	2-3	2-3	1-2	512K

486MI v1.0

Jumper	Position			Function
JP1-2	<b>JP1</b>	<b>JP2</b>		<b>CPU Type</b>
	1-2,3-4			DX, DX2
	2-3	1-2,3-4		487SX, ODPSX
	Open	2-3		486SX
ID2	1-2			0 wait state write transfer
	2-3*			1 wait state write transfer
JP22-24	<b>JP22</b>	<b>JP23</b>	<b>JP24</b>	<b>IDE recovery time at 33 MHz or less</b>
	2-3	1-2	2-3	9T, Low Speed (Default)
	1-2	2-3	2-3	7T, Middle Speed
	2-3	2-3	2-3	5T, High Speed
	<b>JP22</b>	<b>JP23</b>	<b>JP24</b>	<b>IDE recovery time at 40 MHz or more</b>
	2-3	2-3	1-2	13T, Low Speed
	1-2	1-2	2-3	11T, Middle Speed
	2-3	1-2	2-3	9T, High Speed
JP29	1-2*			Enable onboard VL IDE
	2-3			Disable
JP30	1-2			LPT IRQ7
	2-3			LPT IRQ5

CPU External Clock

Speed	JP5	JP6	JP7	ID3	JP26	JP27	JP28
20 MHz	Short	Open	Open	1-2	2-3	2-3	1-2
25 MHz	Open	Short	Short	1-2	2-3	2-3	1-2
33 MHz	Open	Short	Open	1-2	2-3	2-3	1-2
40 MHz	Open	Open	Short	2-3	1-2	1-2	2-3
50 MHz	Open	Open	Open	2-3	1-2	1-2	2-3

Cache

Size	JP10	JP11	JP12	JP13	JP14	JP15
64K	1-2	1-2	1-2	2-3	1-2	1-2
128K	2-3	1-2	1-2	1-2	1-2	2-3
256K	2-3	2-3	1-2	2-3	2-3	2-3
256K	2-3	2-3	2-3	1-2	1-2	2-3

## 486MI v2.21

<i>Jumper</i>	<i>Position</i>			<i>Function</i>	
JP1-2	<b>JP1</b>	<b>JP2</b>	<b>JP38</b>	<b>CPU Type</b>	
JP38	1-2	1-2,3-4	1-2	DX, DX2	
	1-2	1-2,3-4	Open	DX4	
	Open	2-3	1-2	486SX	
	2-3	1-2,2-3	1-2	487SX, ODPSX,P24T	
JP3	Open			DX4 3x	
	2-3			DX4 2.5x	
	1-2			DX4 2x	
JP5-7	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>ID3</b>	<b>CPU Frequency</b>
ID3	Short	Short	Short	1-2	25 MHz
	Short	Short	Open	1-2	33 MHz*
	Short	Open	Short	2-3	40 MHz
	Short	Open	Open	2-3	50 MHz
JP8	1-2				Enable Fast Gate A20
	2-3				Disable
JP9	1-2				SIM2 not accept 512Kx36, 2Mx36, 8Mx36
JP16	Open				EGA, VGA or mono display
	Short				CGA
JP17	1-2				Normal
	2-3				Enable Flash Programming
JP20	1-2				Normal
	2-3				Clear CMOS
JP22	1-2				Enable onboard IDE
	2-3				Disable
JP23,24	<b>JP23</b>	<b>JP24</b>			<b>IDE Speed</b>
	1-2	1-2			0
	2-3	1-2			2
	1-2	2-3			4
	2-3	2-3			6
JP25-27	<b>JP25</b>	<b>JP26</b>	<b>JP27</b>		<b>LPT ECP mode</b>
	Open	Open	2-3		Disable
	2-3	2-3	1-2		DMA1
	1-2	1-2	1-2		DMA3
JP28					Reserved
JP29					Reserved
JP30	1-2				LPT IRQ7
	2-3				LPT IRQ5
JP30	1-2				LPT IRQ7
	2-3				LPT IRQ5
JP31	1-2				IRQ4 wakes up system
	2-3				IRQ3 wakes up system
JP37					Reserved
ID2	2-3				1 VL bus wait state
	1-2				0 VL bus wait state
W1	1-3,2-4				5v CPU
	3-5,4-6				3.3v CPU

Cache Size	JP10	JP11	JP12	JP13	JP14	JP15
128K	2-3	1-2	1-2	1-2	1-2	2-3
256K*	2-3	2-3	1-2	2-3	2-3	2-3
512K	2-3	2-3	2-3	1-2	1-2	2-3

486MIS

Jumper	Position				Function
JP1-2	<b>JP1</b>	<b>JP2</b>	<b>JP18</b>		<b>CPU Type</b>
JP18	1-2	1-2,3-4	1-2		DX, DX2
	2-3	1-2,3-4	1-2		487SX, ODPSX
	Open	2-3	1-2		486SX
	Open	2-3	2-3		Cyrix 486 DLC
JP3-5	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>ID3</b>	<b>CPU Frequency</b>
ID3	Open	Short	Short	1-2	20 MHz
	Short	Open	Short	1-2	25 MHz
	Short	Short	Open	1-2	33 MHz*
	Open	Open	Short	2-3	40 MHz
	Open	Short	Open	2-3	50 MHz
JP16	Open				EGA, VGA or mono display
	Short				CGA
JP17	Open				Enable onboard VL IDE
JP22	1-2				LPT IRQ7
	2-3				LPT IRQ5
JP28	1-2				Normal
	2-3				Enable Flash Programming
JP29,30	<b>JP29</b>	<b>JP30</b>			<b>IDE recovery time</b>
	Short	Short			300ns
	Open	Short			240ns
	Short	Open			180ns
	Open	Open			120ns
JP32	Open				Normal
	Short				BIOS does infinite loop and clears password – disable SCSI with I2 and E on W1.
W1	I1				IRQ10
I1,2	I2				IRQ11
W1	<b>B1</b>	<b>B2</b>			<b>SCSI BIOS segment location</b>
	B1,2	In	In		DC00
		In	Out		D8000
		Out	Out		Disable
W1E	In				SCSI works
	Out				SCSI doesn't work
ID2	1-2				0 wait state write transfer
	2-3				1 wait state write transfer

Cache Size	JP7	JP8	JP9	JP10	JP11	JP12	JP13	JP14	JP15
64KB	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	2-3
128KB	1-2	1-2	2-3	2-3	2-3	1-2	1-2	1-2	1-2
256KB	2-3	1-2	2-3	2-3	2-3	2-3	2-3	1-2	2-3
512KB	2-3	2-3	2-3	2-3	2-3	1-2	2-3	2-3	1-2

486PH

PCI/VESA

Jumper	Position	Function
JP1	1-2	Normal
	2-3	Clear CMOS (CMOS RAM is in ODIN OEC12C887A)
JP2	Open	VGA, EGA or mono display
	Short	CGA
JP3	1-2	Reserved
JP14	1-2	Reserved

CPU Type	JP10	JP16	JP23	JP24	JP25
Intel 486SX	Short	Open	Open	2-3	1-2

CPU Type	JP10	JP16	JP23	JP24	JP25
Intel 486DX, DX2, DX4 (Default)	Short	Open	Open	1-2	1-2
AMD 486DX, DX4*	Short	Open	Short	1-2	2-3
AMD 486DX2*	Short	Open	Open	1-2	2-3
Cyrix 3.3v 486DX, DX2	Short	Short	Short	1-2	2-3
Cyrix 5v 486DX, DX2	Short	Open	Short	1-2	2-3

Chipset auto detects AMD 3.3-Volt and 5-Volt CPUs

Clock Speed	JP6	JP19	JP20	JP21
33 MHz	1-2	Open	Short	Short
25MHz	2-3	Short	Open	Open

Cache Size	JP8	JP9	JP11	JP12
128KB	Short	Open	Open	Open
256KB	Open	Short	Short	Open
256KB*	Short	Open	Short	Open
512KB	Short	Open	Short	Short

For 256K with 64Kx8 SRAM, in the CMOS Chipset Setup menu, set L2 Cache Configuration to N-Leaved.

### 486PI

Jumper	Position	Function				
JP1	1-2	Normal operation				
	2-3	Clear CMOS				
JP2	1-2	Reserved				
JP3	1-2	LPT IRQ7				
	2-3	LPT IRQ5				
JP5	Open	VGA, EGA or Mono				
	Short	CGA				
JP4,6-7	<b>JP4</b>	<b>JP6</b>	<b>JP7</b>	<b>ECP mode</b>		
	Open	Open	1-2	Enable 4 floppies, No ECP		
	1-2	1-2	2-3	DMA3		
	2-3	2-3	2-3	DMA1		
JP8-12	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>Cache size</b>
	Short	Open	Open	Open	Open	128K
	Open	Short	Short	Short	Open	256K
	Short	Open	Open	Short	Short	512K
JP13	1-2	Reserved				
JP14	1-2	Reserved				
JP17	Short	Reserved				
JP18	Open	Reserved				
JP19-22	<b>JP19</b>	<b>JP20</b>	<b>JP21</b>	<b>JP22</b>	<b>CPU Speed</b>	
	Open	Short	Short	1-2	33 MHz	
	Short	Open	Open	2-3	25 MHz	
JP23	2-3	Reserved				
JP24	Open	Reserved				
JP25	1-2	486DX4, DX2, DX, P24D, P24T, 487SX				
	2-3	486SX				
JP26	Short	Reserved				
JP27	Open	Reserved				
JP28	1-2	Reserved				
JP29	Open	Reserved				
JP30	Open	Reserved				
Green	Open	Normal – power saving triggered by system timer				
	Short	Force system into power saving				

486SH

Jumper	Position					Function
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>JP20</b>	<b>JP21</b>	<b>Cache size</b>
20-21	1-2	2-3	1-2	1-2	1-2	128K
	1-2	1-2	2-3	1-2	2-3	256K
	2-3	2-3	2-3	2-3	2-3	512K
JP4	2-3					1 wait state write transfer
	1-2					0 wait state write transfer
JP7	Open					VGA, EGA or monochrome
	Short					CGA
JP10	1-2					Normal
	2-3					Clear CMOS
JP13	Short					CPU clock 8 MHz when power saving
	Open					CPU full seed
JP11-12	<b>JP11</b>	<b>JP12</b>	<b>JP14</b>	<b>JP5</b>	<b>CPU Speed</b>	
14,5	Open	Open	Short	1-2	20 MHz	
	Short	Short	Open	1-2	25 MHz	
	Short	Open	Open	1-2	33 MHz	
	Open	Short	Open	2-3	40 MHz	
	Open	Open	Open	2-3	50 MHz	
JP15-16	<b>JP15</b>	<b>JP16</b>	<b>JP18</b>	<b>JP19</b>	<b>CPU Type</b>	
18-19	1-2	1-2	Short	Short	486DX,DX2	
	1-2	2-3	Short	Short	487SX, ODP486SX	
	2-3	Open	Open	Short	486SX	
	2-3	Open	Open	Open	QFP 486SX	

486SH v3.1

VL Bus

Jumper	Position					Function
JP1-4	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>Cache size</b>	
	1-2	1-2	1-2,3-4	1-2	128K	
	2-3	2-3	2-3,4-5	1-2	256K	
	1-2	2-3	1-2,3-4	2-3	512K	
J3	1-2					Turbo disabled
	2-3					Enabled
JP5-7,29	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP29</b>	<b>CPU Speed</b>	
	On	On	Off	1-2	25 MHz	
	Off	On	On	1-2	33 MHz	
	On	Off	Off	2-3	40 MHz	
	Off	Off	On	2-3	50 MHz	
JP8-9	<b>JP8</b>	<b>JP9</b>	<b>JP11</b>	<b>JP36</b>	<b>CPU Type</b>	
11,36	1-2	On	3-4	1-2	486DX,DX2	
	1-2	On	3-4	2-3	486DX4 3.3v	
	2-3	Off	Off	1-2	486SX	
	1-2	On	2-3	1-2	487SX,ODP 486SX,P24T	
JP16	1-2					Normal
	2-3					Clear CMOS
JP17	Off					VGA, EGA or Mono
	On					CGA

486SH v3.1

Jumper	Position					Function
JP1-4	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>JP33</b>	<b>Cache size</b>
33	1-2	1-2	1-2,3-4	1-2	2-3	128K
	2-3	2-3	2-3,4-5	1-2	2-3	256K
	1-2	2-3	1-2,3-4	1-2	1-2	256K
	1-2	2-3	1-2,3-4	2-3	2-3	512K

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
JP5-7,29	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP29</b>	<b>CPU Speed</b>
	On	On	Off	1-2	25 MHz
	Off	On	On	1-2	33 MHz
	On	Off	Off	2-3	40 MHz
	Off	Off	On	2-3	50 MHz
JP8-9 11,36	<b>JP8</b>	<b>JP9</b>	<b>JP11</b>	<b>JP36</b>	<b>CPU Type</b>
	1-2	On	3-4	1-3,2-4	486DX,DX2
	1-2	On	3-4	3-5,4-6	486DX4 3.3v
	2-3	Off	Off	1-3,2-4	486SX
	1-2	On	2-3	1-3,2-4	487SX,ODP 486SX,P24T
JP16	1-2				Normal
	2-3				Clear CMOS
JP17	Off				VGA, EGA or Mono
	On				CGA

### 486SH v3.1a

<i>Jumper</i>	<i>Position</i>				<i>Function</i>	
JP1-4 33	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>JP33</b>	<b>Cache size</b>
	1-2	1-2	1-2,3-4	1-2	2-3	128K
	2-3	2-3	2-3,4-5	1-2	2-3	256K
	1-2	2-3	1-2,3-4	1-2	1-2	256K
	1-2	2-3	1-2,3-4	2-3	2-3	512K
JP5-7,29	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP29</b>	<b>CPU Speed</b>	
	On	On	Off	1-2	25 MHz	
	Off	On	On	1-2	33 MHz	
	On	Off	Off	2-3	40 MHz	
	Off	Off	On	2-3	50 MHz	
JP8-9 11,36	<b>JP8</b>	<b>JP9</b>	<b>JP11</b>	<b>JP36</b>	<b>JP30</b>	<b>CPU Type</b>
	1-2	On	3-4	1-3,2-4	Off	486DX,DX2
	1-2	On	3-4	3-5,4-6	Off	AMD DX2, 486DX4 3.3v
	2-3	Off	Off	1-3,2-4	Off	486SX
	1-2	On	2-3	1-3,2-4	Off	487SX,ODP 486SX,P24T
	1-2	On	3-4	3-5,4-6	On	AMD 486DX4 3.3V
JP16	1-2				Normal	
	2-3				Clear CMOS	
JP17	Off				VGA, EGA or Mono	
	On				CGA	

### 486VP (D)

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
JP2	1-2				Normal
	2-3				Clear CMOS
JP5	Off				VGA, EGA or Mono
	On				CGA
JP6	Off				Reserved
JP9	2-3				Reserved
JP10A, B, C, D, J	Off				Reserved
JP11	2-3				Reserved
JP12	1-2				Disable flash programming
	2-3				Enable
JP20-21 62	<b>JP20</b>	<b>JP21</b>	<b>JP62</b>	<b>Cache size</b>	
	1-2	1-2	Off	256K	
	2-3	2-3	Off	512K	
	2-3	Off	2-3	1Mb – set CMOS	
JP29	2-3				Reserved

Jumpers	Position	Function
JP30	2-3	Reserved
JP31	2-3	Reserved
JP32	2-3	Reserved
JP34	On	Reserved
JP35	1-2	Reserved
JP36	1-2	Reserved
JP38	1-2, 4-5, 7-8, 11-12	Reserved
JP40	Off	Reserved
JP41	1-2	Reserved
JP42	Off	Reserved
JP50	Off	Reserved
JP51	Off	Reserved
JP53	1-2,3-4	Reserved
JP54	1-2,3-4	Reserved
JP55	Off	Reserved
JP56	Off	Reserved
JP57	1-2	Reserved
JP58	2-3	Reserved
JP59	1-2	Reserved
JP60	1-2	Reserved
JP61	Off	Reserved
JP63	Off	Reserved
JP64	1-2	Reserved
JP65	1-2	Reserved
JP66	1-2	Reserved
JP68	1-2	Reserved
JP70	2-3	Reserved
JP71	Off	Reserved
JP80	1-3,2-4	5v CPU
	3-5,4-6	3.3v CPU
JP81	On	Reserved

External Clock Speed	JP26	JP27	JP28	JP7	JP33	JP8	JP8A	JP61	JP13
25 MHz	ON	1-2*	2-3	ON	OFF	1-2	2-3	2-3	OFF
33 MHz	ON	2-3	1-2*	OFF	OFF	1-2	2-3	2-3	OFF
40 MHz	OFF	1-2	2-3	OFF	ON	2-3	1-2	1-2	ON
50 MHz	OFF	2-3	1-2	OFF	ON	2-3	1-2	1-2	ON

For DX4, set JP27 off for 25MHz, JP28 off for 33MHz

CPU	JP19	JP69	JP15	JP37	JP52	JP18
486DX4, DX2, DX	OFF	OFF	1-2	2-3	OFF	1-2,3-4
486SX	OFF	OFF	1-2	OFF	OFF	2-3
487SX, P24T	OFF	OFF	1-2	1-2	OFF	1-2,3-4

SIM5-SIM8	SIM1-SIM4	SIM9	SIM10	JP22	JP23	JP24	JP25
BANK0 (1Mx9, 4Mx9)	BANK1 (1Mx9, 4Mx9)	NONE	NONE	1-2	1-2	2-3	2-3
NONE	NONE	BANK0 (1Mx36, 4Mx36)	BANK1 (1Mx36, 4Mx36)	2-3	2-3	1-2	1-2
BANK0 (1Mx9, 4Mx9)	NONE	NONE	BANK1 (1Mx36, 4Mx36)	1-2	2-3	1-2	2-3



SLOTS PCI0, PCI1, PCI2	SLOT PCI3 (IDE Controller)	JP10F	JP10G	JP10H	JP10I	JP10J	JP10K
IRQ9	N/A	1-2	OFF	OFF	OFF	OFF	OFF
IRQ10	N/A	OFF	1-2	OFF	OFF	OFF	OFF
IRQ11	N/A	OFF	OFF	1-2	OFF	OFF	OFF
IRQ12	N/A	OFF	OFF	OFF	1-2	OFF	OFF
IRQ15	N/A	OFF	OFF	OFF	OFF	1-2	OFF
N/A	IRQ14	OFF	OFF	OFF	OFF	OFF	2-4

### 54CDP v1.0

#### Dual Pentium EISA/PCI

Jumper	Position	Function
JS1,4	<b>JS1</b>	<b>Floppy</b> Normal (2) Enhanced (4)
	Open	
	2-3	
JS3	Open	Normal operation
	Short	Clear CMOS
JS5,7,8	<b>JS5</b>	<b>LPT ECP Mode</b> Normal DMA1 DMA3
	<b>JS7</b>	
	<b>JS8</b>	
	Open	
JS6	2-3	LPT IRQ7
	1-2	LPT IRQ5
JS9	1-2	Flash BIOS programming
	2-3	Normal
JS11	Short	8/16-bit Fast Wide SCSI
	Open	8-bit Fast SCSI
	Short	16-bit Fast Wide SCSI
JS13	Short	Single CPU
	Open	Dual CPU
JS15	1-2	256K cache
	2-3	512K cache
JS16	Short	VGA, EGA or Mono
	Open	CGA
JS18	Open	90 MHz CPU
	Short	100MHz

### 54CDP v2.21

Jumper	Position	Function			
JS1,3	<b>JS1</b>	<b>Floppy</b> Normal (2) Enhanced (4)			
	Open				
	2-3				
JS2	Short	Clear CMOS			
	<b>JS4</b>	<b>LPT ECP Mode</b> Normal DMA1 DMA3			
<b>JS6</b>					
<b>JS7</b>					
JS5	Open	LPT IRQ7			
	1-2	LPT IRQ5			
	2-3				
JS9	1-2	Flash BIOS programming			
	2-3	Normal			
JS10	Open	8-bit Ultra Fast SCSI			
	Short	8/16-bit Ultra fast Wide SCSI			
	Short	16-bit Ultra fast Wide SCSI			
JS11,20 21,23	<b>JS11</b>	<b>JS20</b>	<b>JS21</b>	<b>JS23</b>	<b>Clock frequency</b> 75 MHz
	Open	Open	Open	Open	

## 64 The PC Engineer's Reference Book – Vol 2: Motherboards

Jumper	Position				Function
	Open	Open	Short	Open	90 MHz
	Open	Short	Short	Open	100 MHz
	Short	Open	Short	Open	120 MHz
	Short	Short	Short	Open	133 MHz
	Short	Open	Short	Short	150 MHz
	Short	Short	Short	Short	167 MHz
JS12	Short				Single CPU
	Open				Dual CPU
JS13	1-2				256K cache
	2-3				512K cache
JS15	1-2				Flash programming mode
	2-3				Normal
JS17	1-2				VRE CPU (3.53v)
	2-3				STD & VR CPU (3.37v)
JS18,19	<b>JS18</b>	<b>JS19</b>	<b>Cache</b>		
	1-2	1-2	3.3v cache		
	2-3	2-3	5/3.3v cache		
JS24	1-3,2-4				PCI SCSI sharing with PCI slot 4
	3-5,4-6				PCI SCSI sharing with PCI slot 1

### 54CEP v1.0

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	90/100	
Chipset	Mercury	
BIOS	AMI	
Bus	4 EISA/5 PCI	All support busmastering
Memory (Mb)	128 Mb	72-pin SIMMs
Cache (K)	256/512 L2	
I/O	2S, PS/2, 1P	FW SCSI Adaptec 7870
Problems		Quantum 1 GB drives may not communicate at full speed with the 7870 – set communication to 8 MB/sec.

Jumper	Position	Function
JO1	Open	90 MHz CPU
	Short	100MHz
JP5	Open	8-bit Fast SCSI
	Short	8/16-bit Fast Wide SCSI
	Short	16-bit Fast Wide SCSI
JP6	Open	VGA, EGA or Mono display
	Short	CGA
JP8	Open	Normal
	Short	Clear CMOS
JP10	2-3	LPT IRQ7
	1-2	LPT IRQ5
JP16	1-2	256K cache
	2-3	512K cache

### 54CEP v1.2

#### Pentium EISA/PCI

Jumper	Position	Function
JO1	Open	90 MHz CPU
	Short	100MHz
JP5	Short	8/16-bit Fast Wide SCSI
JP6	Open	Colour Display
	Short	Mono
JP8	Open	Normal

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
	Short			Clear CMOS
JP10	2-3			LPT IRQ7
	1-2			LPT IRQ5
JP16	1-2			256K cache
	2-3			512K cache
JP17	1-2			Flash programming mode
	2-3			Normal
JP32,33	<b>JP32</b>	<b>JP33</b>		<b>Floppy</b>
	Open	Open		Normal (2)
	Short	2-3		Enhanced (4)
JP34-36	<b>JP34</b>	<b>JP35</b>	<b>JP36</b>	<b>ECP Mode</b>
	Open	Open	Open	Normal
	1-2	1-2	Short	DMA1
	2-3	2-3	Short	DMA3

### 54CSH

#### Pentium ISA/PCI

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JS2	Open			VGA, EGA or Mono
	Short			CGA
JS3	1-2			Normal
	2-3			Flash BIOS programming
JS4	Open			Normal
	Short			Clear CMOS
JS7-9	<b>JS7</b>	<b>JS8</b>	<b>JS9</b>	<b>CPU Clock</b>
	Short	Open	Open	75 MHz
	Open	Short	Open	90 MHz
	Open	Short	Short	100 MHz
JS10	2-3			Reserved
JS11	1-2			Reserved
JS12	1-2			Reserved
JS13,14	<b>JS13</b>	<b>JS14</b>		<b>Cache size</b>
	1-2	1-2		256K
	1-2	2-3		512K
	2-3	2-3		1 Mb

SIMMs in SIM1, SIM2	SIMMs in SIM3, SIM4	JS5
256Kx36, 1Mx36, 4Mx36, 16Mx36	None	2-3*
256Kx36, 1Mx36, 4Mx36, 16Mx36	256Kx36, 1Mx36, 4Mx36, 16Mx36	1-2
512Kx36, 2Mx36, 8Mx36	None	2-3
512Kx36, 2Mx36, 8Mx36	256Kx36, 1Mx36, 4Mx36, 16Mx36	2-3
512Kx36, 2Mx36, 8Mx36	512Kx36, 2Mx36, 8Mx36	2-3

### 54CMI v1.1

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JO1-3	<b>JO1</b>	<b>JO2</b>	<b>JO3</b>	<b>CPU Frequency</b>
	Open	Open	Short	75 MHz
	Open	Short	Open	90 MHz
	Short	Short	Open	100MHz
JP4,5	<b>JP4</b>	<b>JP5</b>		<b>Cache size</b>
	Open	Open		256K
	Open	Short		512K
	Short	Short		1 Mb
JP6	2-3			Disable Flash programming

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
	1-2	Enable		
JP14	2-3	Normal		
	1-2	Clear CMOS		
JP15	1	Controls VSYNC. Connect to pin 12 of VGA Feature connector.		
	2	Controls HSYNC. Connect to pin 11 of VGA Feature connector.		
	3	Enable/disable video signals. Connect to pin 18 of Feature connector.		
JP29-31	<b>JP29</b>	<b>JP30</b>	<b>JP31</b>	<b>4 floppies/ECP</b>
	Open	Open	Open	Enable/No
	Short	1-2	1-2	No/DMA3
	Short	2-3	2-3	No/DMA1
JP32	1-2			LPT IRQ7
	2-3			LPT IRQ5
JP35	Open			Enable onboard IDE
	Short			Disable

### 54CPI

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
JS1	1-2	LPT IRQ7			
	2-3	LPT IRQ5			
JS2,3	<b>JS2</b>	<b>JS3</b>	<b>ECP Mode</b>		
	Open	Open	Disable		
	2-3	2-3	DMA1		
	1-2	1-2	DMA3		
JS4	Open		Reserved		
JS5	1-2		Reserved		
JS6	1-2		Reserved		
JS7	Open		VGA, EGA or Mono display		
	Short		CGA		
JS8	1-2		Normal		
	2-3		Clear CMOS		
JS9-12	<b>JS9</b>	<b>JS10</b>	<b>JS11</b>	<b>JS12</b>	<b>CPU Frequency</b>
	1-2	2-3	1-2	2-3	75 MHz
	2-3	1-2	1-2	2-3	90 MHz
	1-2	1-2	1-2	1-2	100MHz
	2-3	1-2	2-3	2-3	120 MHz
	1-2	1-2	2-3	1-2	133 MHz
JS13-14	<b>JS13</b>	<b>JS14</b>	<b>JS20</b>	<b>JS21</b>	<b>SRAM</b>
20-21	Short	Short	Open	Open	Mixed mode
	Open	Open	Short	Short	3.3v
JS15-17	<b>JS15</b>	<b>JS16</b>	<b>JS17</b>		<b>Cache size</b>
	1-2	1-2	1-2		256K
	2-3	2-3	2-3		512K
JS18	Open				Reserved
JS19	1-2				Reserved
JS22	Short				Reserved
JS23	Short				Reserved
JS24	Short				Reserved
JS25	Short				Reserved

### 54CPI v2.10

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
JS1,7-8	<b>JS1</b>	<b>JS7</b>	<b>JS8</b>	<b>ECP Mode</b>
	Open	Open	Open	Normal
	Short	1-2	1-2	DMA3
	Short	2-3	2-3	DMA1
JS2,6	<b>JS2</b>	<b>JS6</b>		<b>Floppy Mode</b>

<i>Jumper</i>	<i>Position</i>						<i>Function</i>
	Open	Open					Normal
	Short	2-3					Enhanced
JS3-4	<b>JS3</b>	<b>JS4</b>					<b>COM2 mode</b>
	1-2	1-2					Standard
	2-3	2-3					IR
JS5	1-2						LPT IRQ7
	2-3						LPT IRQ5
JS9-11	<b>JS9</b>	<b>JS10</b>	<b>JS11</b>	<b>JS25</b>	<b>JS32</b>		<b>CPU Frequency</b>
JS25,32	1-2	2-3	1-2	1-2	1-2	1-2	75 MHz
	1-2	1-2	2-3	1-2	1-2	1-2	90 MHz
	2-3	2-3	2-3	1-2	1-2	1-2	100MHz
	1-2	1-2	2-3	1-2	2-3	1-2	120 MHz
	2-3	2-3	2-3	1-2	2-3	2-3	133 MHz
	1-2	1-2	2-3	2-3	2-3	2-3	150 MHz
	2-3	2-3	2-3	2-3	2-3	2-3	166 MHz
JS12-13	<b>JS12</b>	<b>JS13</b>	<b>JS23</b>	<b>JS24</b>			<b>SRAM</b>
23-24	Short	Open	Open	Open			Mixed mode
	Open	Open	Short	Short			3.3v
JS15	Open						VGA, EGA or mono display
	Short						CGA
JS16	<b>JS16</b>	<b>JS19</b>	<b>JS20</b>	<b>JS21</b>			<b>Cache size</b>
19-21	1-2	2-3	1-2	1-2			256K/async
	2-3	1-2	1-2	2-3			512K/async
	2-3	2-3	2-3	2-3			Module
JS17	1-2						12v flash programming
	2-3						5v flash programming
JS18	2-3						Clear CMOS
JS22	Open						Disable CPU pipeline mode
JS26-30	Short						Reserved
JS31	2-3						STD or VR CPU voltage
	1-2						VRE

### 54CPI v3

<i>Jumper</i>	<i>Position</i>						<i>Function</i>
JS5	1-2						LPT IRQ7
	2-3						LPT IRQ5
J03	Short						66 MHz CPU speed
	Open						60 MHz CPU speed
JS12-13	<b>JS12</b>	<b>JS13</b>	<b>JS23</b>	<b>JS24</b>			<b>SRAM</b>
23-24	Short	Short	Open	Open			Mixed mode
	Open	Open	Short	Short			3.3v
JS15	Open						VGA, EGA or mono display
	Short						CGA
JS17	1-2						12v flash programming
	2-3						5v flash programming
JS18	1-2						Normal
	2-3						Clear CMOS
JS31	2-3						STD or VR CPU voltage
	1-2						VRE

### 54TDP

#### Dual Pentium

<i>Jumper</i>	<i>Position</i>				<i>Function</i>	
JP10-11	<b>JP10</b>	<b>JP11</b>	<b>JS14</b>			<b>CPU Type</b>
JS14	Open	Open	2-3			P55

Jumper	Position			Function
	Short	Short	1-2	
				P54
JS7	1-2			Single CPU
	2-3			Dual CPU
JS8-9	<b>JS8</b>	<b>JS9</b>	<b>JS13</b>	<b>CPU Frequency</b>
JS13	2-3	1-2	Open	75 MHz
	1-2	1-2	Open	90 MHz
	2-3	2-3	Open	100MHz
	1-2	1-2	2-3	120 MHz
	2-3	2-3	2-3	133 MHz
	1-2	1-2	1-2,2-3	150 MHz
	2-3	2-3	1-2,2-3	166 MHz
	1-2	1-2	1-2	180 MHz
2-3	2-3	1-2	200 MHz	
JS10	1-2			RAID support card not installed
	2-3			RAID support card installed
JS11	2-3			16-bit SCSI device
	1-2			8-bit SCSI device
JS12	1-2			Wide SCSI termination with low byte
	2-3			Always
CLCMOS	1-2			Clear CMOS
CLPSWD	1-2			Normal
	2-3			Clear Password
FLASH	1-2			12v Flash EPROM
	2-3			5v Flash EPROM
MONO	1-2			Colour Display
	2-3			Mono

### 54TPI

Jumper	Position			Function	
	Short	Short	1-2		
JS2	2-3			Normal	
	1-2			Clear CMOS	
JS3	1-2			Enable PS/2 mouse	
	2-3			Disable	
JS4,5	<b>JS4</b>	<b>JS5</b>		<b>COM2</b>	
	1-2	1-2		Normal	
	2-3	2-3		IR	
JS6-7	<b>JS6</b>	<b>JS7</b>		<b>Floppy Mode</b>	
	2-3	1-2		Normal (2)	
	1-2	2-3		Enhanced (4)	
JS8	1-2			LPT IRQ7	
	2-3			LPT IRQ5	
JS9-11	<b>JS9</b>	<b>JS10</b>	<b>JS11</b>	<b>ECP Mode</b>	
	2-3	Open	Open	Normal	
	1-2	1-2	1-2	DMA1	
	1-2	2-3	2-3	DMA3	
JS12-14	<b>JS12</b>	<b>JS13</b>	<b>JS14</b>	<b>JS16</b>	<b>CPU Frequency</b>
JS16	1-2	2-3	2-3	Open	75 MHz
	1-2	1-2	1-2	Open	90 MHz
	2-3	2-3	1-2	Open	100MHz
	1-2	1-2	1-2	3-4	120 MHz
	2-3	2-3	1-2	3-4	133 MHz
	1-2	1-2	1-2	1-2,3-4	150 MHz
	2-3	2-3	1-2	1-2,3-4	166 MHz
	1-2	1-2	1-2	1-2	180 MHz
	2-3	2-3	1-2	1-2	200 MHz
	JS15	2-3			
1-2					
JS18	2-3			3.3v CPU	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	1-2	3.45v CPU Fast 8-bit SCSI Fast and Wide 16-bit SCSI
PSWD	1-2 2-3	Clear Password Normal
FLASH	1-2 2-3	12v Flash EPROM (Intel) 5v Flash EPROM (SST)
MONO	1-2 2-3	Colour Display Mono

### 54TPI v5

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
JS2	2-3 1-2	Normal Clear CMOS			
JS3	1-2 2-3	Enable PS/2 mouse Disable			
JS12-14	<b>JS12</b>	<b>JS13</b>	<b>JS14</b>	<b>JS16</b>	<b>CPU Speed</b>
JS16	1-2	2-3	2-3	Open	75 MHz
	1-2	1-2	1-2	Open	90 MHz
	2-3	2-3	1-2	Open	100MHz
	1-2	1-2	1-2	3-4	120 MHz
	2-3	2-3	1-2	3-4	133 MHz
	1-2	1-2	1-2	1-2,3-4	150 MHz
	2-3	2-3	1-2	1-2,3-4	166 MHz
	1-2	1-2	1-2	1-2	180 MHz
	2-3	2-3	1-2	1-2	200 MHz
JS15	2-3 1-2				Fast 8-bit CPU Fast and Wide 16-bit SCSI
JS18-21	<b>JS18</b>	<b>JS19</b>	<b>JS20</b>	<b>JS21</b>	<b>CPU Type</b>
	2-3	2-3	2-3	2-3	P55C (Inte)
	1-2	1-2	1-2	1-2	P54C (Intel)/Cyrix/AMD
PSWD	1-2 2-3				Clear Password Normal
FLASH	1-2 2-3				12v Flash EPROM (Intel) 5v Flash EPROM (SST)
MONO	1-2 2-3				Colour Display Mono

### 586EP

#### Pentium EISA/PCI

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J03	Short Open	66 MHz CPU speed 60 MHz CPU speed	
JP5	Open Short Short	8-bit Fast SCSI 16-bit Fast wide SCSI Both 8-bit/16-bit SCSI	
JP6	Open Short	VGA, EGA or Mono CGA	
JP8	Open Short	Normal Clear CMOS	
JP10	1-2 2-3	LPT IRQ7 LPT IRQ5	
JP12,16	<b>JP12</b>	<b>JP16</b>	<b>Cache Size</b>
	1-2	1-2	256K
	2-3	2-3	512K

586MI

Jumper	Position			Function	
JO1-3	<b>JO1</b>	<b>JO2</b>	<b>JO3</b>	<b>CPU Frequency</b>	
	Open	Short	Open	60 MHz	
	Short	Short	Open	66 MHz	
	Open	Open	Short	50MHz	
J05-7	<b>JO5</b>	<b>JO6</b>	<b>JO7</b>	<b>JP19</b>	<b>VL Bus speed</b>
JP19	Short	Open	Open	Open	33 MHz
	Open	Open	Open	Short	40 MHz
JP13	Open			Normal	
	2-3			Flash programming	
JP14	Open			VGA, EGA or mono	
	Short			CGA	
JP15	2-3			Normal	
	1-2			Clear CMOS	
JP18	Short			1 wait state write transfer	
	Open			0 wait state write transfer	
JP21-23	<b>JP21</b>	<b>JP22</b>	<b>JP23</b>	<b>VL Bus IDE Recovery Time</b>	
	2-3	2-3	2-3	Speed 0 – High speed IDE	
	1-2	2-3	2-3	Speed 1 – Medium speed	
	2-3	1-2	2-3	Speed 2 – Slow speed	
JP30	Open			Enable onboard VL-bus IDE	
JP32	1-2			LPT IRQ7	
	2-3			LPT IRQ5	

Cache Size	JP1	JP2	JP3	JP4	JP5	JP6
64KB	1-2	1-2	1-2	Open	Open	Open
128KB	2-3	2-3	2-3	Open	Open	Short
256KB	1-2	1-2	1-2	Open	Short	Short
512KB	2-3	2-3	2-3	Short	Short	Short

P5TPI

Same as 54TPI.

P5TXA

Jumper	Position	Function
JP2	1-2	Normal
	2-3	Clear CMOS
PWSELI	1-2	ATX power supply
	2-3	AT power supply

Voltage	#1	#2	#3	#4
3.5V	ON	ON	ON	ON
3.4V	OFF	ON	ON	ON
3.3V	ON	OFF	ON	ON
3.2V	OFF	OFF	ON	ON
3.1V	ON	ON	OFF	ON
3.0V	OFF	ON	OFF	ON
2.9V	ON	OFF	OFF	ON
2.8V	OFF	OFF	OFF	ON
2.7V	ON	ON	ON	OFF
2.6V	OFF	ON	ON	OFF
2.5V	ON	OFF	ON	OFF



CPU Speed	#1	#2	#3	#4	#5	#6
100MHz	ON	OFF	ON	OFF	OFF	ON
120MHz	OFF	ON	ON	ON	OFF	OFF
133MHz	ON	OFF	ON	ON	OFF	OFF
150MHz	OFF	ON	ON	ON	ON	OFF
166MHz	ON	OFF	ON	ON	ON	OFF
180MHz	OFF	ON	ON	OFF	ON	OFF
200MHz	ON	OFF	ON	OFF	ON	OFF
233MHz	ON	OFF	ON	OFF	OFF	OFF
266MHz	ON	OFF	ON	ON	OFF	ON

Ratio	#4	#5	#6
1.5x	OFF	OFF	ON
2.0x	ON	OFF	OFF
2.5x	ON	ON	OFF
3.0x	OFF	ON	OFF
3.5x	OFF	OFF	OFF
4.0x	ON	OFF	ON
4.5x	ON	ON	ON

Clock	#1	#2	#3
50MHZ	ON	ON	ON
55MHZ	ON	ON	OFF
60MHZ	OFF	ON	ON
66MHZ	ON	OFF	ON
75MHZ	OFF	ON	OFF

### P5TXI

#### Socket 7

Switch	Position	Function
SW1	<b>S1</b> <b>S2</b> <b>S3</b> <b>S4</b>	<b>CPU Voltage</b>
S1-4	On      On      On      On	3.54v
	Off      Off      Off      On	2.8v
	On      Off      Off      On	2.9v
	Off      Off      On      On	3.2v
	On      Off      Off      Off	2.1v
SW2	2, 6 On	150 MHz CPU Speed
S1-7	6 On	180 MHz CPU Speed
	2,3,6 On	200 MHz CPU Speed
	2,3 On	233 MHz CPU Speed
	4 On	266 MHz CPU Speed
S8	On	SCSI High and Low Byte Termination in setup
	Off	SCSI High Byte Termination always enabled
JP3	1-2	Normal
	2-3	Clear CMOS

### P6NDI

#### Dual Pentium Pro ATX

CPU	JSS1	JSS2	JSS3	JSS4	JS1	JS2	JS3	JS4
150MHz	2-3	1-2	1-2	1-2	1-2	1-2	1-2	1-2
180MHz	1-2	2-3	1-2	1-2	1-2	1-2	1-2	1-2
200MHz	1-2	2-3	1-2	1-2	2-3	2-3	2-3	2-3

### P6NDP

#### Dual Pentium Pro ATX

Jumper	Position	Function
HBYEN	1-2	Auto SCSI High Byte Termination
	2-3	Always
MONO	1-2	Colour display
	2-3	Mono
ECMOS	1-2	Normal
	2-3	Clear CMOS
FLASH	1-2	Intel Flash BIOS (12v)
	2-3	SST Flash BIOS (5v)
CLPSWD	1-2	Normal
	2-3	Clear Password

CPU	JSS1	JSS2	JSS3	JSS4	JS3	JS4	JS5	JS6
150MHz	1-2	1-2	1-2	2-3	1-2	1-2	1-2	1-2
180MHz	1-2	1-2	2-3	1-2	1-2	1-2	1-2	1-2
200MHz	1-2	1-2	2-3	1-2	2-3	2-3	2-3	2-3

**P6NPI**

Dual Pentium Pro ATX

Jumper	Position	Function
JS8	1-2	Auto SCSI High Byte Termination
	2-3	Always
JS9	1-2	Normal
	2-3	ARO-1130 RAID Card installed
JS10	1-2	Fast 8-bit SCSI
	2-3	Fast and Wide 16-bit SCSI
CLCMOS	1-2	Normal 2-3 Clear CMOS
CLPSWD	1-2	Normal
	2-3	Clear Password
MONO	1-2	Colour display
	2-3	Mono

CPU	JSS1	JSS2	JSS3	JSS4
2x	1-2	1-2	1-2	1-2
2.5	1-2	1-2	1-2	2-3
3 (Default)	1-2	1-2	2-3	1-2
3.5	1-2	1-2	2-3	2-3
4	1-2	2-3	1-2	1-2

CPU	JS4	JS5	JS6	JS7
133MHz	2-3	2-3	2-3	2-3
150MHz	1-2	1-2	1-2	1-2
180MHz	1-2	1-2	1-2	1-2
200MHz	2-3	2-3	2-3	2-3

**P6BXI**

Switch	Position	Function			
S1-3	All Off	CPU external clock - Reserved			
S4-7	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>CPU multiplier</b>
	On	On	On	On	2x
	Off	On	On	On	2.5x
	On	Off	On	On	3x
	Off	Off	On	On	3.5x
	On	On	Off	On	4x
	Off	On	Off	On	4.5x

## Alaris

### Leopard LX 486SLC2 Rev C

Low cost version of Leopard SLC2/50 (no VESA slots or external cache, but faster). Made by IBM. Uses Opti 82C283 AT controller.

Jumper	Position	Function
JP6	1-2	128K cache
	2-3	64K cache

## Alcom Group

See Micron Design Technology Ltd

www.alcom.com.tw

## Ali

Acer Labs International

### 1429G

Switch	Position	Function					
JP1-3	<b>JP1</b>	<b>SMI CPU</b>					
	2-3	486/DX4					
	2-3	AMD 486DXL					
	1-2	Cyrix M6/M7					
	Open	Any 5v CPU					
JP4	Open	Cyrix CPU					
JP13-15 17,20,48	<b>CPU Type</b>	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP17</b>	<b>JP20</b>	<b>JP48</b>
	486DX/DX2	2-3	1-2	2-3	Close	1-2	1-2
	DX4/M7/486SX/M6	Open	1-2	1-2	Open	1-2	1-2
	486 Overdrive	1-2	1-2	2-3	Close	1-2	1-2
	P24T	1-2	2-3	2-3	Close	2-3	1-2
JP23,30	<b>JP23</b>	<b>JP30</b>	<b>SRAM (cache)</b>				
	6-7	Open	32K (8Kx8)				
	6-7,4-5	1-2	64K (16Kx8)				
	5-6	1-2	64K (8Kx8)				
	6-7,4-5,2-3	1-2,3-4	128K (32Kx8)				
	6-7,4-5,2-3	1-2,3-4	256K (64Kx8)				
	1-2,3-4,5-6	1-2,3-4	256K (32Kx8)				
	6-7,4-5,2-3	1-2,3-4,5-6	512K (128Kx8)				
JP27-28 33,36	<b>External Bus Speed</b>		<b>JP27</b>	<b>JP28</b>	<b>JP33</b>	<b>JP36</b>	
	25 MHz		2-3	1-2	1-2,5-6	1-2	
	33 MHz		2-3	1-2	1-2,3-4	1-2	
	40 MHz		2-3	1-2	5-6	1-2	
	50 MHz		2-3	2-3	1-2,5-6	2-3	
JP32	1,3	2 Standby Mode output					
	5,7	2 Suspend Mode output					
	2,4,6,8	GND					
JP39	Close	Colour monitor 2-3 Mono					
JP43	1-2	3.3v CPU					
	2-3	5v CPU					
JP49	2-3,3-5	Single density SIMMs					
	1-3,2-4	Double Density					
JP51	Close	AMD DX2-80					
	Open	AMD DX4-100					

### J624

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	90	
Chipset	ALI	
BIOS	AMI WinBIOS	
Bus		

### PCI P5-60/66

Item	Description	Notes
Chipset	ALI	
BIOS		
Bus	4 ISA/4 PCI	1 each shared

### ALR

Advanced Logic Research makes stuff for Gateway

### 7200

Switch	Position	Function
JP22	3-4	200 MHz
	1-2,3-4	233 MHz
	5-6	266 MHz
	1-2, 5-6	300 MHz
	3-4, 5-6	333 MHz
	1-2, 3-4	350 MHz
	5-6	400 MHz
	1-2,5-6	450 MHz

### 8200

Switch	Position	Function
JP22	5-6	266 MHz
	1-2, 5-6	300 MHz
	3-4, 5-6	333 MHz
	1-2, 3-4	350 MHz
	3-4,5-6	366 MHz
	5-6	400 MHz

### FlexCache 33/386

Switch	Position	Function
S1	On	Cache disabled
	Off*	Cache enabled
S2	Off*	Monochrome
	On	CGA
S3	Off*	RAM/ROM swap enabled
	On	RAM/ROM swap disabled
S4	Off*	80387-33 or 3167 installed
	On	80387-25 installed
S5	Off*	Memory upper limit is 15.875 Mb (FDFFFF)
	On	Memory upper limit is 15.5 Mb
S6		Reserved
S7	Off*	Floppy slowdown disabled
	On	Floppy slowdown enabled
S8	Off*	HD slowdown disabled
JP2,3,4	<b>Memory</b>	<b>Bank 0    Bank 1    JP2    JP3    JP4</b>

Switch	Position	Function				
	2 Mb	256K		Out		Out
	4 Mb	256K	256K		Out	Out
	8 Mb	1 Mb		Out		In
	10 Mb	1 Mb	256K	In	Out	In
	10 Mb	256K	1 Mb	In	In	Out
	16 Mb	1 Mb	1 Mb	In	In	In
JP7-10	<b>Speed (ns)</b>	<b>J7</b>	<b>J8</b>	<b>J9</b>	<b>J10</b>	<b>Bank</b>
	120			Out	Out	0
	100			Out	In	0
	80/85			In	Out	0
	60			In	In	0
	120	Out	Out			1
	100	Out	In			1
	80/85	In	Out			1
	60	In	In			1
J1,3,4		Reserved				

### FlexCache 16/20-386

Jumper	Position	Function	
S1	Off*	Mono	
	On	CGA	
S2		Reserved	
S3		Reserved	
S4	On	2 Mb Onboard	
	Off*	1 Mb Onboard	
S5	On*	Cache enabled	
	Off	Cache disabled	
S6,7	<b>S6</b>	<b>S7</b>	<b>Maths copro</b>
	Off	Off	There
	Off	On	Not there*
S8	Off	High speed	
	On	Low speed	

### 386/220

Jumper	Position	Function	
S1	Off*	Mono	
	On	CGA	
S2		Reserved	
S3		Reserved	
S4	On	2 Mb 32-bit memory Onboard	
	Off*	1 Mb 32-bit memory Onboard	
S5	On*	Shadow RAM enabled	
	Off	Shadow RAM disabled	
S6,7	<b>S6</b>	<b>S7</b>	<b>Maths copro</b>
	On	Off	80287
	Off	On	Not there*
	Off	Off	80387
S8	Off	High speed	
	On	Low speed	

### Flexcache 25/386(dt)

An intelligent board that automatically knows the memory configuration upon power-up. Standard versions of the desktop include 1 Mb in banks 0 and 1; the floor-mount has 4 Mb. Each bank supports eighteen 256 Kb by 1 DRAM chips and 1 Mb by 1 Mb chips, respectively. Additional memory requires the 32-bit FlexMem card which can provide up to 16 Mb. Another way to set the cache controller is through speed selection. When the speed is set low, the cache is OFF. When set high, the cache is ON, thereby activating the 0 wait state.

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Cache enabled
	On	Cache disabled (slow speed)
S2	On	CGA
	Off*	Mono
S3	On	Shadow RAM disabled
	Off*	Shadow RAM enabled
S4	On	80387-20
	Off*	80387-25
S5	On	Reserved
	Off*	Factory setting
S6,7		Reserved
S8	Off*	Slow HD access time
	On	Fast HD access time

Standard version

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
S1,2,7,8	<b>S1</b>	<b>S2</b>	<b>S7</b>	<b>S8</b>	<b>COM ports</b>
	On	Off	Off	On	COM1 IRQ4
	Off	On	On	Off	COM2 IRQ3
	Off	Off	Off	Off	None
S3,4	<b>S3</b>	<b>S4</b>			<b>LPT IRQ</b>
	On	Off			7
	Off	On			5
	Off	Off			None
S5-6	<b>S5</b>	<b>S6</b>			<b>Floppy</b>
	Off	Off			Disabled
	On	On			Enabled

Alton

See PC Ware

Amaquest

Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
DA	AP 8548	BC-00	AP 8548
AC-00	AP 8548 rev 2		

American Megatrends

See AMI

American Predator

www.americanpredator.com

American Sunshine Technologies

www.sunshinetech.com

AMI

American Megatrends - www.megatrends.com

## Apollo

Item	Description	Notes
Speeds (MHz)	75-133	
Chipset	Triton	
Bus	4 PCI/4 ISA	1 each shared
Memory (Mb)	128 Mb	
Cache (K)	512	
I/O	2S, 1P, 1 Floppy	

## Apollo II

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	166	
Chipset	430FX	2 <sup>nd</sup> generation
Bus	4 PCI/3 ISA	None shared
Memory (Mb)	128 Mb	
Cache (K)	512	W/B or PB
I/O	2S, 1P, 1 Floppy	

## ATLAS PCI

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	90/100	
Chipset	SIS	
BIOS	Green AMI	
Bus	4 PCI/4 ISA	All PCI are Busmasters. PnP 1.0A compliant
Memory (Mb)	128	72-pin SIMMs
Cache (K)	512	256 standard
I/O	2S, 1P, PS/2, EIDE	
Problems		Will not recognise S3-based cards (e.g. Stealth 64 Video VRAM unless special BIOS is installed.

## ATLAS PCI II

Item	Description	Notes
Form Factor		
CPU		
Speeds (MHz)		
Chipset	430HX	
BIOS	Green AMI	
Bus	4 PCI/4 ISA	All PCI are Busmasters
Memory (Mb)	256	72-pin parity
Cache (K)	512	asynchronous, synchronous, or pipelined burst
I/O	2S, 1P, PS/2, EIDE	
Comments		2 <sup>nd</sup> generation Atlas

## Excalibur PCI EISA

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	60	
Chipset	SiS	
Bus	3 PCI/6 EISA	None shared
Memory (Mb)	192	
Cache (K)	512 W/B	256K standard
I/O	2S, 1P	

*Excalibur PCI II*

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	60/66	
Chipset	Sis	
BIOS		
Bus	4 PCI/4 ISA	1 each shared
Memory (Mb)	128	
Cache (K)	512 W/B	256K standard
I/O	2S, 1P	

*Goliath*

Item	Description	Notes
Form Factor		
CPU	4 Pentium Pro	Main board takes 2, secondary board 2 more.
Speeds (MHz)	200	
Chipset	Orion	
BIOS	AMI	
Bus	6 PCI/4 EISA	2 PCI buses, 3 slots per bus
Memory (Mb)	1 Gb	8 slots. ECC. DIMMs
Cache (K)		
I/O	2S, 1P	

*MegaPro*

Item	Description	Notes
Form Factor		
CPU	2 Pentium Pro	
Speeds (MHz)	180/200	
Chipset	Natome	
Bus	6 PCI/4 EISA	1 each shared. 2 PCI buses, 3 slots per bus. All busmaster
Memory (Mb)	1 Gb	FPM, EDO or BEDO. Parity/ECC
Cache (K)		
I/O	2S, 1P	

*Merlin*

Item	Description	Notes
CPU	Pentium Pro	
Speeds (MHz)	180/200	
Chipset	Natoma	
BIOS		
Bus	4 PCI/4 ISA	1 each shared, 1 PCI only takes 1/4 length card.
Memory (Mb)	512	FPM, EDO or BEDO. Parity/ECC
I/O	2 S, 1 P, 2 USB	

*Super Voyager*

Item	Description	Notes
CPU	486	Pentium Overdrive
Speeds (MHz)		
BIOS	Green AMI Flash	WinBIOS
Bus	3 PCI/4 ISA	PnP 1.0A compliant. PCI 2.0. Busmasters
Memory (Mb)	128	72-pin SIMMs
Cache (K)	256	128 standard
I/O	2S, 1 P, Floppy	
Comments		



### Titan II

Item	Description	Notes
Form Factor		
CPU	2 Pentium	
Speeds (MHz)	150	
Chipset	Neptune	
BIOS		
Bus	4 PCI/6 EISA	None shared, all busmasters
Memory (Mb)	512	8 rows
Cache (K)	512 W/B	256 standard

### Titan III

Item	Description	Notes
Form Factor		
CPU	2 Pentium	
Speeds (MHz)	166	200?
Chipset	Triton II	
BIOS		
Bus	4 PCI/4 EISA	1 each shared, all busmasters
Memory (Mb)	384	6 rows
Cache (K)	512	Pipelined Burst. 256 standard

### Amjet

See J-Mark Computer Corp

### AMP

See Advance Micro Products

### Amptron

[www.amptron.com](http://www.amptron.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	PM 7400	HC	PM 7600
4C	PM 7600	IC	PM 7700B
9C	PM 8400		

### DX 6900

Item	Description	Notes
Form Factor	AT	
CPU	DX4/100	
Speeds (MHz)	120	
Chipset	UMC	
BIOS	AMI Win	
Bus	3 VESA/7 EISA	
Memory (Mb)		3 x 30, 2 x 72

<i>Jumper</i>	<i>Position</i>					<i>Function</i>		
JP3	1-2					5v Flash ROM		
	2-3					12v Flash ROM		
JP6-8	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>			<b>CPU Clock</b>		
	Off	Off	On			25 MHz		
	On	On	On			33 MHz		
	Off	On	On			40 MHz		
	On	Off	Off			50 MHz		
JP16	Off					VESA <=33 MHz		
	On					VESA > 33 MHz		
JP17	Off					0 VESA WS		
	On					1 VESA WS		
JP21-24	<b>JP24</b>	<b>JP25</b>	<b>JP26</b>	<b>JP35</b>	<b>CPU Power</b>			
35	2-3		2-3	2-3	Off	5v		
	1-2		1-2	1-2	On	3.3v		
	1-2		1-2	1-2	Off	4v		
JP27-30	<b>JP27</b>	<b>JP28</b>	<b>JP29</b>	<b>JP30</b>	<b>JP32</b>	<b>JP33</b>	<b>CPU</b>	
32, 33	2-3				2-3		486SX	
	2-3				1-2	1-2,2-3	486DX/DX2 (Intel/AMD)	
	1-2,2-3	1-2	1-2	5-6	1-2	1-2,2-3	486DX2/DX4	
	1-2,2-3	1-2,4-5	1-2,4-5	3-4,5-6	1-2	1-2,2-3	P24D/enh AMD DX4, 5x86	
	1-2,3-4	1-2	1-2	5-6	2-3	1-2,2-3	P24T	
	2-3	1-2,3-4	1-2,3-4	2-3,4-5	1-2	1-2,3-4	Cyrix M7	
		5-6	5-6					
	2-3	2-3	1-2	3-4	2-3	UMC U5		
JP31	Off					CPU 3x		
	1-2					CPU 2.5x		
	2-3					CPU 2x		
JP 34	Off					AMD DX4 3x		
	On					AMD DX4 2x		

### *DX-9500*

Eurone M919 v1, from the same source.

### *DX-9700*

Eurone M919 v3, from the same source.

### *PM 7400*

Same as PC Chips 529

### *PM 7600*

Fugutech M 507 in disguise.

## Amtec

www.antec-inc.com

## Anigma

Used by Gateway 2000.

## Anscera

## Anson

## Antec

www.antec-inc.com

## AOpen

AcerOpen - [www.aopen.com](http://www.aopen.com) [www.aopen-usa.com](http://www.aopen-usa.com) [www.aopenamerica.com](http://www.aopenamerica.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	AP5T	AC	AP65

### AP 4

Jumper	Position	Function	
JP1	1-2	Enable FDC and Super I/O chip	
	2-3	Disable	
JP2,3	<b>JP2</b>	<b>ECP DMA Channel</b>	
	2-3		DMA 1
	1-2		DMA 3
JP4	1-2	12v Flash ROM	
	2-3	5v EEPROM or Flash ROM	
JP30-32	<b>JP30</b>	<b>OSC frequency</b>	
	1-2		25 MHz
	2-3		33 MHz
	2-3		50 MHz
JP37	1-2	Normal	
	2-3	Clear CMOS	

Cache Size	JP24	JP25	JP26	JP27	JP29
32 KB x 4 = 128K	1-2	1-2	2-3	1-2	1-2, 3-4
32 KB x 8 = 256K	1-2	2-3	2-3	2-3	2-3, 4-5
64 KB x 4 = 256K	1-2	2-3	1-2	1-2	1-2, 3-4
64 KB x 8 = 512K	2-3	2-3	2-3	2-3	2-3, 4-5
128 KB x 4 = 512K	2-3	2-3	2-3	1-2	1-2, 3-4

### 5v CPU

	486SX SL	DX/DX2 SL	P24D	P24T
JP11	2-3	2-3	1-2	1-2
JP12	1-2	1-2	1-2	1-2
JP13	Open	Open	Open	1-2
JP14	Open	Open	1-2	Open
JP15	Open	Open	1-2	Open
JP16	Open	Open	1-2	1-2
JP17	3-4	3-4	1-2, 3-4	3-4
JP18	2-3	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP19	Open	Open	Open	1-2
JP20	Open	3-4	3-4	2-3
JP21	4-5	4-5	4-5	1-2
JP22	1-2	1-2	2-3	Open
JP23	2-3	2-3	2-3	2-3
JP40	1-3, 2-4	1-3, 2-4	1-3, 2-4	1-3, 2-4

	486SX	486DX/DX2	CxDX/DX2
JP11	2-3	2-3	2-3
JP12	Open	Open	1-2
JP13	Open	Open	Open
JP14	Open	Open	Open

	486SX	486DX/DX2	CxDX/DX2
JP15	Open	Open	Open
JP16	Open	Open	2-3
JP17	Open	Open	2-3
JP18	2-3	1-2, 3-4	1-2, 3-4
JP19	Open	Open	2-3
JP20	Open	3-4	3-4
JP21	Open	Open	2-3
JP22	Open	Open	Open
JP23	Open	Open	1-2
JP40	1-3, 2-4	1-3, 2-4	1-3, 2-4

## 3.45v CPU

	Intel DX4 (W/T)	Intel DX4 (W/B)	AMD DX2	AMD DX4 (V8T)	AMD DX4-S (SV8B)	AMD DX4-S (SV8T)
JP11	2-3	1-2	2-3	2-3	1-2	2-3
JP12	1-2	1-2	Open	Open	1-2	1-2
JP13	Open	Open	Open	Open	Open	Open
JP14	Open	1-2	2-3	Open	1-2	Open
JP15	Open	1-2	Open	Open	1-2	Open
JP16	Open	1-2	Open	Open	1-2	Open
JP17	3-4	1-2, 3-4	Open	Open	1-2, 3-4	3-4
JP18	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP19	Open	Open	Open	Open	Open	Open
JP20	3-4	3-4	3-4	3-4	3-4	3-4
JP21	4-5	4-5	Open	Open	4-5	4-5
JP22	1-2	2-3	Open	Open	2-3	1-2
JP23	2-3	2-3	Open	Open	2-3	2-3
JP40	3-5, 4-6	3-5, 4-6	3-5, 4-6	3-5, 4-6	3-5, 4-6	3-5, 4-6

	Cyrix 486DX2	Cyrix DX4 (iDX4 P/O)	Cyrix DX4 (M7 P/O)	Cyrix 5X86	TI 486DX2
JP11	2-3	2-3	2-3	2-3	2-3
JP12	1-2	1-2	1-2	1-2	1-2
JP13	Open	Open	Open	Open	Open
JP14	Open	1-2	Open	1-2	Open
JP15	Open	1-2	Open	1-2	Open
JP16	2-3	1-2	2-3	1-2	2-3
JP17	2-3	1-2, 3-4	2-3	1-2, 3-4	2-3
JP18	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP19	2-3	Open	2-3	Open	2-3
JP20	3-4	3-4	3-4	3-4	3-4
JP21	2-3	4-5	2-3	4-5	2-3
JP22	Open	2-3	Open	2-3	Open
JP23	1-2	2-3	1-2	2-3	1-2
JP40	3-5, 4-6	3-5, 4-6	3-5, 4-6	3-5, 4-6	3-5, 4-6

## AP 43

Jumper	Position	Function
JP21	1-2	Enable FDC and Suoer I/O chip
	2-3	Disable
JP22,23	<b>JP22</b>	<b>ECP DMA Channel</b>
	2-3	DMA 1
	1-2	DMA 3
JP24	1-2	5v EEPROM or Flash ROM
	2-3	12v Flash ROM
JP25-27	<b>JP25</b>	<b>OSC frequency</b>
	2-3	25 MHz
	2-3	33 MHz

Jumper	Position			Function
	1-2	1-2	1-2	50 MHz
JP28	1-2			Normal
	2-3			Clear CMOS

## 5v CPU

	486SX SL	DX/DX2 SL	P24D	P24T
JP6	Open	Open	Open	1-2
JP7	2-3	2-3	1-2	1-2
JP8	Open	Open	1-2	Open
JP9	Open	Open	1-2	Open
JP10	1-2	1-2	1-2	1-2
JP13	Open	Open	Open	1-2
JP14	2-3	2-3	2-3	2-3
JP15	2-3	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP16	Open	3-4	3-4	2-3
JP17	3-4	3-4	1-2, 3-4	3-4
JP18	Open	Open	1-2	1-2
JP19	1-2	1-2	2-3	Open
JP20	4-5	4-5	4-5	1-2
JP29	2-3	2-3	2-3	2-3

	Intel/AMD 486SX	Intel/AMD 486DX/DX2	Cyrix 486DX/ DX2
JP6	Open	Open	Open
JP7	2-3	2-3	2-3
JP8	Open	Open	Open
JP9	Open	Open	Open
JP10	Open	Open	1-2
JP13	Open	Open	2-3
JP14	Open	Open	1-2
JP15	2-3	1-2, 3-4	1-2, 3-4
JP16	Open	3-4	3-4
JP17	Open	Open	2-3
JP18	Open	Open	2-3
JP19	Open	Open	Open
JP20	Open	Open	2-3
JP29	2-3	2-3	2-3

## 3.45V CPU

	Intel DX4 (W/T)	Intel DX4 (W/B)	AMD DX2	AMD DX4 (V8T)	AMD DX4-S (SV8T)	AMD DX4-S (SV8B)
JP6	Open	Open	Open	Open	Open	Open
JP7	2-3	1-2	2-3	2-3	2-3	1-2
JP8	Open	1-2	Open	Open	Open	1-2
JP9	Open	1-2	2-3	Open	Open	1-2
JP10	1-2	1-2	Open	Open	1-2	1-2
JP12	Open	Open	Open	Open	Open	Open
JP13	Open	Open	Open	Open	Open	Open
JP14	2-3	2-3	Open	Open	2-3	2-3
JP15	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP16	3-4	3-4	3-4	3-4	3-4	3-4
JP17	3-4	1-2, 3-4	Open	Open	3-4	1-2, 3-4
JP18	Open	1-2	Open	Open	Open	1-2
JP19	1-2	2-3	Open	Open	1-2	2-3
JP20	4-5	4-5	Open	Open	4-5	4-5
JP29	1-2	1-2	1-2	1-2	1-2	1-2

	TI DX2	Cyrix DX2/ DX4 (M7 /O)	Cyrix DX4 (iDX4 P/O) 5X86	TI DX4	AMD Am5x86
JP6	Open	Open	Open	Open	Open
JP7	2-3	2-3	2-3	2-3	1-2
JP8	Open	Open	1-2	Open	1-2
JP9	Open	Open	1-2	Open	1-2
JP10	1-2	1-2	1-2	1-2	1-2
JP12	Open	Open	Open	2-3	1-2
JP13	2-3	2-3	Open	2-3	Open
JP14	1-2	1-2	2-3	1-2	2-3
JP15	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4	1-2, 3-4
JP16	3-4	3-4	3-4	3-4	3-4
JP17	2-3	2-3	1-2, 3-4	2-3	1-2, 3-4
JP18	2-3	2-3	1-2	2-3	1-2
JP19	Open	Open	2-3	Open	2-3
JP20	2-3	2-3	4-5	2-3	4-5
JP29	1-2	1-2	1-2	1-2	1-2

Cache Size	JP1	JP2	JP3	JP4	JP5
32 KB x 4 = 128 KB	1-2, 3-4	1-2	2-3	1-2	1-2
32 KB x 8 = 256 KB	2-3, 4-5	2-3	2-3	1-2	2-3
64 KB x 4 = 256 KB	1-2, 3-4	1-2	1-2	1-2	2-3
64 KB x 8 = 512 KB	2-3, 4-5	2-3	2-3	2-3	2-3
128 KB x 4 = 512 KB	1-2, 3-4	1-2	2-3	2-3	2-3

AP 53

Jumper	Position	Function
JP3,13	<b>JP3</b>	<b>CPU Type</b>
	1-2,3-4	Single voltage CPU
	Open	Dual voltage CPU
JP11	1-2	3.45v CPU core (default for P54C)
	3-4	3.52v
	5-6	2.5v
	7-8	3.2v
	9-10	2.8v
JP12	11-12	2.9v
	1-2	3.43v CPU I/O voltage
	3-4	3.52v

AP 55CS

Jumper	Position	Function
JP1	1-2	Linear cache (Cyrix)
	2-3	Interleave cache (Intel)
JP3	1-2,3-4,5-6	Reserved
JP4,6,7	<b>JP4</b>	<b>VGA</b>
	1-2	Enable
	Open	Disable
JP8	1-2	Reserved
JP11,12	2-3	ECP DMA 1
	1-2	ECP DMA 3
JP13	1-2,3-4,5-6	Reserved
JP14	1-2	Enable FDC and Super I/O chip
JP18	2-3,5-6	5v Flash ROM
	1-2,5-6	12v Flash ROM
	2-3,4-5	EEPROM

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP19	1-2	Normal
	2-3	Clear CMOS

<b>CPU Type</b>	<b>JP9</b>	<b>JP10</b>	<b>JP22</b>	<b>JP23</b>
P54C-75	2-3	2-3	2-3	2-3
P54C-90	2-3	1-2	2-3	2-3
P54C-100	1-2	2-3	2-3	2-3
P54C/CS/CQS-120	2-3	1-2	1-2	2-3
P54C/CS/CQS-133	1-2	2-3	1-2	2-3
P54CS/CQS-150	2-3	1-2	1-2	1-2
P54CS/CQS-166	1-2	2-3	1-2	1-2
Cyrix 6x86-P120+	2-3	2-3	Open	Open
Cyrix 6x86-P150+	2-3	1-2	Open	Open
Cyrix 6x86-P166+	1-2	2-3	Open	Open

### AP 57

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
JP7	1-2	3.45v CPU core (default for P54C)		
	3-4	3.52v		
	5-6	2.5v		
	7-8	3.2v		
	9-10	2.8v		
	11-12	2.9v		
JP8	1-2	3.43v CPU I/O voltage		
	3-4	3.52v		
JP9-11	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>CPU Type</b>
	Close	Open	Close	Single voltage CPU
	Open	Close	Open	Dual voltage CPU

### AP 58

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>CPU Frequency Ratio</b>
	1-2	1-2	1-2	1.5 (3.5 for 233 MMX)
	2-3	1-2	1-2	2
	2-3	2-3	1-2	2.5 (1.75 for PR 166)
	1-2	2-3	1-2	3
	2-3	1-2	2-3	4
	2-3	2-3	2-3	4.5
	1-2	2-3	2-3	5
	1-2	1-2	2-3	5.5
	JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>
2-3		2-3	1-2	<b>50</b>
2-3		2-3	2-3	<b>55</b>
1-2		2-3	1-2	<b>60</b>
2-3		1-2	1-2	<b>66</b>
1-2		2-3	2-3	<b>75</b>
2-3		1-2	2-3	83.3 Internal test only
JP8	1-2			Sync PCI Clk
	3-4			Async
JP11	1-2			3.45v CPU core (default for P54C) Single Voltage
	3-4			3.52v Single Voltage
	5-6			2.9v
	7-8			2.8v
	9-10			3.2v
	11-12			2.2v

Jumper	Position	Function
JP 14	1-2	Normal
	2-3	Clear CMOS
JP 18	1-2	Enable onboard Super I/O
	2-3	Disable

AP 5C

Jumper	Position	Function	
JP3,4	1-2	ECP DMA Channel 3	
	2-3	ECP DMA Channel 1	
JP5	1-2	Enable SMC 665GT Super I/O controller	
	2-3	Disable	
JP6	Closed	Enable PS/2 mouse	
	Open	Disable	
JP9-10	<b>JP9</b>	<b>JP10</b>	<b>CPU Type</b>
			1-2
	2-3	1-2,3-4	P54C-90
	2-3	1-2,3-4	P54C-100
	2-3	3-4,5-6	P54C/CS/CQS-120
	2-3	3-4,5-6	P54C/CS/CQS-133
	2-3	5-6,7-8	P54CS/CQS-150
	2-3	5-6,7-8	P54CS/CQS-166
JP11	1-2,3-4	50 MHz host clock	
	1-2	60 MHz host clock	
	3-4	66 MHz host clock	
JP12	1-2	256K cache	
	2-3	512K cache	
JP13	1-2	5v Flash ROM	
	2-3	12v Flash ROM	
JP14,16	<b>JP14</b>	<b>JP16</b>	<b>SRAM</b>
			Off
	On	Off	3.3V/5V Mix Mode SRAM
JP15	1-2	Normal	
	2-3	Clear CMOS	

AP 5CP

Jumper	Position	Function		
JP 1,2	<b>JP1</b>	<b>JP2</b>	<b>ECP DMA Channel</b>	
			1-2	1-2
	2-3	2-3	DMA 1	
JP 3	1-2	Enable Super I/O controller		
	2-3	Disable		
JP 4	Closed	Enable PS/2 mouse		
	Open	Disable		
JP 5,6,8	<b>JP5</b>	<b>JP6</b>	<b>JP8</b>	<b>CPU Type</b>
				1-2
	2-3	1-2	1-2,3-4	90
	2-3	3-4	1-2,3-4	100
	2-3	1-2	3-4,5-6	120
	2-3	3-4	3-4,5-6	133
	2-3	1-2	5-6,7-8	150
	2-3	3-4	5-6,7-8	166
	2-3	3-4	1-2,7-8	200
	1-2	1-2,3-4	Open	Cyrix 6x86 P120+
JP 7	1-2	256K cache		
	2-3	512K cache		

Resistors at R260, 261, 262, 263 allow 3.3/5v SRAMs. For 3.3v,



Jumper	Position	Function
		install zero-ohm resistors at R249, 253, 254, 255
JP9	1-2	5v Flash ROM
	2-3	12v Flash ROM
JP12	1-2	Normal
	2-3	Clear CMOS

### AP 5CS

Jumper	Position	Function		
JP2	1-2	Clear CMOS		
	2-3	Normal		
JP 3	1-2	Reserved		
JP 5,6	<b>JP5</b>	<b>JP6</b>	<b>ECP DMA Channel</b>	
	1-2	1-2	DMA 3	
	2-3	2-3	DMA 1	
JP 7	1-2	Enable Super I/O controller		
	2-3	Disable		
JP 10,11,17	<b>JP10</b>	<b>JP11</b>	<b>JP17</b>	<b>CPU Type</b>
	1-2	1-2	1-2	75
	1-2	2-2	1-2	90
	2-3	2-3	1-2	100
	1-2	2-3	2-3	120
	2-3	2-3	2-3	133
JP 12	<b>2-3</b>			<b>Reserved</b>
JP 14,16	<b>JP14</b>	<b>JP16</b>		<b>Cache</b>
	1-2	1-2		256K
	1-2	2-3		512K
	2-3	2-3		1 Mb
JP13,15	<b>JP13</b>	<b>JP15</b>		<b>Flash ROM Type</b>
	1-2	1-2		Flash ROM
	2-3	2-3		EEPROM
JP 18,19	<b>2-3</b>			<b>Reserved</b>

### AP 5S

Jumper	Position	Function		
JP1	1-2	Linear cache (Cyrux)		
	2-3	Interleave cache (Intel)		
JP6,7	1-2	ECP DMA Channel 3		
	2-3	ECP DMA Channel 1		
JP5,13	1-2, 3-4, 5-6	P54C CPU		
JP8	1-2	12v Flash ROM		
	2-3	5v Flash ROM		
JP10	1-2	Enable PS/2 mouse		
JP12	1-2	Normal		
	2-3	Clear CMOS		
JP16	1-2	Enable Super I/O controller		
	2-3	Disable		
JP18-20	<b>JP18</b>	<b>JP19</b>	<b>JP20</b>	<b>CPU voltage</b>
	Closed	Open	Open	VRE Type
	Open	Closed	Open	STD Type

CPU Frequency	JP3	JP4	JP14	JP15
75 MHz	2-3	2-3	2-3	2-3
90 MHz	2-3	1-2	2-3	2-3
100 MHz	1-2	2-3	2-3	2-3

CPU Frequency	JP3	JP4	JP14	JP15
120 MHz	2-3	1-2	2-3	1-2
133 MHz	1-2	2-3	2-3	1-2
150 MHz	2-3	1-2	1-2	1-2
166 MHz	1-2	2-3	1-2	1-2
200 MHz	1-2	2-3	1-2	2-3

### AP 5V

Jumper	Position	Function
JP 5,6	<b>JP5</b>	<b>CPU Type</b>
	Closed	P54C
	Open	P55C
JP 7	1-2	3.45 CPU voltage
	2-3	3.52
JP 8,9	<b>JP8</b>	<b>DIMM Type</b>
	Open	SDRAM
	Closed	EDO/FPM
JP 10,11	<b>JP10</b>	<b>ECP DMA Channel</b>
	1-2	DMA 3
	2-3	DMA 1
JP12	1-2	Normal
	2-3	Clear CMOS
JP 13	1-2	Enable I/O controller
	2-3	Disable
JP 14	1-2	ISA Clk/3
	2-3	ISA Clk/4
JP 15	1-2	Enable PS/2 mouse
	2-3	Disable
JP 16	1-2	12v Flash ROM
	2-3	5v Flash ROM
JP 17,18,20	1-2	Reserved
JP 22,23	2-3	Reserved
JP 24	1-2	8 MHz KB Clock
	2-3	12 MHz KB Clock

CPU Frequency	JP1	JP2	JP3	JP4
75 MHz *	1-2	1-2	1-2	1-2
90 MHz	1-2	1-2	2-3	1-2
100 MHz	1-2	1-2	1-2	2-3
120 MHz	1-2	2-3	2-3	1-2
133 MHz	1-2	2-3	1-2	2-3
150 MHz	2-3	2-3	2-3	1-2
166 MHz	2-3	2-3	1-2	2-3
200 MHz	2-3	1-2	1-2	2-3

### AP 61

#### Pentium Pro

Jumper	Position	Function
JP 1,3	<b>JP1</b>	<b>CPU Frequency</b>
	3-4,5-6,7-8	150 MHz
	1-2,3-4,7-8	180 MHz
	1-2,3-4,7-8	200 MHz
JP 2	2-3	Enable Enhanced IDE
	1-2	Enable Super I/O
JP 5,7	<b>JP5</b>	<b>DMA Channel</b>
	1-2	DMA 1

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	DMA 2
JP 9	1-2	5v Flash ROM
	2-3	12v Flash ROM
JP 10	Open	Enable PS/2 mouse
	Closed	Disable
JP11	Open	Normal
	Closed	Clear CMOS
JP 12	Open	Standard CPU
	Closed	Overdrive
JP 13	1-2, 3-4, 5-6, 7-8	3.5v CPU
	3-4, 5-6, 7-8	3.4
	1-2, 5-6, 7-8	3.3
	5-6, 7-8	3.2
	1-2, 3-4, 7-8	3.1
	3-4, 7-8	3
	1-2, 7-8	2.9
	7-8	2.8
	1-2, 3-4, 5-6	2.7
	3-4, 5-6	2.6
	1-2, 5-6	2.5
	5-6	2.4
	1-2, 3-4	2.3
	3-4	2.2
	1-2	2.1
	Open	VIS (autodetect)

### AP 65-1

#### Pentium Pro

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP3	1-2	3x CPU clock	
	2-3	2.5x CPU clock	
JP5-6	<b>JP5</b>	<b>External bus clock</b>	
	1-2		66 MHz
	2-3		60 MHz
JP7	1-2,3-4,5-6,7-8	3.5v	
	3-4,5-6,7-8	3.4v	
	1-2,5-6,7-8	3.3v	
	5-6,7-8	3.2v	
	1-2,3-4,7-8	3.1v	
	3-4,7-8	3v	
	1-2,7-8	2.9v	
	7-8	2.8v	
	1-2,3-4,5-6	2.7v	
	3-4,5-6	2.6v	
	1-2,5-6	2.5v	
	5-6	2.4v	
	1-2,3-4	2.3v	
	3-4	2.2v	
	1-2	2.1v	
Open	Auto		
JP14	1-2	Normal	
	2-3	Clear CMOS	
JP18	1-2	Enable Super I/O controller	
	2-3	Disable	
JP20	2-3	Disable PS/2 mouse	
	1-2	Enable	

**AP 65-2**

**Pentium Pro**

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JP 1	Open			Normal
	Closed			Clear CMOS
JP 2	<b>JP2</b>	<b>CN13</b>	<b>CN14</b>	<b>CPU Frequency</b>
CN 13,14	3-4,5-6,7-8	2-4,3-5	2-4,3-5	150 MHz
	3-4,5-6,7-8	4-6,1-3	4-6,1-3	166 MHz
	1-2,5-6,7-8	2-4,3-5	2-4,3-5	180 MHz
	1-2,5-6,7-8	4-6,1-3	4-6,1-3	200 MHz
JP 4,5	<b>JP4</b>	<b>JP5</b>		<b>ECP DMA Channel</b>
	1-2	1-2		DMA 3
	2-3	2-3		DMA 1
JP 6	1-2			Enable Super I/O
	2-3			Disable
JP 7	Open			Standard CPU
	Closed			Overdrive
JP 8	1-2, 3-4, 5-6, 7-8			3.5v CPU
	3-4, 5-6, 7-8			3.4
	1-2, 5-6, 7-8			3.3
	5-6, 7-8			3.2
	1-2, 3-4, 7-8			3.1
	3-4, 7-8			3
	1-2, 7-8			2.9
	7-8			2.8
	1-2, 3-4, 5-6			2.7
	3-4, 5-6			2.6
	1-2, 5-6			2.5
	5-6			2.4
	1-2, 3-4			2.3
	3-4			2.2
	1-2			2.1
Open			VIS (autodetect)	
CN 13	1-5			115.2 Kbps (5v) IR module
	2-6			4 Mbit (3.3v)
CN 15	1-2			8 MHz KB Clock
	2-3			12 MHz KB Clock

**AX3S Pro**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	866 MHz/533 MHz	66-166 FSB
Chipset	Intel 815E	
BIOS	Award Die-Hard	
Bus	5 PCI 1 AMR 1 AGP	
Memory (Mb)	512	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 4 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE controllers, UDMA/100

**AX34 Pro**

**Jumperless**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	933 MHz/700 MHz	66-150 FSB
Chipset	Apollo Pro 133A	

Item	Description	Notes
BIOS	Award Die-Hard	
Bus	4 PCI 1 AMR 1 AGP 1 ISA	
Sound	Yamaha YMF752-S	
Memory (Mb)	1.5 Gb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	2 EIDE controllers, UDMA/100

## AX 53

CPU Freq.	JP2	JP3	JP4	JP5	JP8
75 MHz P54C	1-2, 3-4	3-4	1-2, 3-4, 5-6	Open	1-2, 3-4
90 MHz	1-2, 3-4	3-4	1-2, 3-4, 5-6	Open	1-2
100 MHz	1-2, 3-4	3-4	1-2, 3-4, 5-6	Open	3-4
120 MHz	3-4, 5-6	3-4	1-2, 3-4, 5-6	Open	1-2
133 MHz	3-4, 5-6*	3-4	1-2, 3-4, 5-6	Open	3-4*
150 MHz	5-6, 7-8	3-4	1-2, 3-4, 5-6	Open	1-2
166 MHz	5-6, 7-8	3-4	1-2, 3-4, 5-6	Open	3-4
200 MHz	1-2, 7-8	3-4	1-2, 3-4, 5-6	Open	3-4
150 MHz P55C	5-6, 7-8	7-8	Open	1-2, 3-4	1-2
166 MHz	5-6, 7-8	7-8	Open	1-2, 3-4	3-4
200 MHz	1-2, 7-8	7-8	Open	1-2, 3-4	3-4
120+ 6x86	Open	1-2	1-2, 3-4, 5-6	Open	1-2, 3-4
133+	Open	1-2	1-2, 3-4, 5-6	Open	Open
150+	Open	1-2	1-2, 3-4, 5-6	Open	1-2
PR75 K5	1-2	3-4	1-2, 3-4, 5-6	Open	1-2, 3-4
PR90	1-2	3-4	1-2, 3-4, 5-6	Open	1-2
PR100	1-2	3-4	1-2, 3-4, 5-6	Open	3-4

Jumper	Position	Function
JP 1	1-2	ATX power supply off
	3-4	On
JP 3	1-2	3.52v Core CPU Voltage
	3-4	3.43
	5-6	2.9
	7-8	2.8
	9-10	2.7
JP 6	1-2	3.52 I/O voltage
	3-4	3.45
JP 7	1-2	256 K cache
	3-4	512 K cache
JP 9	1-2	Normal
	2-3	Clear CMOS
JP 12	1-2	Enable Super I/O controller
	3-4	Disable
JP 14	Closed	Enable PS/2 mouse
	Open	Disable
JP 15	1-2	Keyboard clock ISA
	3-4	12 MHz
JP 16	1-2	Cache module without tag
	2-3	With tag

**AX59 Pro**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Super Socket 7
Cache	1 Mb	
Chipset	Via MVP3	
BIOS	Award	
Bus	4 PCI/2 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets – 2 SIMM
I/O	2 EIDE, floppy	
Video		AGP

**AX 5T**

Jumper	Position	Function
JP 1,2,3	<b>JP1</b>	<b>CPU Frequency Ratio</b>
	1-2	1.5 (3.5 PMT 233)
	2-3	2
	2-3	2.5 (1.75 PR 166)
JP 4,5,6	<b>JP4</b>	<b>CPU External Clock</b>
	1-2	60 MHz
	2-3	66
	2-3	75
	1-2	83.3 (internal test only)
		SC652B does not support 83.3
JP 9,10	<b>JP9</b>	<b>CPU Type</b>
	1-2,3-4	Open
	Open	1-2,3-4
JP 11	1-2	3.45v Core CPU Voltage
	3-4	3.52
	5-6	2.9
	7-8	2.8
	9-10	3.2
	11-12	2.5
JP 14	1-2	Normal
	2-3	Clear CMOS

**AX 65**

**Pentium Pro**

Jumper	Position	Function
JP1	1-2,3-4,5-6,7-8	3.5v
	3-4,5-6,7-8	3.4v
	1-2,5-6,7-8	3.3v
	5-6,7-8	3.2v
	1-2,3-4,7-8	3.1v
	3-4,7-8	3v
	1-2,7-8	2.9v
	7-8	2.8v
	1-2,3-4,5-6	2.7v
	3-4,5-6	2.6v
	1-2,5-6	2.5v
	5-6	2.4v
	1-2,3-4	2.3v
	3-4	2.2v
	1-2	2.1v
	Open	Auto

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JP3-4	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>CPU Frequency</b>
	3-4	3-4,5-6,7-8	3-4	150 MHz
	1-2	3-4,5-6,7-8	1-2	166 MHz
	3-4	1-2,3-4,7-8	3-4	180 MHz
	1-2	1-2,3-4,7-8	1-2	200 MHz
JP6	2-3			Enable Super I/O controller
	1-2			Disable
JP7	2-3			Keyboard clock as ISA clock
	1-2			12 MHz
JP8	2-3			Disable PS/2 mouse
	1-2			Enable
JP10	2-3			Normal
	1-2			Clear CMOS
JP11,12	<b>JP11</b>	<b>JP12</b>		<b>Flash ROM boot block programming</b>
	1-2	1-2		Enable
	2-3	2-3		Reserved
JP14	2-3			Toggle type power switch
	1-4			Momentary type

### AX 63

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	500	
Chipset	VIA Apollo Pro Plus	
BIOS	Award 4.51PGM	
Bus	5 PCI/2 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	UDMA/66
Video		AGP

### AX63 Pro

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Speeds		133 FSB
Chipset	Via Apollo Pro 133	
BIOS	Award	
Bus	5 PCI	UDMA/33
Memory (Mb)	768 Mb	3 RIMM sockets
I/O	2 EIDE, floppy, ser, par etc	
Video		AGP 2x

### AX 6B(C)(Pro)

Pentium II Jumperless, except for:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP14	1-2	Normal
	2-3	Clear CMOS
JP23	1-2	Auto AGP Turbo
	2-3	Enabled

Item	Description	Notes
Form Factor	ATX	

Item	Description	Notes
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	500	
Chipset	440BX	
BIOS	Award 4.51PGM	
Bus	5 PCI/2 ISA	8x CPU clock multiplier
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP
Performance		Good – better than Gigabyte GA-6BXF

### AX6BC Pro Gold

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Cache		
Chipset	440BX	
BIOS	Award	
Bus	5 PCI/2 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, ser, par etc	
Video		AGP

### AX 6C

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Chipset	Intel 820	
BIOS	Award 4.51PGM	
Bus	5 PCI	
Memory (Mb)	768 Mb	3 RIMM sockets (RDRAM)
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP 4x

### AX 6F

#### Pentium II

Jumper	Position			Function
JP1-2	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>Clock Multiplier</b>
	2-3	1-2	2-3	1.5x
	1-2	1-2	1-2	2x
	1-2	1-2	2-3	2.5x
	1-2	2-3	1-2	3x
	1-2	2-3	2-3	3.5x
	2-3	1-2	1-2	4x
	2-3	1-2	2-3	4.5x
	2-3	2-3	1-2	5x
	2-3	2-3	2-3	5.5x
	1-2	1-2	1-2	6x
	1-2	1-2	2-3	6.5x
	1-2	2-3	1-2	7x
	1-2	2-3	2-3	7.5x
	2-3	1-2	1-2	8x
JP5,6	<b>JP5</b>	<b>JP6</b>		<b>CPU External clock</b>
	1-2	1-2		66 MHz
	2-3	2-3		60 MHz
JP14	1-2			Normal
	2-3			Clear CMOS



## AX 6L(C)(Lite)

As for AX 6B(C), except no JP23

### DP 5

#### Dual Pentium

Selection	JP17	JP18	JP19	JP20	JP21
Single processor	Open	Open	2-3	2-3	1-2
Dual processor	Closed	Closed	1-2	2-3	1-2

Jumper	Position	Function
JP 1	1-2	5v Flash ROM
	2-3	12v Flash ROM
JP 2,3	<b>JP2</b> 1-2 2-3	<b>JP3</b> 1-2 2-3
		<b>ECP DMA Channel</b> DMA 1 DMA 3
JP 4	Open Closed	Enable SCSI Termination Disable
JP 5	Open Closed	Enable PS/2 mouse Disable
JP 6	1-2 2-3	Enable Super I/O Disable
JP 7	1-2 2-3	Enable Enhanced IDE Disable
JP 8	Open	Reserved
JP 9-12	<b>JP9</b> 2-3 1-2	<b>JP10</b> 2-3 1-2
		<b>JP11</b> Open Closed
		<b>JP12</b> Open Closed
		<b>SCSI Device Size</b> 8-bit 16-bit
JP 13	1-3,2-4 1-2,3-4	Enable L2 parity Disable
JP14	Open Closed	Normal Clear CMOS
JP 16,23	JP16 Open 1-3 1-3	JP23 1-2 1-2 1-2
		<b>CPU Type/Speed</b> P54C 75 90 100
JP 22	Open Closed	L1 write-back L1 write through
JP 24,26	<b>JP24</b> 1-2 2-3	<b>JP26</b> 2-3 2-3
		<b>Cache size</b> 256K 512K
JP 25	1-2	Reserved

### MX3W

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		100 FSB
Chipset	Intel 810	
BIOS	Award	
Bus	3 PCI 1 AMR	
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy, joystick, audio	

P5M

Jumper	Position	Function
JP1,2	<b>JP1</b> <b>JP2</b>	<b>CPU Frequency Ratio</b>
	1-2    1-2	1.5 (3.5 for 233 MMX)
	2-3    1-2	2
	2-3    2-3	2.5 (1.75 for PR 166)
	1-2    2-3	3
JP3,4	<b>JP3</b> <b>JP4</b>	<b>CPU External Clock</b>
	2-3    2-3	50
	1-2    2-3	60
	2-3    1-2	66
JP 7	1-2	3.45v CPU core (default for P54C) Single Voltage
	3-4	3.52v Single Voltage
	5-6	3.52v Single Voltage
	7-8	2.9v
	9-10	2.8v
	11-12	3.2v 2.1v
JP 8	1-2	<b>I/O voltage 3.45</b>
	3-4	<b>3.52</b>
JP 9-12	<b>JP9</b> <b>JP10</b> <b>JP11</b> <b>JP12</b>	<b>CPU Type</b>
	1-2,3-4    Open    1-2,3-4    Open	Single Voltage
	Open    1-2,3-4    Open    1-2,3-4	Dual Voltage
JP 14	1-2	Normal
	2-3	Clear CMOS
JP 18	1-2	Enable onboard Super I/O
	2-3	Disable
JP 20	1-2	Enable PS/2 mouse
	2-3	Disable
JP 25	Open	SDRAM
	1-2,3-4	EDO

Appro

www.appro.com

Apricot

Xen-I 386

Jumper	Position	Function
J1	In	256K ROM
	Out*	512K ROM
J3	In	Disable reset
	Out*	Enable reset
J4	In	Non-latched mode
	Out*	Latched mode
J5	In	Disabled ROM
	Out*	Enabled ROM
J6	ST 506 interface	Not used
J7	ST 506 interface	Step rate selected
S1	On*	Enable parallel port
	Off	Disable parallel port
S2	On*	Enable serial port
	Off	Disable serial port
S3	On*	Colour display
	Off	Mono display
S5,6	<b>Memory</b>	<b>5          6          PAL Type</b>

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	1 Mb 256K	Off On LEP8047VA
	2 Mb 256K	On Off LEP8047VA
	4 Mb 1 Mb	Off On L4M047VA
	5 Mb 1 Mb/256K	On Off L4M047VA
	8 Mb 1 Mb	Off Off L4M047VA
S7,8		Reserved – do not use

### Xen-S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
SW1,2	<b>Processor</b>	<b>SW1 SW2</b>
	80386sx	On Off
	80286	Off On
SW3,5,6	<b>Monitor</b>	<b>SW3 SW5 SW6</b>
	Enable colour	On On On
	Disable colour	Off Off Off
SW4	On	12.5 MHz
	Off	16 MHz
SW7		Processor 20 MHz override
SW8		Corprocessor speed select
SW9-S1	On	Enable password
	Off	Disable password
SW9-S2	On	Enable COM1
	Off	Disable COM1
SW9-S3	On	Enable floppy
	Off	Disable floppy
SW9-S4	On	Enable HD controller
	Off	Disable HD controller
SW9-S5	On	Enable COM2
	Off	Disable COM2
SW9-S6	On	Enable Ethernet
	Off	Disable Ethernet
SW9-S7	On	Enable LPT1
	Off	Disable LPT1
SW9-S8	On	Enable colour
	Off	Disable colour
SW10	On	Enable thick Ethernet cable
	Off	Disable thick Ethernet cable

### Aprocom

[www.aprocom.com](http://www.aprocom.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	Nex586v		

### Nex586v

Fordlian 5IVXA

Arche

Parade 88

Jumper	Position	Function
JP15	Out	Parallel port=LPT1
	In	Parallel port=LPT2
JP11	In	Enable game port
	Out	Disable game port
JP16	1-2	Enable floppy
	2-3	Disable floppy
JP10	In	Composite signal monitors
	Out	Colour/multiscan monitors
JP12	1-2	Clock 1 enable
	2-3	Clock 2 disable

Rival 386

Jumper	Position	Function
JP1,2	<b>CoProcessor</b>	<b>JP1</b> <b>JP2</b>
	There	Out    In
	Not there*	In    Out
JP3	In	Colour display
	Out	Mono display
JP4(P4)	1-2*	Power Good from Power Supply
	2-3	Power Good generated on board
JP5	In*	Onboard rechargeable battery
	Out	External battery on J4

Parade 286

ATM 1260V

Jumper	Position	Function
J1	Out	Other BIOS 27128 x 2 (U28L/U27H)
	In	DTK BIOS or other 27256 x 2 (U28L/U27H)
J9,15,17	<b>Parallel Port</b>	<b>J15</b> <b>J17</b> <b>J9</b>
	LPT1 enabled	In    In    1-2
	LPT2 enabled	Out    Out    2-3
	LPT1 disabled	Out    In
	LPT2 disabled	In    Out
J18,21	<b>Serial Port 1&amp;3</b>	<b>J18</b> <b>J21</b>
	COM1 enabled	In    In
	COM3 enabled	Out    Out
	COM1 disabled	Out    In
	COM3 disabled	In    Out
J19,20	<b>Serial Port 2&amp;4</b>	<b>J18</b> <b>J21</b>
	COM2 enabled	In    In
	COM4 enabled	Out    Out
	COM2 disabled	Out    In
	COM4 disabled	In    Out
J22	In	Colour display
	Out	Mono display
J8	In	1 wait state
	Out	0 wait state
J16	In	Enable floppy
	Out	Disable floppy
J10,11	Display	J10    J11
	Enable Mono	In    In
	Disable Mono	Out    Out

## Parade 286 Plus

### AMA1240V3

<i>Jumper</i>	<i>Position</i>	<i>Function</i>				
S3	On	Parity check enabled				
	Off	Parity check disabled				
S4	On	EMS port address 0E8-0EFH				
	Off	EMS port address 098-09FH				
S6-8	<b>Memory Size</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>	<b>Bank0</b>	<b>Bank1</b>
	512K	On	On	On	512K	None
	640K	On	On	Off	512K	
	640+384K	On	Off	On	512K	512K
	640+384K (24 EMS)	On	Off	Off	512K	512K
	640+1408K	Off	On	On	2Mb	None
	640+1408K (88 EMS)	Off	On	Off	2Mb	None
	640+3456K	Off	Off	On	2Mb	2Mb
JP7,9	<b>Clock speed</b>	<b>JP7</b>	<b>JP9</b>			
	External	In	1-2			
	Low speed	Out				
	High speed	Out				
JP12	1-2	IRQ7				
	2-3	IRQ5				
JP13	1-2	IRQ4				
	2-3	IRQ5				
JP14	1-2	IRQ3				
	2-3	IRQ5				
JP15	1-2	COM1 address 3E8-3EF				
	2-3	COM1 address 3F8-3FF				
JP16	1-2	COM2 address 2E8-2EF				
	2-3	COM2 address 2F8-2FF				
JP17	1-2	LPT1 address 378-37F				
	2-3	LPT1 address 278-27F				
JP18	1-2	Floppy address 3F0-3F7				
	2-3	Floppy address 370-377				
JP19	1-2	2-speed drive				
	2-3	Fixed speed drive				
J20	1-2	Enable floppy				
	2-3	Disable floppy				
J23-25	<b>HD Status</b>	<b>J23</b>	<b>J24</b>	<b>J25</b>		
	Enabled	1-2	1-2	1-2		
	Disabled	2-3	2-3	2-3		

### AMA232C-16S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2*	Normal ops
	2-3	Clear CMOS
JP3	1-2*	Enable floppy
	2-3	Disable floppy
JP4	1-2*	Enable COM2
	2-3	Disable COM2
JP5	1-2*	Enable parallel port
	2-3	Disable parallel port
JP6	1-2*	Enable COM1
	2-3	Disable COM1
JP7	In*	Enable Onboard HD
	Out	Disable Onboard HD

Jumper	Position	Function
JP11	1-2	1 VGA BIOS
	2-3	2 VGA BIOS
JP13	1-2	Non-interlaced monitor
	2-3	Interlaced monitor
JP14	In	Enable IRQ9
	Out	Disable IRQ9
JP15,16	<b>Display type</b>	<b>JP15</b> <b>JP16</b>
	Enable VGA	In        In
	Disable VGA	Out       Out
JP17	1-2	256K BIOS
	2-3	128K BIOS
JP23	1-2	1 VGA BIOS
	2-3	2 VGA BIOS

**KMA232F-12S**

Jumper	Position	Function					
S1-1	On*	Reserved – do not change					
S1-2	Off	48-49KHz horizoNtal scan (non-interlaced)					
	On	Lower scan rates (interlaced)					
S1-3	Off	Fast address decode					
	On	Slow address decode					
S1-4	Off*	16-bit data path (VGA)					
	On	8-bit data path (VGA)					
JP1	Out	Disable HD					
	In	Enable HD					
JP3,J3	<b>LPT address</b>	<b>J3</b> <b>JP2</b>					
	378	LPT1       2-3					
	278	LPT2       278					
JP4	1-2	Enable COM2					
	2-3	Disable COM2					
JP3	1-2*	Enable floppy					
	2-3	Disable floppy					
JP6	Out*	Normal ops					
	In	Allows use of network cards without IRQ9 conflict					
JP7	In*	Enable CGA					
	Out	Enable Mono					
JP8-13	1-2	SIMMs					
	2-3	DIP DRAM					
JP14-16	<b>DRAM size</b>	<b>Base</b> <b>Ext</b> <b>Shad</b> <b>JP14</b> <b>JP15</b> <b>JP16</b>					
		512			In	In	In
		640	384		In	In	Out
		640			In	Out	In
		640	256	128	In	Out	Out
		640	1408		Out	In	In
		640	1280	128	Out	In	Out
	640	3328	128	Out	Out	Out	
JP18	<b>2 DRAM</b>	<b>4 DRAM</b>					
		3-4					
		2-4	1-2				
JP17	1-2	Maths copro 12 MHz					
	2-3	Maths copro 8 MHz					
	All in	Maths copro 4 MHz					

**Parade 386sx**

**AMA1600V**

Jumper	Position	Function
JP1	In*	CGA

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Out	Mono
JP3	In*	Enable HD
	Out	Disable HD
JP6	1-2	Enable floppy
	2-3*	Disable floppy
JP11	In*	Pipeline operation
	Out	Non-pipeline
JP19	In*	Floppy IRQ enabled
	Out	Floppy IRQ disabled

### *Parade 386sx*

KMA932C-16S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2,17	<b>Floppy</b>	<b>JP2</b> <b>JP17</b>
	Enable	In          Out
	Disable	Out        In
JP16	In*	Primary display VGA
	Out	Primary display Mono
JP18	In*	Enable 1 <sup>st</sup> serial port
	Out	Enable 1 <sup>st</sup> serial port
JP19	In*	Enable 2 <sup>nd</sup> serial port
	Out	Enable 2 <sup>nd</sup> serial port
JP20	In*	Enable HD
SW1-S1	On	Multifrequency display timing
	Off	Standard frequency timing
SW1-S2	On	PS/2 style - all VGA modes
	Off	AT style – colour modes on colour monitors, Mono on Mono
SW1-S3		Reserved
SW1-S4	On	16-bit video memory path – autosense 16-bit BIOS
	Off*	8-bit video memory path and BIOS

### *Rival 386sx*

AMA2000

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	In	Mono display
	Out	Colour display
JP2	1-2	Clear CMOS
	2-3*	Normal ops
JP4	In*	Pipeline operation
	Out	Non-pipeline

### *Rival 386-20*

PAT386+

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	In*	Onboard battery
	Out	External battery on J2
JP2	In*	Colour display
	Out	Mono display
JP4	1-2*	Power good generated on board
	2-3	Power good from power supply
JP5	1-2	CPU Clock (SCLK)
	2-3	Oscillator 3

JP6,7	<b>Maths copro</b> Not there There	<b>JP6</b> In* Out	<b>JP7</b> Out In
J4	1-2* 3-4	Turbo mode Deturbo (emulate 10MHz AT)	

### Rival 386-25C

KMA300G-25

Jumper	Position	Function		
JP3	1-2	Clear CMOS		
	2-3*	Normal ops		
JP4	In*	Pipeline		
	Out	Non-pipeline		
JP5	1-2*	Enable CPU NMI pin		
	2-3	Disable CPU NMI pin		
JP6	1-2*	Enable CPU hold (Bus hold request) pin		
	2-3	Disable CPU hold (Bus hold request) pin		
JP7	1-2*	Enable CPU INIR		
	2-3	Disable CPU INIR		
JP8	1-2*	ATCLK from ICLK/2		
	2-3	ATCLK from 14.318 MHz OSC/2		
JP10		Reserved		
JP12,13,20	<b>Cache</b>	<b>JP12</b>	<b>JP13</b>	<b>JP20</b>
	32K	Out	1-2	1-2
	64K	In	2-3	2-3
JP18	In*	Colour display		
	Out	Mono display		

### Rival 386-25

AMA2530

Jumper	Position	Function
W1	1-2	128K EPROM
	2-3*	256K EPROM
W19	In*	8 MHz bus speed
	Out	12.5 MHz bus speed
JP1	In	256K SIMM DRAM
	Out*	1Mb SIMM DRAM
W21	1-2	Cache mode
	2-3*	Page mode
SW1-1		Reserved
SW1-2	On	Maths copro installed
SW1-3	On	CKM=0, CLK divided internally by 3 by 80287
	Off	CKM=1, 1/3 duty cycle CLK connect to 80287
SW1-4,5		Reserved
SW1-6	On	CGA
	Off	Mono
SW1-7	On	80387 installed, if SW1-2 is On
	Off	80287 installed, if SW1-2 is On
SW1-8		Reserved

### Arima

### Aristo

www.aristo-world.com



### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	AM 430TX	EC-00	AM 439VX
EC	AM 430TX+	GC	AM 430TX+

### AM 430TX

Vtech/PC Partner MB 540N/Yellow Dragon TX

### AM 439VX

VTech/PC Partner MB 520NH

### Arstoria

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC	AS 496		

### Arvida

See also Seanix [www.arvida.ca](http://www.arvida.ca) [www.seanix.com](http://www.seanix.com)

### ASI

Aquarius Systems Inc

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	MB 4D33/50NR-02	1-00	MB 4DUVC
0-30	MB 4D33/50NR-02	2	MB 54VP v2.1
1	MB 5DVP/54VP v2.1	9C-00	MB 4DSP 1.1
1	MB 4DUPM/E v3.0	KC-00	MB 4DUPC

### ASK Technology

[www.asiansources.com/asktech.co](http://www.asiansources.com/asktech.co)

### Aspen Systems

[www.aspsys.com](http://www.aspsys.com)

### AST

### Advantage! 4/33s

Jumper	Position	Function
E1	1-2*	Parallel port IRQ7

Jumper	Position	Function
	2-3	Parallel port IRQ5
E2	On	25 MHz CPU external speed
	Off	33 MHz CPU external speed
E3	On*	Enable VGA
E4	On	Primary display Mono
	Off*	Primary display colour
E5	On	Override password (borrow jumper at E1)
	Off*	Enable password
E6-10	<b>CPU</b>	<b>E6</b> <b>E7</b> <b>E8</b> <b>E9</b> <b>E10</b>
	80486SX (PQFP)	1-2      On      2-3      1-2      2-3
	80486SX (PGA)	1-2      Off      1-2      2-3      1-2
	80487SX/ODP	1-2      On      2-3      1-2      2-3
	80486DX/DX2/ODPR	1-2      On      1-2      2-3      2-3
	Pentium Overdrive	2-3      On      2-3      1-2      2-3
E14	On*	Enable game port (501540 only)

*Advantage! 4/50(s)(d)*

As for Advantage! 4/33s

*Advantage! Adventure 4/33s*

As for Advantage! 4/33s

*Advantage! Adventure 4/50(s)(d)*

As for Advantage! 4/33s

*Advantage! 4050d*

As for 4066d.

*Advantage! 4066d*

Jumper	486SX	486DX 486DX2	487SX	486SX 486SL	486DX DX2/SL	Cyrix DX2-SL	AMD DX2-SL
1201	Off	On	On	Off	On	On	On
1202	2-3	1-2	1-2	2-3	1-2	1-2	1-2
1203	Off	Off	Off	On	On	Off	Off
1204	Off	Off	Off	On	On	Off	Off
1205	Off	Off	Off	Off	Off	Off	Off
1206	Off	2-3	1-2	Off	2-3	2-3	2-3
1207	Off	Off	Off	On	On	Off	Off
1208	Off	Off	Off	2-3	2-3	2-3	1-2
1209	Off	Off	Off	Off	Off	Off	On
1210	Off	Off	Off	Off	Off	Off	On
1211	Off	Off	Off	Off	Off	Off	On*
1212	Off	Off	Off	Off	Off	On	Off
1213	Off	Off	Off	Off	Off	On	Off
1301	1-2	1-2	1-2	1-2	1-2	2-3	2-3
1302	1-2	1-2	1-2	1-2	1-2	2-3	2-3

\* on means that pins 1-2, 3-4 and 5-6 are covered by a jumper.

Jumper	25/50 MHz	33/66 MHz
1171	Off	On
1172	Off	On
1173	On	On

Jumper	5v	3.3v
1214	On	Off
1215	Off	On
1216	2-3	2-3
1217	Off	On

### Advantage! 4075p

Jumper	Position			Function
1020				Test – leave Off
1104				Test – leave Off
1152-4	<b>1152</b>	<b>1153</b>	<b>1154</b>	<b>CPU speed</b>
	On	Off	Off	50/75 MHz*
	Off	On	Off	60/90 MHz
	On	Off	On	66/100 MHz
1350	Off*			Standard LPT
	2-3			ECP
1351	Off*			Standard LPT
	2-3			ECP
1505				See table
1506				Test – leave Off
1961	Off*			Normal boot
	On			Clear CMOS at boot

Total	1501 (Bk 0)	1502 (Bk 1)	1503 (Bk 1)	1504 (Bk 1)	1505
2	1	1	-	-	Off
4	1	1	1	1	1-2
4	2	2	-	-	Off
8	2	2	2	2	2-3
8	4	4	-	-	Off
16	4	4	4	4	1-2
16	8	8	-	-	Off
20	2	2	8	8	2-3
32	8	8	8	8	2-3
32	16	16	-	-	Off
36	16	16	8	8	1-2
40	4	4	16	16	1-2
48	8	8	16	16	2-3
64	16	16	16	16	1-2
64	32	32	-	-	Off
80	8	8	32	32	2-3
128	32	32	32	32	2-3

### Advantage! 6033s

Jumper	Position		Function				
E1	1-2*		Parallel port IRQ 7				
	2-3		Parallel port IRQ 5				
E2	On		CPU external speed 25 MHz				
	Off		CPU external speed 25 MHz				
E3	On*		Enable VGA				
E4	On		Mono				
	Off*		CGA				
E5	On		Override password				
	Off*		Allow password				
			To override a password, borrow the jumper at E1 (don't forget to replace it).				
E6-10	<b>CPU</b>		<b>E6</b>	<b>E7</b>	<b>E8</b>	<b>E9</b>	<b>E10</b>
	80486SX (PQFP)		1-2	On	2-3	1-2	2-3

Jumper	Position	Function
	80486SX (PGA)	1-2 Off 1-2 2-3 1-2
	80487SX; ODP	1-2 On 2-3 1-2 2-3
	80486DX; DX2; ODP	1-2 On 1-2 2-3 2-3
	Pentium Overdrive	2-3 On 2-3 1-2 2-3
E14	On	Update BIOS at boot
	Off*	Normal boot
E17		Reserved – leave on 2-3
E18		Microphone input – leave Off

**Advantage! 6060p**

Jumper	Position	Function
E1	1-2	Future upgrades
	2-3*	Pentium 75/90/100
E2,3,7	<b>Bus Speed (MHz)</b>	<b>E2 E3 E7 E2 E3 E7</b>
	50 (P75)	Off On On Off On Off
	60 (P90)	Off On Off Off On On
	66 (P100)	On On Off On On On
Left set of figures apply if an IMI415 is at U7. Right set apply if an IMI470 is installed.		
E4		Manufacturer test
E5		Manufacturer test
E6		Manufacturer test
E8		Manufacturer test
E9	On*	Colour
	Off	Mono
E10	On*	Enable access to setup
	Off	Disable access to setup
E11	On*	Enable video
	Off	Disable video
E12	On*	Allow password
	Off	Override Password
E13	On*	Normal boot
	Off	Force flash update at boot

**Advantage! 6066d**

As for Advantage! 610/611

**Advantage! 6075p**

As for Advantage! 6060p, except E14 (On=update BIOS at boot. Off=normal).

**Advantage! 610**

Jumper	Position	Function
E1	Off*	Reserved
E2	Off*	Reserved
E3	On*	Enable VGA
	Off	Disable VGA
E4	On	Mono
	Off*	CGA
E5	On	Override password
	Off*	Allow password
E6-10	<b>CPU</b>	<b>E6 E7 E8 E9 E10</b>
	80486SX	1-2 Off Off** 2-3 1-2
	80487SX; ODP	1-2 On Off** 1-2 2-3
	80486DX; DX2; ODP	1-2 On Off** 2-3 2-3
	Pentium Overdrive	2-3 On Off** 2-3 2-3

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
		** E8 is reserved – always Off Socket set for 3,345v
E14	On Off*	Update BIOS at boot Normal boot
E17		Reserved – leave on 2-3
E18		Microphone input – leave Off

To override a password or force a BIOS update, borrow the jumper from E7 (don't forget to replace it).

### *Advantage! 611*

As for 610, except:

<b>CPU</b>	<b>E6</b>	<b>E7</b>	<b>E9</b>	<b>E10</b>
Cyrix 5x86	1-2	Off	2-3	2-3
486DX4/100	1-2	Off	2-3	2-3
OverDrive	1-2	Off	1-2	2-3

### *Advantage! 612*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
J4 K1	1-2	ISA bus 1/3 PCI clock speed		
	2-3*	ISA bus 1/4 PCI clock speed		
	4-5*	Allow access to setup		
	5-6	Deny access to setup		
J5 J1-2	<b>CPU speed</b>	<b>PCI</b> <b>J1</b> <b>J2</b>		
	75	25	1-2,4-5	1-2,4-5
	90	30	1-2,5-6	1-2,4-5
	100	33	2-3,4-5	1-2,4-5
	120	30	1-2,5-6	2-3,4-5
	133	33	2-3,4-5	2-3,4-5
	150	30	1-2,5-6	2-3,5-6
	166	33	2-3,4-5	2-3,5-6
J5 K2	1-2*	Normal boot		
	2-3	Clear CMOS at boot		
	4-5*	Enable password		
	5-6	Clear and disable password		
J6 A2	1-2*	Standard CPU voltage (3.3v)		
	2-3	VRE CPU voltage (3.6v)		

### *Advantage! 613e*

As for Advantage! 611

### *Advantage! 614*

As for Advantage! 612

### *Advantage! 621*

As for Advantage! 612

### *Advantage! 623/624*

As for Advantage! 612

*Advantage! 625/626*

As for Advantage! 612

*Advantage! 628*

As for Advantage! 612

*Advantage! 7301*

<i>Jumper</i>	<i>Position</i>		<i>Function</i>	
J1F1A	1-2*		Normal boot	
	2-3		Erase password	
	4-5*		Normal boot	
	5-6		Reset CMOS at boot	
J1F1B	1-2*		Allow access to CMOS setup	
	2-3		Deny access	
	4-5		Standard CPU voltage (3.3v)	
	5-6		VRE CPU voltage (3.6v)	
J1F1	<b>CPU</b>	<b>PCI</b>	<b>J1F1C</b>	<b>J1F1D</b>
	25		2-3,5-6	1-2,4-5
	30		2-3,4-5	1-2,4-5
	100	33	1-2,5-6	1-2,4-5
	120	30	2-3,4-5	2-3,4-5
	133	33	1-2,5-6	2-3,4-5
	150	30	2-3,4-5	2-3,5-6
	166	33	1-2,5-6	2-3,5-6
	180	30	2-3,4-5	1-2,5-6
	200	33	1-2,5-6	1-2,4-5
J5G1	1-2,4-5*		Manufacturer's test	

60 ns EDO RAM is installed at the factory. You can mix EDO and FPM but not within banks

*Advantage! 7302*

As for 7301.

*Advantage! 7303*

As for 7301, but with J9B1 for Flash BIOS recovery in position 2-3 (1-2 is default for normal boot).

*Advantage! 8066d*

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	On	Force flash BIOS update at boot
	Off*	Normal boot
S2	On*	Allow password
	Off	Override password
S3	On*	Primary display colour
	Off	Primary display is Mono
S4	On	Deny access to setup
	Off*	Allow access
S5	On*	Enable VGA
	Off	Disable
S6		Reserved
S7		Reserved
S8		Reserved

*Advantage! 8090p*

As for 6075p.

*Advantage! 810*

As for 612.

*Advantage! 811*

As for 612.

*Advantage! 812*

As for 612.

*Advantage! 814*

As for 612.

*Advantage! 816*

As for 612.

*Advantage! 818*

As for 612.

*Advantage! 821*

As for 612.

*Advantage! 822*

As for 612.

*Advantage! 823*

As for 612.

*Advantage! 824*

As for 612.

*Advantage! 826*

As for 612.

*Advantage! 828*

As for 612.

*Advantage! 9303*

As for 7301, but with J9B1 for Flash BIOS recovery in position 2-3 (1-2 is default for normal boot).

### Advantage! 9304

As for 7301.

### Advantage! 9306

As for 7301.

### Advantage! Adventure 8060p

As for Advantage! 6060p except E4-E6 depend on the board version – look under the AST logo for a part number with an extension of either -3-1 or -302. For the former, E4-E6 should be Off. For the latter, E4 in means cache is installed. E4-E6 on means no external cache.

### Advantage! Adventure 8066d

Jumper	Position	Function
E1	On	Overdrive L1 cache write through
	Off	Overdrive L1 cache write back
E2	1-2	Disable PQFP CPU
	2-3	Enable
E3	1-2	Standard 486SX or DX
	2-3	Pentium Overdrive or w/b 486DX
see also E10		
E4	Off	3x internal CPU speed (DX4)
	1-2	2.5x
	2-3	2x
E5	On	256K L2 cache
	Off	64K L2 cache
E6		Reserved – leave on 1-2
E7	1-2	25 MHz PCI bus speed
	2-3	33 MHz PCI bus speed
E8	On	Clear CMOS at boot
	Off	Normal boot
E9	On	25 MHz host bus speed
	Off	33 MHz
See also E7		
E10	On	Standard 486 PGA CPU (w/t cache)
	Off	Enhanced 486 PGA CPU (w/b cache)
E11	1-2	Intel CPU
	2-3	Cyrix CPU
E12	1-2	Intel CPU
	2-3	Cyrix CPU
E13	1-2	Intel CPU
	2-3	Cyrix CPU
E14	1-2	Intel CPU
	2-3	Cyrix CPU
E15	On	Intel CPU
	Off	Cyrix CPU
E16	Off	5v Intel/Cyrix CPU
	1-2	3v Cyrix
	2-3	3v Intel

Switch	Position	Function
S1	On	Force flash BIOS update at boot
	Off*	Normal boot



Switch	Position	Function
S2	On*	Allow password
	Off	Override password
S3	On*	Primary display colour
	Off	Mono
S4	On	Deny access to setup
	Off*	Allow access
S5	On*	Enable VGA
	Off	Disable
S6		Reserved – leave On
S7		Reserved – leave On
S8		Reserved – leave On

### *Advantage! Adventure 8075p*

As for Advantage! 6060p.

### *Advantage! Adventure 8090p*

As for Advantage! 6060p except E4-E6 depend on the board version – look under the AST logo for a part number with an extension of either 3-1 or 302. For the former, E4-E6 should be Off. For the latter, E4 in means cache is installed. E4-E6 on means no external cache.

### *Advantage! Adventure 8100p*

Jumper	Position	Function	
S1		Reserved – leave On	
S2		Reserved – leave On	
S3	On	Override password	
	Off*	Allow password	
S4	On	Clear CMOS	
S5	On	Deny access to setup	
	Off*	Allow access	
S6	Off	CPU speed external x 1.5	
	On	CPU speed external x 2	
S7-8	<b>7</b>	<b>8</b>	<b>CPU external speed</b>
	Off	Off	75 MHz
	On	Off	90 MHz
	Off	On	100 MHz
	On	Off	120 MHz
	Off	On	133 MHz

J5J1 should left on 1-3 and 5-7 and J9C1 on 2-3 for 100/133 MHz. Change J9C1 to 1-2 for 120 MHz (VRE). For a failed BIOS update, force a read of an update file from floppy by moving J5J1 to position 1-2.

### *Advantage! Adventure 8120p*

As for Adventure 8100p.

### *Advantage! Adventure 8133p*

As for Adventure 8100p.

### *Advantage! EXP P/60*

Jumpers are in 3-pin blocks, grouped in pairs, positioned front-rear looking from the front.

230822-001 board

Jumper	Position	Function
J7A1	Rear L Pair	Enable video
	Front L Pair	Disable
	Rear R Pair	60 MHz
	Front R Pair	66 MHz
J13H3	Rear L Pair	Primary display colour
	Front L Pair	Primary display Mono
	Rear R Pair	Disable access to CMOS
	Front R Pair	Enable access
J13H1	Rear L Pair	Clear CMOS at boot
	Front L Pair	Disable
	Rear R Pair	Disable password
	Front R Pair	Enable password
J12H1	Rear L Pair	Disable flash BIOS recovery
	Front L Pair	Enable flash BIOS recovery
	Rear R Pair	Disable flash BIOS write protect
	Front R Pair	Enable

230822-002 board

Jumper	Position	Function
J7A1		Inactive
	Rear R Pair	60 MHz
	Front R Pair	66 MHz
J12G5	Rear L Pair	Primary display colour
	Front L Pair	Primary display mono
	Rear R Pair	Disable access to CMOS
	Front R Pair	Enable access
J12G1	Rear L Pair	Clear CMOS at boot
	Front L Pair	Disable
J12H1	Rear R Pair	Disable password
	Front R Pair	Enable password
	Rear L Pair	Disable flash BIOS recovery
	Front L Pair	Enable flash BIOS recovery
	Rear R Pair	Disable flash BIOS write protect
	Front R Pair	Enable

Advantage! Plus 4/25

Jumper	Position	Function
E1	Off	Reserved
E2	Off	Reserved
E3	On*	Enable video
	Off	Autosense add-in video
E4	On	Primary display Mono
	Off*	Primary display colour
E5	On	Override password (borrow jumper at E7)
	Off*	Enable Password
E6,7,9,10	<b>CPU</b>	<b>E6</b> <b>E7</b> <b>E9</b> <b>E10</b>
	80486SX	1-2    Off    2-3    1-2
	80486DX/DX2	1-2    On    2-3    2-3
Upgrades are not supported		
E8	Off	Reserved
E14	On	Update BIOS at boot
	Off*	Normal ops
E16	Off	Reserved

Advantage! Plus 4/33 (Mylex)

Jumper	Position	Function
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<i>Jumper</i>	<i>Position</i>				<i>Function</i>
JP1	On*				Colour display
	Off				Mono
JP8-10	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>		<b>CPU Type</b>
	Off	2-3	Off		486SX
	2-3	1-2	On		487SX
	1-2	1-2	On		DX, DX2
	2-3	1-2	On		ODP
JP7, 11-13	1-2	1-2	On		ODPR
	<b>JP7</b>	<b>JP11</b>	<b>JP12</b>	<b>JP13</b>	<b>Cache Size</b>
	Off	Off	Off	Off	64K/none
	On	On	Off	On	256K
JP14-17	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>CPU Speed</b>
	2-3	2-3	1-2	2-3	25/50 MHz
	2-3	1-2	1-2	2-3	33/66 MHz
JP18	Off				Reserved
JP19	1-2				LPT IRQ5
	2-3*				LPT IRQ7
JP20	1-2*				Enable I/O
	2-3				Disable
JP21	Off				External battery at JP22
	1-2				Clear CMOS
	2-3*				Internal battery

### Advantage! Plus 4/33 (MT)

<i>Jumper</i>	<i>Position</i>						<i>Function</i>
S1	On						Disable video
S2	Off						Reserved
S3	On						Force flash BIOS update at boot
	Off*						Normal boot
S4	On						Override password
	Off*						Enable password
S5	On*						Primary display colour
	Off						Mono
S6	Off						Reserved
S7	Off						Reserved
S8	On						Deny access to setup
	Off*						Allow access
E5	On						Clear CMOS at boot
	Off*						Normal boot
E6-8	<b>E6</b>	<b>E7</b>	<b>E8</b>			<b>Cache size</b>	
	1-2	Off	Off			64K/none	
	2-3	On	On			256K	
E9-13	<b>E9</b>	<b>E10</b>	<b>E11</b>	<b>E12</b>	<b>E13</b>	<b>CPU Type</b>	
	Off	2-3	1-2	Off	2-3	486SX	
	1-2	1-2	2-3	On	2-3	487SX	
	2-3	1-2	1-2	On	2-3	DX, DX2	
	1-2	1-2	2-3	On	2-3	Overdrive (ODP)	
	2-3	1-2	1-2	On	2-3	Overdrive (ODPR)	
	1-2	1-2	2-3	On	1-2	Pentium Overdrive	
E14	1-2						Reserved
E15	1-2*						LPT IRQ7
	2-3						LPT IRQ5
E16	On						CPU external speed 33 MHz
	Off						CPU external speed 25 MHz
E800							Reserved – leave on 2-3
E801							Reserved – leave on 1-2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E802	1-2 2-3*	Enable monitor power conservation Disable
E803		Reserved – leave on 1-2
E804		Reserved – leave on 1-2

*Advantage! Plus 4/50d*

As for Advantage Plus 4/25

*Advantage! Plus 4/50d (Mylex)*

As for Advantage! Plus 4/33 (Mylex).

*Advantage! Plus 4/66d*

As for Advantage Plus 4/25

*Advantage! Plus 4/66d (Mylex)*

As for Advantage! Plus 4/33 (Mylex).

*Advantage! Plus 4/66d (MT)*

As for Advantage! Plus 4/33 (MT).

*Advantage! Plus 5/100*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	On Off*	VGA IRQ enabled VGA IRQ disabled
JP3-5 BF0,BF1	<b>CPU Bus (MHz)</b> 50 66 50 60 66 60 166 66	<b>JP3 JP4 JP5 BF0 BF1</b> Off Off Off 1&2 Off On Off On 1&2 Off On Off Off 2&3 Off (Cyrix M1) On On Off 2&3 Off (Cyrix M1) On Off On 2&3 Off On On Off 2&3 On On Off On 2&3 On
JP8	1-2* 2-3	Asynchronous L2 cache Synchronous Pipeline Burst L2 cache
JP9	On Off	CPU VR voltage (3.3-3.4v) CPU VRE voltage (3.4v-3.6v)
JP14	On* Off	Allow password Override password

*Advantage! Plus 5/75*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1,19	<b>CPU Ext Speed (MHz)</b> 20 25 33* 33*	<b>JP1 JP19</b> 1-2 3-4 1-2 5-6
JP2	On* Off	Allow password Override and erase password
JP3-9	<b>CPU Type</b> i486/Cyrix 5x86* Cyrix 486	<b>JP3 JP4 JP5 JP6 JP7 JP8 JP9</b> Off On On On Off On Off On Off Off Off Off Off On

See also JP20-23

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP11	1-2*	DX CPU
	2-3	SX CPU
JP16	1-2*	128K L2 cache
	2-3	256K L2 cache
JP17	1-2*	Leave on pins 1-2 (L2 cache size)
JP20-23	<b>CPU Type</b>	<b>JP20</b> <b>JP21</b> <b>JP22</b> <b>JP23</b>
	i486/Cyrix 5x86*	Off    Off    Off    Off
	Cyrix 486	On    Off    On    Off
See also JP 3-9		
JP29	On*	Enable video
JP30	On*	Primary display colour
	Off	Primary display Mono
JP31	On*	Normal boot
	Off	Force flash update at boot
V1-V4	On	5v
	Off*	3.45v

### Advantage! Plus EXP P/60

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1		Reserved – leave Off
S2	On*	Colour adapter
	Off	Mono
J17,25	None	No DMA channel for EPP
	1-2	Channel 0
	3-4	Channel 1
	5-6	Channel 2
J18	1-2*	LPT IRQ7
	2-3	LPT IRQ5
J19	1-2*	COM1 IRQ4
	2-3	COM1 IRQ3
J20	1-2*	COM2 IRQ3
	2-3	COM2 IRQ4
J28	1-2*	Enable mouse
	2-3	Disable
J30,31	<b>Cache size</b>	<b>J30</b> <b>J31</b> <b>J52</b> <b>J53</b> <b>J54</b>
	52-54	256K    Off    Off    1-2    1-2    1-2
		512K    On    On    2-3    2-3    2-3
J38	1-2,5-6	60 MHz
	3-4	66 MHz
J51	Off*	Write protect flash BIOS
	On	Allow update

### Advantage! Pro 4/100t

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1,6,20	Cache	<b>E1</b> <b>E6</b> <b>E20</b>
	Write-through	1-2    1-2    Off
	Write-back	2-3    2-3    On
E1=VL Bus; E6=Pentium Overdrive; E20=Cyrix DX2		
E2	1-2*	Parallel port IRQ7
	2-3	Parallel port IRQ5
E3,4,5,13	CPU	<b>E3</b> <b>E4</b> <b>E5</b> <b>E13</b>
	80486SX (LIF socket)	1-2    1-2    1-2    On
	80486 (PQFP)	2-3    2-3    2-3    Off

Jumper	Position	Function			
	Pentium Overdrive	2-3	1-2	2-3	On
	All other (168/169 pin)	2-3	2-3	2-3	On
DX2 boards support 5v only; DX4 boards support 3v only					
E7	On*	Enable VGA			
E8	On*	Primary display colour			
	Off	Primary display Mono			
E9	On*	Reserved – leave On			
E10	On*	Enable password			
	Off	Disable password			
E11	Off*	Reserved – leave Off			
E12,14	Cache size	E12	E14		
	256K cache	On	On		
	64K or no cache	Off*	Off*		
E15	On	25 MHz CPU external speed			
	Off	33 MHz CPU external speed			
E16	Off*	Reserved – leave Off			
E17,18,19	<b>CPU Brand</b>	<b>E17</b>	<b>E18</b>	<b>E19</b>	
	Intel	1-2	1-2	1-2	
	Cyrix	2-3	2-3	2-3	

*Advantage! Pro 4/25s*

Jumper	Position	Function						
E1,2,3	<b>Cache size</b>	<b>E1</b>	<b>E2</b>	<b>E3</b>				
	256K cache	On	On	On				
	64K or no cache	Off*	Off*	Off*				
E4	On*	Primary display colour						
	Off	Primary display Mono						
E5	On*	Enable VGA/autosense						
E6	On*	Enable password override (disable and erase)						
	Off	Disable password override (allow password)						
E9,10	<b>CPU speed</b>	<b>E9</b>	<b>E10</b>					
	33 MHz	Off	Off					
	25 MHz	On	On					
E12	1-2*	Parallel port IRQ7						
	2-3	Parallel port IRQ5						
E11,13-17	<b>CPU</b>	<b>E11</b>	<b>E13</b>	<b>E14</b>	<b>E15</b>	<b>E16</b>	<b>E17</b>	
	80486SX (PQFP)	Off	Off	1-2	1-2	1-2	1-2	
	80486SX (LIF socket)	On	Off	1-2	1-2	1-2	1-2	
	80486DX/DX2/ODPR	On	On	2-3	1-2	2-3	1-2	
	ODP/80487SX	On	On	1-2	1-2	2-3	1-2	
	Pentium Overdrive	On	On	2-3	2-3	2-3	Off	
5v processors only								

*Advantage! Pro 4/33(s)*

As for Advantage! Pro 4/25s

*Advantage! Pro 4/50d*

As for Advantage! Pro 4/25s

*Advantage! Pro 4/66d*

As for Advantage! Pro 4/25s

### *Advantage! Pro Adventure 4/25s*

As for Advantage! Pro 4/25s

### *Advantage! Pro Adventure 4/33s*

As for Advantage! Pro 4/25s

### *Advantage! Pro Adventure 4/50d*

As for Advantage! Pro 4/25s

### *Bravo 286*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	Out*	Reserved
E2	Out*	Reserved
SW2	Colour Mono	CGA, EGA or VGA installed
SW3	1-2	Normal ops

### *Bravo 286/386sx*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On*	Enable VGA
S2	Off*	Set password override Inhibit password override
S3	Off*	Reserved
S4	Off*	Reserved
S5	On*	Reserved
S6	On*	Reserved
S7	On*	PS/2 video
	Off	AT video
S8	Off*	VGA or fixed frequency monitors
	On	Multi-frequency monitors
S9	Off*	Reserved
S10	Off*	Reserved

### *Bravo 286/386sx*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	Out	Reserved
	In*	Enable memory parity
E2,3		Reserved
S1	On*	Enable VGA
S2	Off*	Set password override Inhibit password override
	On	
S3	Off*	Reserved
S4	Off*	Reserved
S5	On*	Reserved
S6	On*	Reserved
S7	On*	PS/2 video
	Off	AT video
S8	Off*	VGA or fixed frequency monitors
	On	Multi-frequency monitors
S9	Off*	Reserved
S10	Off*	Reserved

*Bravo LC 4/33(s)*

As for Advantage! Pro 4/100t, except use SL enhanced for all 3x 168- or 169-pin 486, except SX. DX2 system boards support only 5v CPUs, DX4 support only 3v. The 94 Cyrix model supports only 3v SL-enhanced CPUs.

*Bravo LC 4/50(s)(d)*

As for Bravo LC 4/33(s).

*Bravo LC 4/66d*

As for Bravo LC 4/33(s).

*Bravo LC 4/100t*

As for Bravo LC 4/33(s).

*Bravo LC 5100*

As for Advantage! Plus 5/100.

*Bravo LC 5133*

As for Advantage! Plus 5/100.

*Bravo LC 5166*

As for Advantage! Plus 5/100.

*Bravo LC P/75*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>						
JP1,19	<b>JP1</b>	<b>JP19</b>	<b>CPU speed</b>					
	1-2	1-2	20 MHz					
	1-2	3-4	25 MHz					
	1-2	5-6	33 MHz*					
JP2	On*	Allow password						
	Off	Override and erase						
JP3-9	<b>CPU</b>	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>
	i486/Cyrix 586	Off	On	On	On	Off	On	Off
	Cyrix 486	On	Off	Off	Off	Off	Off	On
JP11	1-2*	DX CPU						
	2-3	SX CPU						
JP16	1-2*	128K cache						
	2-3	256K cache						
JP17	1-2	Leave on 1-2 (external cache size)						
JP20-23	<b>CPU type</b>	<b>JP20</b>	<b>JP21</b>	<b>JP22</b>	<b>JP23</b>			
	i486/Cyrix 5x86*	Off	Off	Off	Off			
	Cyrix 486	On	Off	On	Off			
JP29	On*	Enable video						
	Off	Disable						
JP30	On*	Primary display colour						
	Off	Primary display Mono						
JP31	On*	Normal boot						
	Off	Force flash update at boot						
V1-4	On	5v CPU						
	Off*	3.45v CPU						



*Bravo LC (LC2) 4/25s*

As for Advantage! Pro 4/25s

*Bravo LC (LC2) 4/33s*

As for Advantage! Pro 4/25s

*Bravo LC (LC2) 4/50d*

As for Advantage! Pro 4/25s

*Bravo LC (LC2) 4/66d*

As for Advantage! Pro 4/25s

*Bravo LC3/33s*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	1-2*	Reserved
E2	Out*	Clear CMOS
	In	Reserved
E3	Out	Reserved
	In*	LPT on IRQ7
SW1-S1	On*	Enable VGA
SW1-S2	Off*	Set password override
	On	Inhibit password override
SW1-S3	Off*	Reserved
SW1-S4	Off*	Reserved

*Bravo LC P/100*

As for MS P/75.

*Bravo LP 4/25s*

As for Advantage! Plus 4/33 (MT)

*Bravo LP 4/33(s)*

As for Advantage! Plus 4/33 (MT)

*Bravo LP 4/50s*

As for Advantage! Plus 4/33 (MT)

*Bravo LP 4/66d*

As for Advantage! Plus 4/33 (MT)

*Bravo MS 4/33s*

As for Advantage! Adventure 8066d.

*Bravo MS 4/50s*

As for Bravo MS 4/33s.

### Bravo MS 4/66d

As for Bravo MS 4/33s.

### Bravo MS 4/100t

As for Bravo MS 4/33s.

### Bravo MS 5100 (Vixen)

Jumper	Position		Function	
J4G1	1-2,4-5*		2 PCI slots on riser	
	2-3,5-6		2 PCI slots on riser	
J4L1A	1-2*		Normal boot	
	2-3		Erase password	
	4-5*		Normal boot	
	5-6		Reset CMOS at boot	
J4L1B	1-2*		Allow access to CMOS	
	2-3		Prevent access	
	4-5*		Factory setting	
J4L1C,D	<b>C</b>	<b>D</b>	<b>CPU</b>	<b>Bus speed</b>
	2-3,5-6	1-2,4-5	75	25
	2-3,4-5	1-2,4-5	90	30
	1-2,5-6	1-2,4-5	100	33
	2-3,4-5	2-3,4-5	120	30
	1-2,5-6	2-3,4-5	133	33
	2-3,4-5	2-3,5-6	150	30
	1-2,5-6	2-3,5-6	166	33
J6C2	1-2*		Factory setting	
J6C2	1-2*		Factory setting	
	4-5		VRE (3.6v)	
	5-6		Standard voltage (3.3v)	

### Bravo MS 5133

As for Bravo MS 5100 (Vixen).

### Bravo MS 5166

As for Bravo MS 5100 (Vixen).

### Bravo MS P/60

As for Advantage!6060p.

### Bravo MS P/75

As for Advantage! 6060p

### Bravo MS P/75 (Eagle)

Jumper	Position	Function
E1	On*	Onboard speaker
	Off	External speaker
E2	On	VR voltage (3.3-3.4v)
	Off	VRE voltage (3-4-3.6v)
E4	On*	Normal boot
	Off	Force flash update at boot
E5	On*	Allow password

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Off	Override password
E7	On*	Enable access to setup
	Off	Disable access to setup
E12		Reserved – leave Off
E13		Reserved – leave Off
E14		Reserved – leave Off
E15	1-2*	Output to speaker
	2-3	Output to line
E16	1-2*	Output to speaker
	2-3	Output to line
E17		Reserved – leave Off
E19		Reserved – leave Off

Int CPU	Ext CPU	E3	E6	E8	E10	E11	E18	E20
60	40	2-2	On	On	Off	On	Off	Off
75	50	2-3	On	On	Off	Off	Off	On
80	40	1-2	Off	On	Off	On	Off	Off
90	60	2-3	On	On	On	Off	Off	On
100	50	1-2	Off	On	Off	Off	Off	On
100	66	2-3	On	On	On	On	Off	On
120	60	1-2	Off	On	On	Off	Off	On
133	66	1-2	Off	On	On	On	Off	On
150	60	1-2	On	Off	On	Off	On	On
166	66	1-2	On	Off	On	On	On	On

### *Bravo MS P/75 (Morrison)*

As for Advantage! 612.

### *Bravo MS P/90*

As for Advantage! 6060p.

### *Bravo MS P/100*

As for Advantage! 6060p.

### *Bravo MS P/100 (Eagle)*

As for Bravo MS P/75 (Eagle).

### *Bravo MS P/100 (Morrison)*

As for Advantage! 612.

### *Bravo MS P/120*

As for Bravo MS P/75 (Eagle).

### *Bravo MS P/133 (Eagle)*

As for Bravo MS P/75 (Eagle).

*Bravo MS P/133 (Morrison)*

As for Advantage! 612.

*Bravo MS P/166 (Morrison)*

As for Advantage! 612.

Bravo MS-T 4/66

As for Bravo MS 4/33s

*Bravo MS-T P/75*

As for Advantage! 6060p

*Bravo MS-T P/90*

As for Advantage! 6060p

*Bravo MS-T P/100*

As for Bravo MS P/75 (Eagle)

*Bravo MS-T P/133 (Eagle)*

As for Bravo MS-T P/75 (Eagle)

*Bravo MS-T P/133 (Morrison)*

As for Advantage! 612

*Bravo MS-T 5100 (Vixen)*

As for Bravo MS 5100 (Vixen)

*Bravo MS-T 5133 (Vixen)*

As for Bravo MS 5100 (Vixen)

*Bravo MS-T 6150*

Denali

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
J29	On				CPU 3.1v
	Off				Autodetect
J25A-D	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>CPU speed</b>
	Up	Up	Up	Up	133 MHz
	Down	Down	Down	Up	150 MHz
	Up	Up	Down	Up	166 MHz
	Down	Down	Up	Down	180 MHz
	Up	Up	Up	Down	200 MHz
J25E	Up*				Allow password
	Down				Override password
J25F	Up*				Normal boot
	Down				Erase CMOS at boot
J25G	Up*				Enable access to setup
	Down				Disable

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J25H	Up*	BIOS write-protected
	Down	Allow BIOS flash update
J25I	Up	60 ns SIMMs
	Down	70 ns SIMMs

### *Bravo MS-T P/166*

As for Advantage! 612

### *Bravo MS-T 5166 (Vixen)*

As for Bravo MS 5100 (Vixen)

### *Bravo MS-L 4/66d*

As for Bravo MS 4/33s

### *Bravo MS-L P/75*

As for Advantage! 6060p

### *Bravo MS-L P/90*

As for Advantage! 6060p

### *Bravo MT 4/33(s)*

As for Advantage! Plus 4/33 (MT)

### *Bravo MT 4/50(s)*

As for Advantage! Plus 4/33 (MT)

### *Bravo MT 4/66d*

As for Advantage! Plus 4/33 (MT)

### *Bravo MT P/60*

As for Advantage! Plus EXP P/60

### *Cupid ISA*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	PWD*	Enable password
	1-2	Override password
E2	Out*	Reserved
E3	Out*	Reserved

### *Cupid Clem ISA*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Set password override
	On	Inhibit password override
S2	Off*	Reserved
S3	Off*	Reserved

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S4	Off*	Analogue or VGA display
	On	Multifrequency display
S5	On*	Enable VGA

### *Cupid EISA*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	In*	Reserved
E2	In*	Reserved
E3	Out*	Reserved
E4	1-2	Disable password override
	2-3	Enable password override
E5	Out*	Enable VGA
E6	Out*	Reserved
E7	2-3*	Reserved

### *Cupid Tower ISA*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Reserved
S2	Off*	Set password override
	On	Inhibit password override
S3	Off*	Reserved
S4	Off*	Boot without keyboard

### *Cupid Tower EISA*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	Out*	Reserved
E2	1-2	Inhibit password
	2-3*	Set password
E3	Out*	Reserved
E4	In*	Reserved
E5	In*	Reserved
E6	Out*	Reserved

### *Manhattan G560*

As for Advantage! 6060p.

### *Manhattan G590*

As for Advantage! 6060p.

### *Manhattan P5090*

As for Manhattan S6200.

### *Manhattan P5100*

As for Manhattan S6200.

### *Manhattan P5133*

As for Manhattan S6200.

### Manhattan S6200

SW2 on mainboard and SW1 on processor board are for reporting revision information to diagnostics.

Switch	Position	Function
S1	On	Force BIOS update at boot
	Off*	Normal operation
S2	On	Override password
	Off*	Allow password
S3	On	Mono display
	Off*	Colour display
S4	On	Clear EISA CMOS at boot
	Off*	Normal boot
S5	On	Deny access to setup
	Off*	Allow access to setup
E1		Clear CMOS

### Manhattan V5090

As for Manhattan S6200.

### Manhattan V5100

As for Manhattan S6200.

### Power Premium

Switch	Position	Function
S1	Off*	Clear CMOS memory
	On	Clear CMOS
S2	Off	Allow password
	On*	Inhibit password
S3	Off*	Flash BIOS update
	On	Force BIOS update
S4	Off	Disable video
	On*	Enable video
E1	In*	Reserved
E2	1-2*	Reserved
E3	In*	Reserved
E4	Out*	Reserved
E5	Out*	Reserved

### Premium II ISA

Switch	Position	Function
S1	On*	Enable VGA
S2	Off*	Set password override
	On	Inhibit password override
S3	Off*	Reserved
S4	Off*	Reserved
S5	On*	Reserved
S6	On*	Reserved
S7	On*	PS/2 video
	Off	AT video
S8	Off*	VGA or fixed frequency monitors
	On	Multi-frequency monitors

*Premium III 4/25s (LC2)*

As for Advantage! Pro 4/25s.

*Premium III 4/33(s) (LC2)*

As for Advantage! Pro 4/25s.

*Premium III 4/50d (King)*

As for Advantage! Pro 4/100t.

*Premium III 4/50d (LC2)*

As for Advantage! Pro 4/25s.

*Premium III 4/66d (King)*

As for Advantage! Pro 4/100t.

*Premium III 4/66d (LC2)*

As for Advantage! Pro 4/25s.

*Premium III+ P/75*

As for Advantage! 6060p.

*Premium III+ P/100*

As for Bravo MS P/75 (Eagle).

*Premium III+ P/133*

As for Bravo MS P/75 (Eagle).

*Premium 286*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E3	In	ROM BIOS 0 wait state
	Out*	Reserved
E4	In	Enable A15 for 27256 devices
E5	In	Reserved
	Out*	27256 address F000-FFFF
E6	In	Reserved
	Out*	27128 address F800-FFFF
E7	In	Reserved
	Out*	Latched PROM BIOS
E8	In	Latched PROM BIOS for optional ROMs
	Out*	Reserved
E9	In	0 wait state for optional ROMs
	Out*	Reserved
E10	In	Enable A15 for 27256 devices
	Out*	Disable A15 for 27256 devices
E11	In	Reserved
	Out*	E000-EFFFh
E12	In	Reserved
	Out*	F000-F7FFh



<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E13	In	Reserved
	Out*	E800-EFFFh
E14	In	Reserved
	Out*	Latched PROM for optional devices
E18	In	Reserved
	Out*	Latched PROM for optional ROMs
E20	In*	AT Bus 2 wait states at 10 MHz
	Out	AT Bus 1 wait state at 10 MHz
E21		Reserved
E24	In	COM2 at 2F8h
	Out*	Reserved
E25	In*	COM1 at 3F8h
	Out	Reserved
E31	In*	IRQ4
	Out	Reserved
E32	In	IRQ3
	Out*	Reserved
E27	Out	Reserved
	In*	LPT1 at 378h
E28	Out*	Reserved
	In	LPT2 at 278h
E29	Out	Reserved
	In*	IRQ7
E30	Out*	Reserved
	In	IRQ5

### *Premium 386/16*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1,15,16	<b>Maths copro</b>	<b>E1</b> <b>E15</b> <b>E16</b>
	5 MHz	In          Out          In
	8 MHz	Out        In          Out
E2	In	ROM BIOS 0 wait state
	Out*	Reserved
E3	In	Enable A15 for 27256 devices
	Out*	Disable A15 for 27256 devices
E4	In	Reserved
	Out*	27256 address F000-FFFF
E5	In	Reserved
	Out*	27128 address F800-FFFF
E6	Out	Reserved
	In*	Latched PROM BIOS
E7	In	Latched PROM BIOS for optional ROMs
	Out*	Reserved
E8	In	0 wait state for optional ROMs
	Out*	Reserved
E9	In	Enable A15 for 27256 devices
	Out*	Disable A15 for 27256 devices
E10-13	In	Reserved
	Out*	Address select
E14	In	Reserved
	Out*	Latched PROM for optional ROMs
E18,32	Out*	Reserved
E20,2,31	In*	Reserved
E17	Out	Reserved
	In*	AT Bus 2 wait states at 10 MHz
E33	In	Disable floppy

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Out*	Enable floppy
E40	In*	ALE sampled earlier than standard
	Out	Reserved
E22	In	COM2 at 2F8h
	Out*	Reserved
E23	In*	COM1 at 3F8h
	Out	Reserved
E28	Out	Reserved
	In*	IRQ4
E29	Out*	Reserved
	In	IRQ3
E24	Out	Reserved
	In*	LPT1 at 378h
E25	Out*	Reserved
	In	LPT2 at 278h
E26	Out	Reserved
	In*	IRQ7
E27	Out*	Reserved
	In	IRQ5

### Premium 386/C

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	In*	Reserved
E2	In*	Reserved
E3	In*	Reserved
E4	Out*	Reserved
E5	In*	Reserved
E6	Out*	Reserved

### Premium SE

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	Out*	Reserved
E2	1-2	Inhibit password
	2-3*	Set password
E3	Out*	Reserved
E4	In*	Reserved
E5	In*	Reserved
E6	In*	Reserved

### Premium Exec

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Set password override
	On	Inhibit password override
JP1	Out*	Reserved

### Premium Workstation

<i>Jumper</i>	<i>Position</i>	<i>Function</i>					
JP1-6	<b>SIMM type</b>	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>
	256K	1-2*	1-2*	1-2*	1-2*	1-2*	1-2*
	1 Mb	2-3	2-3	2-3	2-3	2-3	2-3
JP7	1-2	27128K EPROM					
	2-3	27256K EPROM					
JP8	Out*	Reserved					

### Premmia 4/33(s)

Switch	Position	Function
S1	On*	Enable VGA
	Off	Disable
S2		Reserved
S3	On	Erase EISA CMOS at boot
	Off*	Normal boot
S4	On	Force flash BIOS update at boot
	Off*	Normal boot
S5	On	Override password
	Off*	Allow password
S6		Reserved – leave Off
S7		Reserved – leave Off
S8		Reserved – leave Off
S9	On*	Super I/O register address 398h
	Off	Super I/O register address 26Eh
S10	On*	Primary display colour
	Off	Mono

Jumper	Position				Function
E1,4,6,7	<b>E1</b>	<b>E4</b>	<b>E6</b>	<b>E7</b>	<b>CPU</b>
	2-3	1-2	1-2	1-2	486SX (U12)
	1-2	Off	2-3	2-3	486SX (U13)
	2-3	1-2	1-2	1-2	487SX, ODP (U13)
	1-2	2-3	1-2	1-2	DX, DX2, ODPR (U13)
	1-2	1-2	1-2	1-2	P60 (if in J17, remove CPU in U13)
E2					Reserved – leave Off
E3	On*				Enable RAM parity checking
	Off				Disable
E5	2-3				Flash voltage – leave on 2-3

### Premmia 4/50d

As for Premmia 4/33(s).

### Premmia 4/66d

As for Premmia 4/33(s).

### Premmia GX P/90 (IDE)

As for Premmia GX P/90 (SCSI) except:

Jumper	Position		Function
E1,2	<b>E1</b>	<b>E2</b>	<b>CPU speed</b>
	Off	On	75 (50)
	Off	On	90 (60)
	Off	Off	100 (50)
	On	On	100 (66)

### Premmia GX P/90 (SCSI)

Switch	Position	Function
1	On	Force flash BIOS at boot
	Off*	Normal boot
2	On	Override password

Switch	Position	Function
	Off*	Allow password features
3	On	Mono display
	Off*	Colour
4	On	Clear EISA CMOS at boot
	Off*	Normal boot
5	On	Deny access to setup
	Off*	Allow access
6	Off	Reserved
7	On	Enable parity
	Off*	Disable
8	On	Dual processor (also install E5)
	Off*	Single processor (also install E4)

Jumper	Position	Function
E1,2	E1	E2
	Off	On
		CPU speed
		90 (60)
E3	On	Clear ISA CMOS at boot
	Off	Normal boot
E4	On	Single processor
	Off	Dual processor
E5	On	Dual processor
	Off	Single processor

Only install E4 or E5 see also S8.

### Premmia GX P/100

As for Premmia GX P/90 (IDE).

### Premmia GX P/133

As for Premmia GX P/90 (IDE) except:

Jumper	Position	Function
E1,2	<b>E1</b>	<b>E2</b>
	On	On
	Off	Off
		<b>CPU speed</b>
		100 (66)
		133 (66)

### Premmia LX P/60

As for Advantage! EXP P/60.

### Premmia MTE 4/33

As for Premmia 4/33(s), except:

Switch	Position	Function
S7	On	Deny access to CMOS setup
	Off*	Allow access
E10	2-3	Reserved
E800	Off	Reserved

Remove CPU from ZIF socket at U84 before installing Pentium upgrade board.

### Premmia MTE 4/66d

As for Premmia MTE 4/33.

### *Premmia MTE P/60*

As for Premmia MTE 4/33.

### *Premmia MX 4/66d*

As for Advantage! Adventure 8060d except S5 is reserved.

### *Premmia MX 4/100t*

As for Advantage! Adventure 8060d except S5 is reserved.

### *Premmia MX P/60*

As for Advantage! 6060p.

### *Premmia MX P/75*

As for Advantage! 6060p.

## ASUS

ASUSTeK Computer Inc www.asus.com

All ID numbers (just above the memory count) contain **401A0-XXXX**. **A0** indicates the manufacturer, while **XXXX** is the BIOS revision level.

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
5C	P/I-XP6NP5		

## A7V

Item	Description	Notes
Form Factor	ATX	
CPU		Socket A
Chipset	Via KT133	
Bus	5 PCI	
Memory (Mb)		3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

## CUSL2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	933/566	133 FSB
Chipset	Intel 815E	
BIOS	Award	
Bus	6 PCI 2 CNR	
Memory (Mb)	512 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 5 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video	Intel 815 GMCH	AGP Pro
Performance	Good value	

**CUV4X**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	800/533	133 FSB
Chipset	Via Apollo 133A	
BIOS	Award	
Bus	5 PCI 1 ISA 1 CNR	
Memory (Mb)	1.5 Gb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 4 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Audio	Crystal 4299	AGP Pro
Performance	Good value	

**K7M**

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Chipset	AMD 751/VIA VT82C686A	
BIOS	AMI	
Bus	5 PCI/1 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

**MB-586A-PCI60C**

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	60/66	
Chipset	Mercury	
BIOS	Award Flash	
Bus	3 PCI/4 ISA	
Memory (Mb)	192	6 x 32 Mb 72-pin
Cache (K)	512 W/T	256 standard

**MEW**

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Chipset	Intel 810	
Bus	5 PCI/2 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	

**P2B**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	500	
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 shared
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP
Performance		Up to 8x, but slower than Soyo SY-6BA+
Problems		Awkward jumper positions. Few features.

*P2B-S*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	500	
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 shared
Memory (Mb)	1 Gb	4 DIMM sockets
Cache (K)		
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	Adaptec AIC-7890 LVD SCSI
Video		AGP
Performance		Fast – better than Gigabyte GA-6BXF
Problems		
Comments		AOpen AX6B slightly slower but much cheaper

*P2L97-DS*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II x 2	Slot 1
Speeds (MHz)	550 MHz	366 MHz for stability
Chipset		
ISA	2	
PCI	4	
Memory (Mb)	512 Mb EDO/SDRAM	3.3v only
I/O	EIDE, floppy, UltraWide SCSI (AIC 7880P)	50 and 68-pin connectors.
Video		AGP
Performance		100 MHz, but slow.

*P3B-F*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)		100 FSB
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	6 PCI/1 ISA	1 shared
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	UDMA/33
Video		AGP

*P3C-E*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)		133 FSB
Chipset	820	
BIOS	Award 4.51PG	
Bus	5 PCI/1 ISA/1 AMR	1 shared
Memory (Mb)		2 RIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	UDMA/33
Audio	Yamaha 744	
Video		AGP Pro

*P3W*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)		100 FSB
Chipset	Intel 810	
BIOS	Award 4.51PG	
Bus	6 PCI 1 AMR	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy, joystick, audio	UDMA/33

*P5A*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium – K62	Socket 7
Speeds (MHz)	500	
Chipset	ALi Aladdin V	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	1 shared
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)	512K	
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP
Performance		Slow – TMC T15VG+ much faster

*P/E-P6RP7D*

Item	Description	Notes
Form Factor	Full AT	
CPU	2 Pentium Pro	
Speeds (MHz)	200	
Chipset	Orion	
BIOS	AMI Flash	NCR/Symbios SCSI supported
Bus	6 PCI/1 EISA	EISA shared with Asus mediabus slot
Memory (Mb)	1 Gb	Non-EDO. 8 sockets
I/O	2S, 1P, IR	

*P/E-P6P4S*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	133/150/166	
Chipset	Orion	
BIOS	Award Flash	
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	512	Non-EDO. 4 sockets
I/O	2S, 1P, IR, 2 EIDE	

*P/I-P6NP5*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium Pro	
Speeds (MHz)	200	
Chipset	Natoma (440 FX)	
BIOS	Award Flash	NCR/Symbios SCSI supported
Bus	5 PCI/3 ISA	1 ISA shared with Asus mediabus slot
Memory (Mb)	256	Non-parity, parity, ECC FPM, EDO, BEDO. 4 sockets
I/O	2S, 1P	



### P/I-XP6NP5

ATX version of P/I-P6NP5.

### P/I-P6RP4

Item	Description	Notes
CPU	Pentium Pro	
Speeds (MHz)	200	
Chipset	Mars (450 KX)	
BIOS	AMI Flash	NCR/Symbios SCSI supported
Bus	4 PCI/3 ISA	1 ISA shared with Asus mediabus slot
Memory (Mb)	512	Non-parity, parity, ECC, either FPM or EDO
Cache (K)		
I/O	2S, 1P, IR	

### PVI/486AP4

Item	Description	Notes
Form Factor		
CPU	486	DX4, Pentium Overdrive (P24T)
Speeds (MHz)		
Chipset	Aries	Rev 2
BIOS	Green Award	NCR SCSI supported
Bus	3 PCI/3 ISA	
Memory (Mb)	128	4 x 32 Mb 72-pin SIMMs
Cache (K)	256 W/B	
Problems		Rev 1.6 requires reset button to reboot if you have a SCSI controller installed. May be more stable if you disable the VL slot. Set cache timing to Normal (that is, not Fast) for stability.

### PVI-486SP3

5 slightly different versions, depending on the SiS chipset:

- A4** SIS 496 MU, SIS 497 MW. Supports up to PIO mode 2.
- B2** SIS 496 NU, SIS 497 NS. Supports PIO mode 3 and above, but apparently not Mode 3 very well.
- B3** SIS 496 NV, SIS 497 NS. Supports PIO mode 3 and above.
- B4** SIS 496 NV, SIS 497 NU. Supports PIO mode 3 and above.
- B5** SIS 496 OR, SIS 497 OT. Supports PIO mode 3 and above.

Item	Description	Notes
CPU	486	Does not work with a DX4-50/100
Speeds (MHz)		
Chipset	SiS	See below
BIOS	Award Flash	NCR SCSI supported after v1.2
Bus	3 PCI/3 ISA/VL	1 shared PCI/VL
Memory (Mb)	128	
I/O	2S, 1P, PS/2, FI, 2 VL IDE	
Problems		Adaptec 2940UW may not work, but 2940W will. Don't try to use v1.21 of the Adaptec BIOS. You might also need to turn IDE prefetch off for a 3c590 PCI Ethernet adapter.

### PCI/I-486 SP3G (D)

Item	Description	Notes
CPU	486	DX4, Intel/Cyrix, P24T/D (Pentium Overdrive). Set up AMD DX4 (3x33) as non-SL enhanced DX4, with J36 to 1&2 rather than 2&3. For AMD DX4 to run in 4x mode, pin B13 must be tied high - tying to ground will make chip run as DX2-66.
Chipset	Green Saturn 4	
BIOS	Award Flash	4.50g

Item	Description	Notes
Bus	3 PCI/4 ISA	1 each shared
Memory (Mb)	128	4 sockets
Cache (K)	512 W/T	256 standard
I/O	2S, 1P, IDE, Floppy, PS/2	On-board NCR 53c810 SCSI with 50-pin socket. Use EIDE in slot for more than 2 drives.
Problems		On-board SCSI controller may have problems with OS/2 2.1 and a Quantum Prodrive 540S, as synchronous communication must be disabled for the system to boot. You may also need to turn off tagged command queueing to avoid data corruption with a Micropolis 4110

### PCI/I-P54NP4

Item	Description	Notes
CPU	2 Pentium	P54C/CT. Socket 5
Speeds (MHz)	90/100	
Chipset	Intel 82430N (Neptune)	
BIOS	Flash	NCR SCSI supported
Bus	4 PCI/4 ISA	
Memory (Mb)	512	4 72-pin non-parity SIMMs
Cache (K)	512 W/B	256 standard.
I/O	2S, 1P, IDE, Floppy	

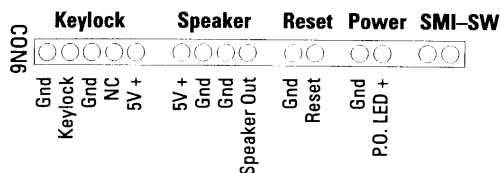
Jumper	Position	Function
JP1	<b>JP1</b> <b>JP2</b>	<b>PCI SC200 SCSI Card INT Assignment</b>
	1-2	INT A
	2-3	INT B
	1-2	INT C
JP5	Open	Enable PCI SC200 SCSI Card Termination
	Short	Disable
JP 11	1-2*	Enable PS/2 mouse port
	2-3	Disable
JP12,13	<b>JP12</b> <b>JP13</b>	<b>DMA Channel for ECP</b>
	1-2        1-2	Ch 1
	2-3        2-3	Ch 2
JP16	1-2*	Enable I/O
	2-3	Disable
JP17	1-2*	5v BIOS flash voltage
	2-3	12v BIOS flash voltage
JP18	Open	Host bus frequency 2/3 internal clock
	Short	Half internal clock
JP20	Open*	L1 cache writeback
	Short	L1 cache writethrough
JP21	1-2*	CPU-PCI Bus Clock Ratio 2:1
	2-3	CPU-PCI Bus Clock Ratio 3:2
JP22,23	<b>JP22</b> <b>JP23</b>	<b>L2 Cache Size</b>
	1-2        2-3	256K
	2-3        2-3	512K
JP24-26	<b>JP24</b> <b>JP25</b> <b>JP26</b>	<b>Clock Frequency (AV9154A-27 clock generator)</b>
	1-2        2-3        1-2	66 MHz
	2-3        1-2        2-3	60 MHz
	1-2        2-3        2-3	50 MHz
JP24-26	<b>JP24</b> <b>JP25</b> <b>JP26</b>	<b>Clock Frequency (MX8315 clock generator)</b>
	2-3        1-2        2-3	66 MHz
	1-2        2-3        1-2	60 MHz
	2-3        1-2        1-2	50 MHz

### IRQ Settings for Edge-Triggered Cards

Set IRQ in Setup as well. Jumpers are at the back somewhere near the centre, just behind the PCI slots. Defaults are all at 2-3.

IRQ	PCI 1	PCI 2	PCI 3	PCI 4
5	JP2 1-2	JP2 3-4	JP9 1-2	JP9 3-4
9	JP1 1-2	JP1 3-4	JP10 1-2	JP10 3-4
11	JP3 1-2	JP3 3-4	JP8 1-2	JP8 3-4
14	JP4 1-2	JP4 3-4	JP7 1-2	JP7 3-4
15	JP5 1-2	JP5 3-4	JP6 1-2	JP6 3-4

### Case Connectors



### PCI/I-P54NP4D

As for PCI/I-P54NP4, except Dual Pentium. P54C/CT in No 1 socket, P54CM in the other, and:

Jumper	Position	Function
JP19	1-2*	Dual Pentium
	2-3	Single pentium
JP31	Open	Disable address pipeline
	Short	Enable

### P/E-P54NP4

Item	Description	Notes
CPU	2 Pentium	
Chipset	Neptune	
BIOS	Award Flash	
Bus	4 PCI/4 EISA	1 each shared
Memory (Mb)	512	FPM, 8 banks
Cache (K)	512	Asynchronous
I/O		D version has built-in I/O

Jumper	Position	Function	
JP1	1-2	Power Card 1.2 3.5v (1.1 supported by default)	
	2-3	Power Card 1.2 3.4v	
JP11	Open	1.5x clock	
	Short	2x clock	
JP14	1-2	Dual CPU	
	2-3	Single CPU	
JP20	Open*	L1 cache writeback	
	Short	L1 cache writethrough	
JP22,23	<b>JP22</b>	<b>JP23</b>	<b>L2 cache size</b>
	2-3	1-2	256K
	2-3	2-3	512K

### P/I-P54SP4

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75/90/100	
Chipset	SiS	older versions used the 5501/2/3; newer ones the 5511/12/13

Item	Description	Notes
BIOS	Award Flash	NCR SCSI supported
Memory (Mb)		4 72-pin SIMMs
Cache (K)	1 Mb	
I/O	2S, 1P, 2 EIDE, 1 Floppy	CMD 640B
Problems		Possibly disable green BIOS to boot with PCI SCSI

*P/E-P55T2P4D*

Item	Description	Notes
CPU	2 Pentium	
Speeds (MHz)	200	
Chipset	430 HX (T II)	
BIOS	Award Flash	NCR/Symbios SCSI supported
Bus	4 PCI/4 EISA/1 ISA	
Memory (Mb)	512	8 slots for non-parity, parity, or ECC FPM?EDO. 60 ns for 66 MHz CPUs and above.
Cache (K)	512	Pipeline Burst
I/O	2S, 1P	

*P/E-P5MP3*

PCI/EISA. Aside from EISA slots, identical to MB-586A-PCI60C. Older versions had bugs in serial I/O.

*P/I-P55SP3AV*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	200	
Chipset	Sis	5511/12/13
BIOS	Award Flash	NCR/Symbios SCSI supported
Bus	3 PCI/4 ISA	1 each shared
Memory (Mb)	512	EDO/FPM
Cache (K)	512	Pipeline Burst. 256 standard
I/O	2S, 1P, Game	Wavetable Upgrade
Video	SIS 6205	Integrated, uses up to 2 Mb System DRAM.
Audio	ESS 1788	

*P/I-P55T2P4*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-200	
Chipset	430 HX	Triton II
BIOS	Award	NCR/Symbios SCSI supported.
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	128	non-parity, parity or ECC, FPM or EDO
Cache (K)	512	256 standard. CELP socket for upgrade.

*P/I-XP55T2P4*

As for P55T2P4, but ATX.

*P/I-P54TP4(D)*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-200 MHz	
Chipset	Triton	
BIOS	Award	NCR SCSI
Bus	4 PCI/4 ISA	1 each shared
Memory (Mb)	8-128 FPM/EDO	

Item	Description	Notes
Cache (K)	256-512 Kb sync/async	
I/O	IDE 0/1, Floppy, 2 serial, 1 parallel SMC super I/O controller Mouse port	Mode 4 data transfers and DMA mode 2. Needs triton.exe
Performance		A board equipped with 256k Burst-SRAM and EDO-RAM achieved transfer rates of 65 MB/sec to 2 <sup>nd</sup> level Cache (K), 39 MByte/s on a direct Memory (Mb) access, 53 MByte/s on a write operation (STOSD), and 54 MByte/s on a Memory (Mb) to PCI transfer.
Problems		You may need to remove old asynchronous Cache (K) before the boards recognize new pipeline burst Cache (K). Doesn't like RAM chips labelled Ti -60 TMS417400DJ VBP 440230. Certain revisions do a PCI bus reset after the SCSI BIOS scans its bus, which causes problems for QLogic SCSI controllers (ISP1020 firmware level should be 1.27 or greater). 8-bit ISA networking cards will not work properly. These revisions of the floppy controller (SMC 37C6651R multi-I/O chip) are defective:  B9519/5-AIC, 6J75692-1 B9519/5-AIC, 6J75693-8 B9519/5-AIC, 6J75690-5 B9519/5-AIC, 6J75697-0 B9521/5-AIC, 6J75735-7 B9521/5-AIC, 6J75730-0 B9521/5-AIC, 6J75732-5

#### *P/I-P55TP4(D)*

As for P/I-P54TP4(D)

#### *P/I-P55TP4XE(D)*

As for P/I-P54TP4(D)

#### *P/I-P55TP4N\*\**

As for P/I-P54TP4(D)

#### *P/I-P55TVP4*

Item	Description	Notes
CPU	Intel/AMD Pentium	60 ns RAM required for CPUs with an external clock of 66 MHz
Speeds (MHz)		
Chipset	Triton III (430VX)	
BIOS	Award 1 Mbit flash	Supports NCR/Symbios SCSI
Bus	3 PCI/4 ISA	1 each shared
Memory (Mb)	Up to 128 FPM/EDO parity/non-parity	
Cache (K)	256-512 Kb pipeline burst	
I/O	IDE 0/1, Floppy, 2 serial, 1 parallel	Includes IR TX/RX header

#### *PVI-486AP4*

Rev 1.3, 1.6

Jumper	Position	Function	
JP17	4-5	2x CPU internal clock	
	3-4	2.5x CPU internal clock	
	Open	3x CPU internal clock	
JP17(?)	Open	CPU L1 cache writethrough	
	1-2	CPU L1 cache writeback	
JP18,19	<b>JP18</b>	<b>JP19</b>	<b>CPU type</b>
Rev 1.6	2-3,4-5	1-2,3-4	SL Enh 486DX & ODP, DX2 & ODP, DX4 & ODP

Jumper	Position	Function	
	1-2,4-5	1-2,3-4	DX & ODP, DX2 & ODP,SX, Cx486DX,DX2(-V)
	2-3,4-5	1-2,4-5	SL Enhanced 486SX & SX2, Cx486s
	1-2,4-5	1-2,4-5	486SX,SX2
	2-3,5-6	1-2,3-4	Pentium OverDrive, P24T,P24CT,P24D
	1-2,4-5	3-4	Am486DX2-66 (JP17-2 & 18-3 for 2x clock)
	1-2,4-5	3-4	Am486DX2-80 (3x), Am486DX4-100(3x)
	1-2,4-5	3-4	Am486DXL, Am486DX2L
	1-2,4-5	4-5	Am486SXL
Cx5x86(M1sx)-133 MHz, Am5x86-P75(x5-133 MHz), AMD486DX4-SV8B(120 MHz), UMC-U5S not supported.			
JP18,19	<b>JP18</b>	<b>JP19</b>	<b>CPU type</b>
Rev 1.3	2-3,4-5	1-2	SL Enh 486DX & ODP, DX2 & ODP, DX4 & ODP
	1-2,4-5	1-2	DX & ODP, DX2 & ODP,SX, Cx486DX,DX2(-V)
	2-3,4-5	2-3	SL Enhanced 486SX & SX2, Cx486s
	1-2,4-5	2-3	486SX,SX2
	2-3,5-6	1-2	Pentium OverDrive, P24T,P24CT,P24D
Am486DX2-66(2x clock), Am486SXL, Am486SX2L			
Am486DX2-80(3x clock), Am486DX4-100(3x clock), Am486DXL, Am486DX2L, UMC-U5S, Cx5x86(M1sc)-133MHz, Am5x86-P75(x5-133MHz), AMD486DX4-SV8B(120MHz not supported)			

SP97(-V)

Jumper	Position	Function			
RTC RAM	1-2*	Normal			
RTCLR	2-3	Clear CMOS			
FS0-3	<b>FS0</b>	<b>FS1</b>	<b>FS2</b>	<b>FS3</b>	<b>CPU host bus speed</b>
	1-2	2-3	1-2	2-3	75 MHz
	2-3	1-2	2-3	1-2	66 MHz
	1-2	2-3	2-3	1-2	60 MHz
	2-3	2-3	2-3	1-2	50 MHz
BF0,1,2	<b>BF0</b>	<b>BF1</b>	<b>BF2</b>	<b>CPU-Bus frequency A, B, C, D, E, F</b>	
	2-3	2-3	2-3	-, -, -, -, 4, 1.5	
	2-3	1-2	2-3	-, -, -, -, 4.5, 1.5	
	1-2	2-3	1-2	3, 3, -, -, 3, -	
	2-3	2-3	1-2	2.5x, 2.5, 2.5, 1,2, 2.5, 2	
	2-3	1-2	1-2	2x, 2, 2, 2, 2	
	1-2	1-2	1-2	1.5x, 3.5, 3, 3, 3.5, -	
P54C=A, P55C=B, 6x86PR=C, 6x86L-PR*=D, K6=E, 6x86L-P200+=F					
*Only version of M1 supported is 2.7 or later. Serial number on bottom of chip should be G8DC6620A or higher.					
VID0-2	<b>VID0</b>	<b>VID2</b>	<b>VID3</b>	<b>CPU Voltage</b>	
	1-2	2-3	2-3	3.5v (VRE)	
	2-3	2-3	2-3	3.4v (STD)	
	2-3	2-3	1-2	3.2v (Dual)	
	1-2	2-3	2-3	2.9v (Dual)	
	2-3	2-3	2-3	2.8v (Dual)	
	1-2	2-3	2-3	2.1v (Dual)	
VGA_SEL1	Out*				Enable VGA
	In				Disable VGA
VGA_SEL	1-2				Disable VGA
	2-3*				Enable VGA
VGA_INT	1-2				VGA Interrupt by chipset (video capture cards)
	2-3*				VGA Interrupt disabled

## VL/I-486SVG0(X4)

## Rev 1.1,1.2

Jumper	Position			Function
RN	1			30-pin memory sockets used
	2			72-pin SIMMs only
JP1	1-2*			Internal lithium battery
	2-3			External lithium battery
	<b>JP5</b>	<b>JP6</b>	<b>Memory</b>	
	1-2	1-2*	Single-sided module in SIMM5	
	2-3	2-3	Double-sided module in SIMM5	
JP7,8	<b>JP7</b>	<b>JP8</b>	<b>CPU Type (Hardware Trap)</b>	
	1-2	2-3	Intel 486SX, DX(2), SL, DX4	
	2-3	1-2	Cyrix S(2), DX(2), DX2-V, AMD 486D(S),XL/L2	
	1-2	1-2	P24D, P24T, P24CT, AMD 486D(S) X+	
JP9	1-2			Cyrix CPU
	2-3			Intel CPU
JP10	1-2*			Enable PS/2 mouse (IRQ 12 not available) (2-3 disable)
JP14,15,27	<b>JP14</b>	<b>JP15</b>	<b>JP27</b>	<b>Cache Size</b>
	Open	2-3	1-2	128K (32K8x4)
	Open	1-2	1-2	256K (32K8x8)
	1-2	2-3	1-2	256K (64K8x4)
	4-5	1-2	2-3	512K (64K8x8)
	1-2	2-3	2-3	512K (128K8x4)
	2-3	1-2	2-3	1 Mb (128K8x8)
JP23-25	<b>JP23</b>	<b>JP24</b>	<b>JP25</b>	<b>CPU Clock Speed</b>
	1-2	1-2	1-2	20 MHz
	2-3	1-2	1-2	25 MHz
	2-3	2-3	2-3	33 MHz
	2-3	2-3	1-2	40 MHz
	1-2	1-2	2-3	50 MHz
JP26	1-2*			VESA clock delay 2-3 No delay
JP28	1-2			VL bus 0 wait state
	2-3			VL bus 1 wait state
JP29	1-2			CPU external speed <=33 MHz
	2-3			CPU external speed >33 MHz

CPU	JP18	JP19	JP20	JP21	JP22
486SX				2-3	2-3
DX(2),487SX,ODP				1-2	2-3
SL486SX	3-4,5-6		4-5	2-3	2-3
SL486DX(2), SLOD (169 pin)	3-4,5-6		4-5	1-2	2-3
SLOD (237 pin)	5-6		4-5	1-2	2-3
P24T	5-6		4-5	1-2	1-2
P24CT56			4-5	1-2	1-2,4-5
DX4 3x clock	3-4,5-6		4-5	1-2	2-3,4-5
DX4 2.5x clock	3-4,5-6	4-5	4-5	1-2	2-3,4-5
DX4 2x clock	3-4,5-6	5-6	4-5	1-2	2-3,4-5
Cyrix CX486S	2-3,4-5	1-2	1-2,3,4	2-3	2-3
Cyrix DX/DX2	2-3,4-5	1-2	1-2,3,4	1-2	2-3

## Rev 1.5 and later

Jumper	Position	Function
RN	1	30-pin memory sockets used
	2	72-pin SIMMs only
JP1	1-2*	Internal battery
	2-3	
JP2-4		SMI out connector

Jumper	Position	Function	
JP5,6	<b>JP5</b>	<b>JP6</b>	
	1-2	1-2	
	2-3	2-3	
JP7,8	<b>JP7</b>	<b>JP8</b>	
	1-2	2-3	
	2-3	1-2	
JP9	1-2	1-2	
	2-3	2-3	
JP10	1-2*	2-3	
	2-3	2-3	
JP11			
JP12	1-2*	2-3	
	2-3	2-3	
JP13	1-2	2-3*	
	2-3*	2-3*	
JP14,15,29	<b>JP14</b>	<b>JP15</b>	<b>JP29</b>
	Open	2-3	1-2
	Open	1-2	1-2
	1-2	2-3	1-2
	4-5	1-2	2-3
	1-2	2-3	2-3
JP23	2-3	2-3	
	3-4	2-3	
JP25-27	<b>JP25</b>	<b>JP26</b>	<b>JP27</b>
	1-2	1-2	1-2
	2-3	1-2	1-2
	2-3	2-3	2-3
	2-3	2-3	1-2
	1-2	1-2	2-3
JP28	1-2*	2-3	
	2-3	2-3	
JP30,31	<b>JP30</b>	<b>JP31</b>	
	1-2	1-2	
	2-3	2-3	
JP34	1-2*	2-3	
	2-3	2-3	

CPU	JP18	JP19	JP20	JP21	JP22	JP24
486SX/2/SL	5-6	1-2,5-6	1-2,5-6	1-2		2-3
DX/2,487SX,ODP,DX4 (3 x clock)	1-2,5-6	1-2,5-6	1-2,5-6	1-2		1-2
DX4 (2.5 x clock)	1-2,5-6	1-2,5-6	1-2,5-6	1-2	5-6	1-2
DX4 (2 x clock)	1-2,5-6	1-2,5-6	1-2,5-6	1-2	1-2	1-2
P24D	4-5	1-2,5-6	1-2,5-6	1-2,3,4,5-6		1-2,4-5
P24CT	1-2,4-5	1-2,5-6	5-6	1-2		1-2
P24T (237 pin SL ODP)	4-5	1-2,5-6	5-6	1-2		1-2
DX4 ODP 3x clock	5-6	1-2,5-6	1-2,5-6	1-2		1-2
DX4 ODP 2.5x clock	5-6	1-2,5-6	1-2,5-6	1-2	5-6	1-2
DX4 ODP 2x clock	5-6	1-2,5-6	1-2,5-6	1-2	1-2	1-2
AMD486SXL, SX2L	5-6	4-5	4-5		4-5	2-3
AMD486DXL, DX2L	5-6	4-5	4-5		4-5	1-2
AMD486DXL4 3x clock	1-2,5-6	4-5	4-5		4-5	1-2
AMD486DXL4 2x clock	1-2,5-6	4-5	4-5		4-5	1-2,4-5
Cyrix 486DX,DX2	2-3,5-6	2-3,5-6	2-3	2-3	2-3	1-2
Cyrix 486DX2-V (JP23 1-2,4-5)	2-3,5-6	2-3,5-6	2-3	2-3	2-3	1-2
Cyrix DX5 3x clock	1-2,4-5	1-2,5-6	1-2,5-6	1-2,3,4,5-6		1-2
Cyrix DX5 2x clock	1-2,4-5	1-2,5-6	1-2,5-6	1-2,3,4,5-6	1-2	1-2



### VL/ISA-486SV2 Rev 1.7

Jumpers marked TP are factory set and must not be changed. The defaults are given below because the board will not work if they are in the wrong position.

TP2	TP5	TP13	TP14	TP15	TP17	TP25	TP26	TP27
Short	Open	1-2	1-2	1-2	2-3	1D	Open	1D

Jumper	Position	Function		
BJP1	Ext	External battery at BCON1		
	Int	Internal battery		
JP2	CGA	CGA display		
	Mono/other	Mono or other display		
JP22	Intel	Intel CPU		
	Cyrix	Cyrix CPU		
CJ1-3	<b>CJ1</b>	<b>CJ2</b>	<b>CJ3</b>	<b>Cache size</b>
	2-3	2-3	Open	64K (8Kx8x8)
	1-2	Open	Short	128K (32Kx8x4)
	1-2	1-2	Open	256K (32Kx8x8)
CPJ1-3	<b>CPJ1</b>	<b>CPJ2</b>	<b>CPJ3</b>	<b>PGA CPU Type</b>
	Open	2-3	1-2	486SX PGA
	1-2	1-2,3-4	1-2	486DX/DX2
	2-3	2-3	1-2,3-4	487SX/Overdrive/486SX-PQFP
CS1-3	<b>CS1</b>	<b>CS2</b>	<b>CS3</b>	<b>CPU External clock speed (with clock generator)</b>
	1-2	1-2	1-2	20 MHz
	1-2	1-2	2-3	25 MHz
	2-3	2-3	2-3	33 MHz
	1-2	2-3	2-3	40 MHz
2-3	1-2	1-2	50 MHz	

### VL/I-486SV2G(GX4)

Rev 2.0 and later.

Jumper	Position	Function		
JP5,6	<b>JP5</b>	<b>JP6</b>	<b>CPU Type (Hardware Trap)</b>	
	1-2	2-3	486DX24ODP,487SX,SL	
	1-2	2-3	486SX,DX,DX2,DX4,AM486DX4-NV8T,DX2-NV8T	
	2-3	1-2	Cyrix DX(2),DX2-V,DX4,5x86	
	2-3	1-2	AM486DXL4,DXL2,Ti486DX-G	
	1-2	1-2	i486DX4-&EW,P24D,P24T,AM486DX4-SV8B	
JP11	1-2		Cyrix CPU	
	2-3		AMD/Intel CPU	
JP23-25	<b>JP23</b>	<b>JP24</b>	<b>JP25</b>	<b>CPU external clock speed</b>
	1-2	1-2	1-2	20 MHz
	2-3	1-2	1-2	25 MHz
	2-3	2-3	2-3	33 MHz
	2-3	2-3	1-2	40 MHz
1-2	1-2	2-3	50 MHz	
JP32,33	<b>JP32</b>	<b>JP33</b>	<b>CPU Voltage</b>	
	1-2	Open	3.45	
	2-3	Open	3.6	
	Open	1-2	4	
	Open	2-3	3.3	

CPU	JP16	JP17	JP18	JP19	JP20	JP21	JP22
AMD486-SV8B, iDX4-EW iDX2-&EW(P24D)	1-2,5-6	1-2,5-6	1-2	1-2,3-4,5-6	Open*	Short	1-2,4-5

CPU	JP16	JP17	JP18	JP19	JP20	JP21	JP22
AMD4-486T, DX2-486T DXL4,DXL2	1-2,5-6	4-5	4-5	Open	4-5	Open ***	1-2,4-5
i486DX4ODP	5-6	1-2,5-6	1-2,5-6	1-2	Open*	Open	1-2
iSL486SX,SX2, NonSL486SX,SX2	5-6	1-2,5-6	1-2,5-6	1-2	Open	Open	2-3
Cx486DX4(3.45V) Cx286DX2-V(3.6V/4V) Ti486DX2-G(3.45V) Cx486DX,DX2	2-3,5-6	2-3,5-6	2-3	2-3	2-3	1-2 ****	1-2
Cx486DX4-P/O Cx5X86(M1sc)	1-2,5-6	1-2,5-6	1-2	1-2,3,4,5-6	Open*	Open	1-2
iSL(NonSL)486DX,DX2 iSL(NonSL)487SX,ODP i486DX4	1-2,5-6	1-2,5-6	1-2,5-6	1-2	Open*	Open	1-2
P25T & 237-Pin SL ODP	4-5	1-2,5-6	5-6	1-2	Open	2-3	1-2
AM5x86-P75(x5-133MHz)	1-2,5-6	1-2,5-6	1-2	1-2,3,4,5-6	Open**	2-3	1-2,4-5
Cx5x86(M1sc)-133MHz	1-2,5-6	1-2,5-6	1-2	1-2,3,4,5-6	Open**	Open	1-2

\* Open (3x) 1-2 (2x) 5-6 (2.5x) \*\*Open (3x) 1-2 (4x) \*\*\*Open (3x) 2-3 (2x) \*\*\*\*open DX/2

### VX97

Jumpers	Position	Function
BBLKW	1-2 2-3	Disable Boor Block Programming Enable
JP 1	Closed*	Reserved – Battery Test Jumper
FS0-2	<b>FS0</b> <b>FS1</b>	<b>CPU Ext Clk</b>
	1-2      2-3	75 MHz
	2-3      1-2	66 MHz
	1-2      2-3	60 MHz
	2-3      2-3	55 MHz
	2-3      2-3	50 MHz
BF0,1	<b>BF0</b> <b>BF1</b>	<b>Frequency Ratio</b>
	1-2      1-2	3.5
	1-2      2-3	3
	2-3      2-3	2.5
	2-3      1-2	2
	1-2      1-2	1.5

### Astar

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9	P55-SA	AC	P55-TH

#### P55-TH

EpoX P55-TH

### AT&T

See also Olivetti

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	1455	1-00	GIS Globalyst 330-360

## 1455

Same as Mitac LH4077C?

## ATC

[www.atc.co.jp](http://www.atc.co.jp)

See A-Trend

## ATI

## SX

Requires BIOS upgrade for Windows enhanced mode. J8 & J9 to 32K page memory allocation, not 16K.

## Atima Technology

See Gemlight [www.atima.com](http://www.atima.com)

## ATL

### Yukon HX

Rev 2.0 and later.

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JP9, J31	<b>JP9</b>	<b>J31</b>		(JP9 5-6, 7-8)
	On	On		P54
	Off	Off		P55
JB2,3	JB2 All on			5v DRAM Power
	JB3 All on			3v DRAM Power
J2,3,4	<b>J3</b>	<b>J4</b>	<b>J2</b>	<b>CLK</b>
	On	On	x	50
	On	Off	1-2	60
	Off	On	2-3	66
	Off	off	x	RS50
JB1	1-2, 3-4			1.5x CPU
	3-5, 2-4			2
	1-3, 4-6			3
	3-5, 4-6			2.5
J5	Close			CLK/4
	Open			CLK/3
J8	In			Clear CMOS
	Out			Normal
J11	1-2			PNP
	2-3			Non PnP

## A-Trend

[www.a-trend.com](http://www.a-trend.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	ALI 1762 or 1442G	AC-00	ATC 5000
4C	ATC 1000	BC-00	ATC 1425B
9C	ATC 1000/2000/5000	H	ATC 1425B
9C	ATC 1020	HC-00	ATC 1425A

### ATC 1000+

430VX. Aka Fugutech M 507

Jumper	Position	Function
JP3,4	<b>JP3</b>	<b>Host clock</b>
	Open	Open
	Close	Close
	Open	Open
JP5	1-2	VRE CPU voltage (3.4-3.6v)
	3-4	STD CPU voltage (3.31-3.6v)
	1-2	3.5v CPU core
	3-4	3.3v CPU core
	5-6	2.9v CPU core
	7-8	2.8v CPU core
JP6	1-2	2.7v CPU core
	2-3	Single voltage CPU (P54C, 6x86, K5) Dual Voltage (P55C)
JP8,9	<b>JP8</b>	<b>Clock multiplier</b>
	1-2	1-2
	1-2	2-3
	2-3	2-3
	2-3	1-2

### ATC 5000

430VX

Jumper	Position	Function
JP2	2-3,4-5	2x
	2-3,5-6	2.5x
	1-2,5-6	3x
JP3	1-2,5-6	60 MHz host clock
	1-2,4-5	66 MHz host clock
	2-3,4-5	75 MHz host clock
JP6	1-2	VRE CPU voltage (3.4-3.6v)
	3-4	STD CPU voltage (3.31-3.6v)
	1-2	3.5v CPU core
	3-4	3.3v CPU core
	5-6	2.9v CPU core
	7-8	2.8v CPU core
	9-10	2.7v CPU core

Unable to verify core voltages!

### ATC 6220

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	500	
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 shared
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	

Item	Description	Notes
Video		AGP
Performance		Good, but SuperMicro P6SBA is faster
Comments		133 MHz bus – stable when overclocked

### ATC 6254M

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)		
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/2 ISA	1 shared
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		3Dfx Voodoo3 2000 (16 Mb)
Audio		Yamaha YMF740C

### FW-6280BXDR/155

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	SMP Slot 1
Cache		
Chipset	Intel 440BX	
Bus	6 PCI	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x
Comments		SuperMicro P6DGU is better

## Attractive Computer Technology

### Auhau Electronics (Sukjung)

[www.computersources.com.hk/auhau](http://www.computersources.com.hk/auhau)

### AVT Industrial

Formerly Concord

### Azza

[www.azzaboard.com](http://www.azzaboard.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	4SIG	BC-00	PT 51V
2C	4SPI	DC-00	5IW
9C	PT 51H	EC-00	PT 51V
9C-00	PT 51V	FC	PT 51VH
AC-00	PT 51S/VL		

*4SIG*

Same as Kaimei KM-S4-1 PCI rev 5.1 or Rectron RT 4S3

# B

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## BCM

BCM Advanced Research Inc, or GVC [www.bcmgvc.com](http://www.bcmgvc.com)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
A	SQ 599	HC	SQ 595
AC	SQ 593 or 594	HC-00	LX 770 486 PCI
AC-00	SQ 599/P54SB	IC	SQ 595/575
BC	SQ 576	KC	FR 550
DC	SQ 591 or 594		

## BCOM

### Bek-Tronic

See also Bestkey

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC-00	BEK P405		

### Bestkey

See also BEK-Tronic

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC	5725		

## Biostar

www.biostar-usa.com www.biostar.com.tw www.biostar.net

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	MB 1566PAT-B VIP	A-00	MB 8500 URC
3	MB 8433/40 UUC	B(C)	MB 8500SAC
8	MB 8433UUD-A v3.1	BC	M6TBC (BX)
8C-00	MB 8433UUD	DC	M6TLC (LX)
9C	MB-8500TEC	YC-00	MB 8433 /40 /50UUC-A v2.1
9C-00	M5ATA		

### 8433UUD

Item	Description	Notes
Form Factor	AT	
CPU	486	Including AMD 5x86/P75
Speeds (MHz)	25, 33 or 40	
Chipset	UMC 888X	
BIOS	Award	
Bus	3 PCI/4 ISA	PCI bus can use 25, 26.67 or 33 MHz
Memory (Mb)		72-pin only. Will use EDO with the UUD960326I BIOS. May not like TI memory.
Cache (K)		
I/O	2S, 1P, PS/2	May not use 3 parallel ports. May be problems with built-in PS/2 mouse.
Performance		
Problems		May not be able to use more than PIO Mode 3, despite BIOS
Comments		Also known as Quantex MBD-4PB2 or 4MB2

- CPU Selection** JP16, JP37, JP39, JP45, JP46, RN11-15
- CPU Speed Selection** Remove JP15 for 40 MHz.
- Cache (K) Selection** JP5, 6, 7
- Flash ROM Selection** J13, Intel (12 v) or SST (5 v).
- DMA Channel Selection** JP8, 9

### 8500TVX

Jumper	Position	Function	
JP3	1-2	5v Flash ROM	
	2-3	12v Flash ROM	
JP4	Open	Normal	
	Closed	Clear CMOS	
JP5	3-4	66 MHz bus clock	
	1-2	60 MHz	
	1-2,3-4	50 MHz	
	Both Open	55 MHz	
JP8-9	<b>JP8</b>	<b>JP9</b>	<b>Clock Multiplier</b>
	Open	Open	1.5
	Open	Closed	2*
	Closed	Closed	2.5
	Closed	Open	3
	Open	Open	3.5

v2.3 + - otherwise both open



Jumper	Position	Function
JP6, 11	<b>JP6</b>	<b>JP11</b>
	1-2	1-2,3-4
	2-3	open
		<b>CPU Type</b>
		Single Voltage
		Dual Voltage
JP7	Open	256K cache
	Closed	512K cache
JP12	Open	3.5v CPU (VRE)
	Closed	3.45v CPU (Std & VR)
JP14	Open	2.9v (Dual Voltage CPU)
	Closed	2.6v

Password recovery: Power off Close JP4 Power On, then off after memory count. Open JP4 Power On reset password

### M6TBA

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/III	Slot 1
Chipset	440BX	
BIOS	Award	
Bus	4 PCI/3 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, PS/2, USB, EIDE	
Video		AGP
Comments		Supermicro P6SBA a better choice

### M6TWC

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Chipset	Intel 810	
BIOS		
Bus	3 PCI	
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		onboard

### M7MKA

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Chipset	AMD 751/756	
BIOS	Award	
Bus	5 PCI/2 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy	
Video	AGP	2x

### Bioteq

European name for Biostar. [www.bioteq.com](http://www.bioteq.com)

### BJMT Technology

[www.bjmt.com](http://www.bjmt.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	Nimble VX	BC	Nimble Triton-III VX

### 82430VX

Same as FYI 82430VX P55C

Jumper	Position				Function
JP1,2	<b>JP1</b>	<b>JP2</b>			<b>IR function</b>
	1-2	1-2			COM2
	2-3	2-3			IR
JP7-9 17-18	<b>JP7</b>	<b>JP9</b>	<b>JP17</b>	<b>JP18</b>	<b>Cache size</b>
	1-2	2-3	2-3	1-2	256K (onboard)
	1-2	2-3	2-3	1-2	256K (module)
	2-3	2-3	2-3	1-2	512K (onboard)
	2-3	2-3	2-3	1-2	512K (module)
JP8	1-3,2-4				5v DIMM
	3-5,4-6				3.3v DIMM
JP12,13	<b>JP12</b>	<b>JP13</b>			<b>Host bus clock</b>
	On	On			50 MHz
	Off	Off			55 MHz
	Off	On			60 MHz
	On	Off			66 MHz
J14,15	<b>J14</b>	<b>J15</b>			<b>BIOS type</b>
	1-2	1-2			EPROM
	1-2	2-3			5v Flash
JP19,20	2-3	2-3			12v flash
	<b>JP19</b>	<b>JP20</b>			<b>Clock multiplier</b>
	Off	Off			1.5x
	On	Off			2x
JP26	On	On			2.5x
	Off	On			3x
	1-2,3-4				3.3v CPU
	1-2				3.45v CPU
	3-4				3.52v CPU
	All off				3.6v CPU voltage

### Nimble Triton-III VX

FYI board.

### Bluepoint Technology

### BMA

USA name for Biostar.

### Brother

### BC 3286

Jumper	Position			Function
J9,26	<b>J9</b>	<b>J26</b>	<b>SW2-1</b>	<b>Display</b>
SW2-1	In	In	Off	Onboard Mono
	Out	Out	Out	External

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J13	1-2	RAS delay 100ns
	2-3	RAS delay 80ns
J17	1-2	1.5ns RAS via F08 delay
	2-3	2.2ns RAS via F08 delay
J18	In	Turbo mode
	Out	Normal ops
J19		Reserved
SW1	3-4	512K base memory
	2-3	640K base memory
	4	1 Mb base memory
SW2	1	Enable COM2
	2	Enable LPT
	3	Enable COM1

### BC 3386sx

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J1	In	80387sx installed
J8	1-2	27512K BIOS size
	2-3*	27256K BIOS size
J12	In*	External delay for timing
	1-2	Access time 85ns
	2-3	Access time 90ns
J20	1-2	Enable IRQ9
J21	4-2	44256 in U39, U57 for 256K memory
	3-4	44256 in U39, U38 & U52 for 512K memory
J22	1-6*	Enable COM2
	2-5*	Enable LPT
	3-4*	Enable COM1
J23	1-2	256K DRAM clock select
	2-3	512K DRAM clock select
J25	Out	Normal ops
	In*	Turbo
J31,32		Reserved
J33	1-2	Non-interlaced monitor
	2-3*	Interlaced monitor
J36	Out*	VGA 16-bit data path
	In	VGA 8-bit data path

### BC 5386sx

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2	1-2	512K BIOS size (27512 x 2)
	2-3	256K BIOS size (27256 x 2)
JP4,5	<b>DRAM type</b>	<b>JP4</b> <b>JP5</b> <b>Wait state</b>
	100 ns FPM	1-2      1-2      0 or 1
	100ns FPM	1-2      2-3      0 or 1
	All 100 ns	2-3      1-2      1 or 2
	120 ns	2-3      2-3      2 or 3
JP6	1-2	CGA display
	2-3	Mono display
JP10	1-2	ROM type 512K (27512)
	2-3	ROM type 256K (27256)
JP11	In	Copro clock asynchronous
	Out*	Copro clock synchronised
JP102	1-2	Power good signal from power supply
	2-3	Power good signal by main board

**BC 5386dx**

Jumper	Position	Function
JP1	In*	Colour display
	Out	Mono display
JP3	1-2	27512K BIOS size
	2-3	27256K BIOS size
JP5	1-2	80ns DRAM
	2-3	100ns DRAM
JP6	1-2*	Copro not installed
	2-3	Copro installed
JP8	In*	High speed
	Out	Low speed

**SW1**

S2	S3	S6	S7	S8	Bank 1	Bank 2	Bank 3	Bank 4	Total
Off	Off	Off	Off	Off	256Kx9				1 Mb
Off	On	Off	Off	Off	256Kx9				2 Mb
Off	On	On	Off	Off	256Kx9	256Kx9			3 Mb
Off	On	On	On	Off	256Kx9	256Kx9	256Kx9		4 Mb
On	Off	Off	Off	Off					4 Mb
On	On	Off	Off	Off	1 Mbx9				8 Mb
On	On	On	Off	Off	1 Mbx9	1 Mbx9			12 Mb
On	On	On	On	Off	1 Mbx9	1 Mbx9	1 Mbx9		16 Mb

When S8 is On, only 14 Mb is detected. The additional 2 Mb is for add-On cards with their own memory.

**Bull**

**APW**

Jumper	Position	Function
J5	In	Disable HD
J7		Reserved
J07	1-2*	Onboard battery
	2-3	External battery
J10	1-2	5¼ and 3½ floppies
	2-3*	3½ floppy only
J14	1-2*	Mono display
	2-3	Colour display
	Out	Display card in 16-bit slot
J16		Reserved

**AP-M45/Micral 45**

Jumper	Position	Function
SWD1	Display	1-1    1-2    1-3    1-4    JDO1
JDO1	Mono	Off    Off    Off    Off    2-3
	Colour	On    Off    Off    Off    2-3
	EGA	Off    On    On    On    1-2

**SW1**

Switch	Position	Jumper
1,2	<b>Memory</b>	<b>S1    S2</b>
	640K	On    Off
	1152K	Off    Off
	Bank 2=2 Mb	On    On
	Extended memory	Off    Off
3		Reserved
4	On	Add-On Mono
	Off	Add-On CGA

Switch	Position	Jumper
5	Off	Enable video
6,7,8		Reserved

## SW2

Switch	Position	Function
1	Off*	Enable mouse
2	Off*	Disable mouse IRQ5
3	On*	Enable mouse IRQ3
4	On	CP8 interface address 0370-0377h Parallel address 278-27Fh Serial address 2F8-2FFh
5	Off*	SCSI address 320-327h
	On	SCSI address 328-32Fh
6	Off*	Enable SCSI IRQ7
7	On*	Enable SCSI IRQ15
8	Off*	Enable parallel IRQ5
9	Off*	Enable parallel IRQ7
10	On*	Enable IRQ3 CP8 interface

## BM 200

## JMP1

Jumper	Position	Function
ST11	Out	27256 EPROM-1 (170ns) 2 WS
ST5	In	8 MHz bus
ST2	Out	RAM: 1 WS
ST3	In	ROM: 2WS
ST7	In	1 Mb DRAM 120ns
ST8	In	4 x 256 x 9
ST9	Out*	
ST4	Out	Fast mode

## JMP2

Jumper	Position	Function
ST34	In	Precomp 187 ns
ST35	In	DRQ2 sent (DMA for floppy)
ST48,49	CTS CP8-CP8	<b>ST48</b> <b>ST49</b> Out        In In*        Out*
ST50,51	DSR CP8-CP8	<b>ST50</b> <b>ST51</b> Off        On On*        Off*
ST52,53	RXD CP8-CP8	<b>ST52</b> <b>ST53</b> Out        In In*        Out*

## JMP3

Jumper	Position	Function
ST30	In	HDCS1 1F0-1F7h
ST29	In	HDCS2 3F6-3F6h
ST27	In	SERICS (COM2-CP8) 2F8-2FFh 390-397h 370-377h
ST26	In	SEROCS (COM1) 3F8-3FF
ST32	In	FLPCS3 (floppy) 3F7h
ST31	In	FLPCS2 (floppy) 3F2h
ST28	In	PRTCS (parallel) 278-27Fh, 378-37Fh
ST33	In	FLPCSI (floppy) 3F4h/3FS

**JMP4**

Jumper	Position	Function
ST10	Out	DRAM 120/150ns
ST38	In*	
ST43	In	VGA DRAM memory selected – off for EGA
ST13	In	VGA I/O selected
ST47	In	IRQ7 selected
ST46	Out*	
ST24	In	2F8-2FFh V24 (9 pin)/CP8
ST25	In	3F8-3FFh V24 SEROCS 378-37Fh PARALL-PRTCS

**JMP5**

Jumper	Position	Function
ST22	Out*	
ST19		
ST18	Out	Reserved
ST20	Out*	
ST21	Out	VGA
ST56	Out*	
ST6	In	48 MHz system clock connected
ST12	In	Colour display
	Out	Mono display
ST14	In	14.832 MHz clock connected
ST15	In	36 MHz VGA clock
ST16	In	25.175 MHz VGA clock
ST17	In	28.322 MHz VGA clock
ST36	In	16 MHz clock
ST37	In	9.6 MHz floppy interface
ST40	Out	Link from P6 mechanical grd to 0v not established
ST41	In	MEMCS16 disabled (no video 16-bit access)
ST42	In	IOCHRDY (HD connected)
ST44	In	IRQ14 only
ST45	Out*	
ST54	In	Power supply +5v
ST55	Out	Serial/parallel I/O address

For non-VGA monitors, remove JMP4 ST13 and 43 and add JMP5 ST23 and 21. Add ST21 for Mono.

**EP Main Logic**

Jumper	Position	Function
W2	<b>Video</b>	<b>1 2 3 4 5 6</b>
	Enable	Off* Off* Off* On* On* On*
	Disable	On On On Off Off Off
U158	<b>Memory</b>	<b>S1 S2 S3</b>
	256K	On On Off
	512K	On Off Off
	640K	Off* Off* Off*
U173	<b>Bank Address</b>	<b>S1 S2 S3 S4</b>
	C0000-C3FFF	On On On On
	C4000-C7FFF	On On On Off
	C8000-CBFFF	On On Off On
	CC000-CFFFF	On On Off Off
	D0000-D3FFF	On Off On On
	D4000-D7FFF	On Off On Off
	D8000-DBFFF	On Off Off On
	DC000-DFFFF	On Off Off Off
	E0000-E3FFF	Off On On On

Jumper	Position	Function
	E4000-E7FFF	Off On On Off
	E8000-EBFFF	Off On Off On
	EC000-EFFFF	Off On Off Off
	Disabled	Off* Off* Off* Off*
U178	On*	8087-2 not installed
1	Off	8087-2 installed
2	On*	Reserved
3	On*	Enable Onboard HD
4	On*	One floppy
	Off	Two floppies
5,6	Video	6
	Not used	On On
	80x25 colour	Off On
	40x25 colour	On Off
	Mono	Off* Off*

### Micral 600

Jumper	Position	Function
SW1	On*	Sets EPROM and I/O recovery delay
SW2	On*	25 pin=COM1 * 9 pin=COM2
S1	Off	9 pin=COM1 * 25 pin=COM2
S2	Off*	Enable COM1
S3	Off*	Enable COM2
S4	Off*	Enable LPT1
S5-7	<b>Printer port</b>	<b>S5 S6 S7</b>
	LPT1	Off Off On*
	LPT2	On On Off
S8	On	ROM BIOS
	Off*	BIOS in RAM
S9	On	Primary display CGA
	Off*	Primary display Mono
S10	On*	Enable 2 <sup>nd</sup> SIMM block (B)
JP6-8	<b>Maths copro</b>	<b>JP6 JP7 JP8</b>
	80387 installed	2-3 2-3 2-3
	Not installed	1-2 1-2 1-2
JP12	1-2*	Relocate RAM at 0A0000-0Dffff to FA0000-FDFFFF
JP13-16	<b>RAM</b>	<b>Type Block JP13 JP14 JP15 JP16</b>
	2 Mb	512x9 A 2-3 2-3 1-2 1-2
	4 Mb	512x9 A&B 2-3 2-3 1-2 1-2
	6 Mb	512x9 A 1-2 1-2 1-2 1-2
		1Mx9 B
	4 Mb	1Mx9 A 1-2 1-2 2-3 2-3
	8 Mb	1Mx9 A&B 1-2 1-2 2-3 2-3

### SP-16 Processor Card

Jumper	Position	Function
S1	1-2*	Colour display
	2-3	Mono display
SW2-1	On*	80387 installed
SW2-2	Off*	Reserved
SW2-3	Off*	Video DMA
SW2-4	Off*	NMI failsafe timer disabled
SW2-5	Off*	INT 10 not selected
SW2-6	Off*	INT 11 not selected
SW2-7	Off*	INT 12 not selected

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
SW2-8	On	Normal system speed during floppy access
	Off	Emulate 8MHz during floppy access

### SP-SX V16 Processor Card

<i>Jumper</i>	<i>Position</i>	<i>Function</i>				
S1	1-2*	Colour display				
	2-3	Mono display				
S2	1-2*	16 MHz CPU				
	2-3	8 MHz CPU				
S3-1	Out*	4 wait states				
	In	3 wait states				
S3-2	Out*	Autoswitch mode				
	In	8 MHz mode				
S3-3	Out*	0-512K				
	In	0-256K				
S3-4	Out*	512K-1Mb enabled				
S3-5,6,7,8	<b>Memory</b>	<b>Mapping Area</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>
	Deselected		In	In	In	In
	0	100000-160000	Out*	In*	In*	In*
	1	200000-260000	In	Out	In	In
	2	300000-360000	Out	Out	In	In
	3	400000-460000	In	In	Out	In
	4	500000-560000	Out	In	Out	In
	5	600000-660000	In	Out	Out	In
	6	700000-760000	Out	Out	Out	In
	7	800000-860000	In	In	In	Out
	8	900000-960000	Out	In	In	Out
	9	A00000-A60000	In	Out	In	Out
	10	B00000-B60000	Out	Out	In	Out
	11	C00000-C60000	In	In	Out	Out
	12	D00000-D60000	Out	In	Out	Out
13	E00000-E60000	In	Out	Out	Out	
14	F00000-F60000	Out	Out	Out	Out	

### SP-20 Processor Card

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	1-2*	Colour display
	2-3	Mono display
SW2-1	On*	80387 installed
SW2-2	On	Auxiliary Input Device port enabled
SW2-3	Off	Video RAM shadowed
SW2-4	Off	NMI failsafe timer disabled
SW2-5	Off*	INT 10 not selected
SW2-6	Off*	INT 11 not selected
SW2-7	Off*	INT 12 not selected
SW2-8	On	Normal system speed during floppy access
	Off	Emulate 8MHz during floppy access





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## Caliber Computer Corp

[www.calibercorp.com](http://www.calibercorp.com)

## California Graphics & Peripherals

[www.californiagraphicsusa.com](http://www.californiagraphicsusa.com)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	Sunray VIA	TC	Sunray II Pro rev D
LC-00	Sunray II Pro rev A1		

### *Sunray II Pro*

Rev A1 - Soyo 5TC2? Rev D Wintec MP064?

### *Sunray VIA*

EpoX P55-VP

## ChainTech

ELT [www.chaintech.com.tw](http://www.chaintech.com.tw)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	486SLB	A	Chaintech 5SEM
1-00	5UBM or 4SLE	AC-00	5HTM rev M101/586SEM

Code	Motherboard	Code	Motherboard
2-B2	486SPM	AC	586IEM/O/0.1
9C	6BTM (BX)/ 6LTM (LX)/5IFM	BC	5IEM
9-01	5SBM2	C-00	486SPM M1.02
9C-00	5SEM M102	DC	6FTM
9C-01	5IDM2 M105 (FX)	I	486SPM
9C	5VGM/5IFM/5IGM M 101		

### CT-3AGM2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Super Socket 7
Cache	512 Kb	
Chipset	Via MVP3	
BIOS		
Bus	3 PCI/3 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x

### CT-5AGM2

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Speeds (MHz)	550	
Chipset	VIA MVP3	
BIOS		
Bus	4 PCI/3 ISA	1 shared. 100 MHz bus speed
Memory (Mb)	384	3 DIMM sockets
Cache (K)	512	
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		About average

### CT-6AJA4

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	733/700	133 FSB
Chipset	VIA Apollo Pro 133A	UDMA 66
BIOS	Award	
Bus	5 PCI 1 ISA 1 ANR	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Audio	CMedia 8738	AGP

### CT-6ATA2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	VIA Apollo Pro Plus	
Bus	4 PCI/2 ISA	1 shared UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP

### CT-6ATA4

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Chipset	Via Apollo	
Bus	5 PCI/1 ISA/1 AMR	1 shared UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		AGP

### CT-6BDU

Essentially jumperless except for clock frequency and keyboard power-on.

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1
Speeds (MHz)	450	
Chipset	440BX	
Bus	4 PCI/3 ISA	112 MHz bus speed
Memory (Mb)		4 DIMM sockets
I/O	2 EIDE, floppy, USB	Ultra 2 SCSI with RAIDport III on board
Video		AGP

### CT-6BTA3

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Chipset	440BX	
Bus	4 PCI/2 ISA	1 shared
Memory (Mb)	1 Gb	4 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		AGP
Comments		CT 6ATA2 is cheaper with faster EIDE

### CT-6BTM

Essentially jumperless except for clock frequency and keyboard power-on.

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	800/533	
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 shared. 133 MHz bus speed
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Slow-Good – similar to Soyo SY-6BA+

### CT-6ESA2

Essentially jumperless except for clock frequency and keyboard power-on.

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1

Item	Description	Notes
Speeds (MHz)	333	
Chipset	440EX	
Bus	2 PCI/2 ISA	1 shared. 83 MHz bus speed
Memory (Mb)	256	2 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		AGP
Audio	Stereo audio	

### CT-6ESV

Essentially jumperless except for clock frequency and keyboard power-on.

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	333	
Chipset	440EX	
Bus	2 PCI/2 ISA	1 shared. 83 MHz bus speed
Memory (Mb)	256	2 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video	Rage II-C 4 Mb	AGP
Audio	Stereo audio	

### CT-6LTM

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	375 MHz	
Chipset	440 LX	
BIOS		
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	384 Mb SDRAM 768 Mb EDO	3 DIMM sockets
I/O	2 EIDE, floppy	
Video		AGP
Performance		Fast
Comments		Almost identical to QDI Legend. Jumperless.

### CT-6OJV2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	1000/733	150 FSB
Chipset	Intel 815E	UDMA 100
BIOS	Award	
Bus	6 PCI 1 CNR	
Memory (Mb)	512 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video	Intel 815 GMCH	
Audio	CMedia 8738	AGP

### CT-6WIV

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Chipset	Intel 810	

Item	Description	Notes
Bus	3 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

### CT-6WSV2

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron/PiI	Slot1
Chipset	Intel 810E	
Bus	3 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		Embedded 3D AGP

### Chaplet

### Chicony

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	CH 471B	H-00	CH 880C
1-08	C471	H-02	CH 890A
4-01	CH 881A	HC	CH 880C

### CH-471A

Jumper	Position							Function						
JP7	1-2							Normal						
	2-3							Clear CMOS						
JP8,12,13	JP8 Out Out In Out In	JP12 Out Out In In Out	JP13 Out In In In Out					<b>CPU Speed</b>						
								20 MHz						
								25 MHz						
								33 MHz						
								40 MHz						
JP1,JP2-5 14,16	JP1 1-2,3-4 2-3,4-5 1-2,3-4 2-3,4-5 1-2,3-4 2-3,4-5	JP2 2-3 1-2 2-3 2-3 2-3 1-2	JP3 1-2 2-3 2-3 2-3 2-3 2-3	JP4 1-2 2-3 2-3 2-3 2-3 2-3	JP5 1-2 1-2 1-2 2-3 2-3 2-3	JP14 1-2 1-2 1-2 2-3 2-3 2-3	JP16 1-2 1-2 2-3 2-3 2-3 2-3	<b>Cache Size</b>						
								32K						
								64K						
								128K						
								256K						
								512K						
1 Mb														
JP 32,34, 35	1-2							5v CPU (P24C/T)						
	2-3							3.3v CPU						
JP40	1-2							Normal						
	2-3							Address Strobe Delay						
JP44	1-2							VESA 0 wait						
	2-3							VESA 1 wait						
JP47	1-2							VESA <= 33 MHz						
	2-3							VESA >33 MHz						

JP	20	21	29	31	25	23	26	24	11	10	30	33	36	28	27
SX	2-3	Out	2-3	Out	Out	Out	Out	Out	2-3	1-2	Out	Out	Out	Out	Out
DX	1-2	In	2-3	3-4	Out	Out	Out	Out	2-3	1-2	Out	Out	Out	Out	Out
P24T	1-2	In	1-2	2-3	3-4	Out	2-3	1-2	1-2	1-2	1-2	1-2	1-2	Out	Out
SX-SL	2-3	Out	2-3	Out	3-4	1-2	2-3	4-5	2-3	1-2	Out	Out	1-2	Out	Out
DX-SL	1-2	In	2-3	3-4	3-4	1-2	2-3	4-5	2-3	1-2	Out	Out	1-2	Out	Out
DX-SL	1-2	In	2-3	3-4	3-4	1-2	2-3	4-5	2-3	1-2	Out	Out	1-2	Out	Out
M6	2-3	Out	2-3	Out	2-3	Out	1-2	2-3	1-2	2-3	2-3	2-3	1-2	Out	Out
					4-5		3-4								
Cyrix DX/2	1-2	In	2-3	3-4	2-3	Out	1-2	2-3	1-2	2-3	2-3	2-3	1-2	Out	Out
							3-4								
P24D	1-2	In	1-2	3-4	1-2	2-3	2-3	4-5	2-3	1-2	Out	Out	1-2	In	In
					3-4										
P24C	1-2	In	2-3	3-4	3-4	1-2	2-3	4-5	2-3	1-2	Out	Out	1-2	Out	Out
AMDx	1-2	In	2-3	1-2	Out	Out	Out	Out	2-3	1-2	3-4	Out	2-3	Out	Out

Clevo

Commate

www.tcommate.com.tw

Compaq

www.compaq.com

DeskPro

Jumper	Position	Function
1	Off	Always Off
2	Off	8 MHz Maths copro installed
3-4	<b>3</b>	<b>4</b> <b>Memory (Kb)</b>
	On	Off 128
	Off	Off 256
	Off	On 512
	On	On 640
5,6	<b>5</b>	<b>6</b> <b>Video adapter</b>
	Off	Off Mono
	Off	On CGA 40 x 25
	On	Off CGA 80 x 25
	On	On With own BIOS
7	On	1 floppy
	Off	2 floppies
8	On	Always On

DeskPro v2/8MHz

Jumper	Position	Function
1	Off	256K X 1 DRAM
	On	64K X 1 DRAM
2,3	<b>2</b>	<b>3</b> <b>Memory (Kb)</b>
	On	On Both
	On	Off 0-256
	Off	On 0-512
	Off	Off All memory
4,5	<b>4</b>	<b>5</b> <b>Extended Memory</b>
	On	On None
	On	Off 1.5 Mb Bank 2-1; 256K DRAM
	Off	On 1-2 Mb Bank 2/3; 256K DRAM
	Off	Off 64K DRAMs

Jumper	Position	Function
		64K DRAMs
6	On	6 MHz only
	Off	6 or 8 MHz
7	Off	Always Off
8	On	Compaq or EGA monitor
	Off	Non-Compaq monitor

### DeskPro 286 Version 1

Switch	Position	Function	
1	Off	Always Off	
2	On	8 MHz 8087-2 not installed	
	Off*	Coprocessor installed	
3,4	<b>3</b>	<b>4</b>	<b>Memory (Kb)</b>
	On	Off	128
	Off	Off	256
	Off	On	512
	On	On	640
5,6	<b>5</b>	<b>6</b>	<b>Display</b>
	On	On	80 x 25 EGA, or RGBI
	Off	On	40 x 25 COMPAQ VDU*
	On	Off	80 x 25 COMPAQ VDU
	Off	Off	720 x 350 Monochrome
7	On	1 floppy	
	Off	2 floppies	
8		Always On	

\*Rev F or later ROM

### System Memory Board

Jumpers are etched on the solder side (bottom) of the board. Cut the conductor to disconnect any unwanted jumpers, then solder the wire(s) to jumpers as desired. Modifying these jumpers invalidates the warranty.

### ROM Set 1

Jumper	Function
E7-E8 E10-E11 E13-E14	8K x 8, Static ROM, 250 ns
E8-E9 E10-E11 E13-E14	16K x 8, Static ROM, 250 ns*
E7-E8 E11-E12 E13-E14	Invalid
E8-E9 E11-E12 E13-E14	32K x 8, Static ROM, 250 ns
E7-E8 E10-E11 E14-E15	8K x 8, Dynamic ROM, 150 ns
E8-E9 E10-E11 E14-E15	16K x 8, Dynamic ROM, 150 ns
E7-E8 E11-E12 E14-E15	Invalid
E8-E9 E11-E12 E14-E15	32K x 8, Dynamic ROM, 150 ns

### ROM Set 2

Jumper	Function
E16-E17 E19-E20 E22-E23	8K x 8, Static ROM, 250 ns
E17-E18 E19-E20 E22-E23	16K x 8, Static ROM, 250 ns
E16-E17 E20-E21 E22-E23	Invalid
E17-E18 E20-E21 E22-E23	32K x 8, Static ROM, 250 ns
E16-E17 E19-E20 E23-E24	8K x 8, Dynamic ROM, 150 ns
E17-E18 E19-E20 E23-E24	16K x 8, Dynamic ROM, 150 ns
E16-E17 E20-E21 E23-E24	Invalid
E17-E18 E20-E21 E23-E24	32K x 8, Dynamic ROM, 150 ns*

Switch	Position	Function
ED	1-2	Mono display
	2-3*	Compaq display, third party extended graphics, third party RGB adapters.
<p>If both Mono and Compaq video boards are installed, the Mono display is active during power on if pin is set on 1-2.</p>		
ES	1-2*	I/O Speed/RAM 6 MHz/8 MHz (fast)
	2-3	6 MHz/6 MHz (common).
<p>For system ROM E and F, between COMMON and FAST. Rev G system ROM selects between COMMON and HIGH. Rev H system ROM selects between FAST and HIGH for other 80286-based products.</p> <p>If the speed select jumper is changed to 6 MHz (2-3), the system does not respond to speed change requests from the keyboard.</p>		
7		Reserved
J108,9,10,11,12,13		Reserved

### DeskPro 286 Version 2

Assy 000361

Switch	Position	Function		
1	On	64K x 1 DRAM		
	Off	256K x 1 DRAM		
2,3	<b>2</b>	<b>3</b>	<b>Base Memory</b>	
			On On	Disable RAM and ROM
			On Off	256K
			Off On	512K
			Off Off	Enable all base Memory
4,5	<b>4</b>	<b>5</b>	<b>Memory</b>	
			Off Off	64K x 1 DRAM
			On On	256K x 1 DRAM. No extended
			On Off	Enable bank 2 for 1-1½Mb
			Off On	Enable bank 2 & 3 for 1-2 Mb
Off Off	Enable all banks for 1-2½Mb			
6	Off*	8/6 MHz		
	On	6 MHz		
7		Reserved		
8	On	COMPAQ VDU, ECG, EGA or RGBI		
	Off	Mono		
J108,9,10,11,12,13,17		Reserved		

### DeskPro 286 12 MHz

Assy 000555 & 000700

Switch	Position	Function		
1	On	64K x 1 DRAM		
	Off	256K x 1 DRAM		
2,3	<b>2</b>	<b>3</b>	<b>Base Memory</b>	
			On On	Disable RAM and ROM
			On Off	256K
			Off On	512K
			Off Off	Enable all base Memory
4,5	<b>4</b>	<b>5</b>	<b>Memory</b>	
			Off Off	64K x 1 DRAM
			On On	256K x 1 DRAM. No extended
			On Off	Enable bank 2 for 1-1½Mb
			Off On	Enable bank 2 & 3 for 1-2 Mb
Off Off	Enable all banks for 1-2½Mb			
6	Off*	12/8 MHz software select		
	On	8 MHz		



Switch	Position	Function
7		Reserved
8	On Off	COMPAQ VDU, ECG, EGA or RGBI Mono
E5	1-2 2-3	Disable processor slowdown with diskette access Enable processor slowdown with diskette access (allows time dependent copy protection schemes to work properly)
J108,9,10,11,12,13,17		Reserved

### System Memory Board

Version 2 and 3. Jumpers are etched on the solder side (bottom) of the board. Cut the conductor to disconnect any unwanted jumpers, then solder the wire(s) to jumpers as desired. Modifying these jumpers invalidates the warranty.

#### ROM Set 1

E2

Jumper	Function
1-2 4-5 7-8	8K x 8, Static ROM, 250 ns
2-3 4-5 7-8	16K x 8, Static ROM, 250 ns*
1-2 5-6 7-8	Invalid
2-3 5-6 7-8	32K x 8, Static ROM, 250 ns
1-2 4-5 8-9	8K x 8, Dynamic ROM, 150 ns
2-3 4-5 8-9	16K x 8, Dynamic ROM, 150 ns
1-2 5-6 8-9	Invalid
2-3 5-6 8-9	32K x 8, Dynamic ROM, 150 ns

#### ROM Set 2

E3

Jumper	Function
1-2 4-5 7-8	8K x 8, Static ROM, 250 ns
2-3 4-5 7-8	16K x 8, Static ROM, 250 ns*
1-2 5-6 7-8	Invalid
2-3 5-6 7-8	32K x 8, Static ROM, 250 ns
1-2 4-5 8-9	8K x 8, Dynamic ROM, 150 ns
2-3 4-5 8-9	16K x 8, Dynamic ROM, 150 ns
1-2 5-6 8-9	Invalid
2-3 5-6 8-9	32K x 8, Dynamic ROM, 150 ns*

### DeskPro 286e

#### Switchbank 1

Switch	Position	Function	
1,2	1	<b>Base Memory</b>	
	2		
	On		640K
	On		512K
	Off		Reserved
3	Off*	Option ROM disable	
	On	Option ROM enable	
4	On*	Auto power on speed	
	Off	High power on speed	
5		Reserved	
6	On	All display adapters except Mono	
	Off	Mono	

Switchbank 2

Switch	Position	Function
1	On	Secondary address (37X, 17X) FD/HD
	Off*	Primary address (3FX, 1FX) FD/HD
2	On	Disable power on password
	Off*	Enable power on password
3	On	Disable HD controller
	Off*	Enable HD controller
4,5	4	<b>Serial Port</b>
	Off*	Off* COM1 primary address 3FX, IRQ4
	On	Off COM2 secondary address 2FX, IRQ3
	Off	On Reserved
	On	On Disable
6,7	6	<b>Parallel Port</b>
	On*	Off* LPT1 primary address 3BX
	Off	On LPT1/2 secondary address 37X
	Off	Off Reserved
	On	On Disable
8	Off*	Enable video
E4	1-2	Enable IRQ12 (PS/2 mouse)
E11	1-2	8 MHz coprocessor
	2-3*	12 MHz coprocessor

Memory Jumpers

Each jumper represents one bank - a maximum of four can be expanded Memory. With modules in locations A and B, the memory expansion board must be configured as extended Memory.

Board	Module A	Module B	E1-E3	E4-E6	E7-E9	Ext	Exp	Total
1 Mb			1-2 Ext	2-3*	2-3*	1 Mb		2 Mb
			2-3 Exp	2-3*	2-3*	1 Mb	1 Mb	2 Mb
1 Mb	1 Mb		1-2 Ext	1-2 Ext	2-3*	2 Mb		3 Mb
			1-2 Ext	2-3 Exp	2-3*	1 Mb	1 Mb	3 Mb
			2-3 Exp	2-3 Exp	2-3*	2 Mb	2 Mb	3 Mb
1 Mb	1 Mb	1 Mb	1-2 Ext	1-2 Ext	1-2 Ext	3 Mb		4 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	2 Mb	1 Mb	4 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	1 Mb	2 Mb	4 Mb
1 Mb	4 Mb		1-2 Ext	1-2 Ext	2-3*	5 Mb		6 Mb
			1-2 Ext	2-3 Exp	2-3*	1 Mb	4 Mb	6 Mb
			2-3 Exp	2-3 Exp	2-3*	1 Mb	6 Mb	6 Mb
1 Mb	1 Mb	4 Mb	1-2 Ext	1-2 Ext	1-2 Ext	6 Mb		7 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	2 Mb	4 Mb	7 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	1 Mb	5 Mb	7 Mb
1 Mb	4 Mb	1 Mb	1-2 Ext	1-2 Ext	1-2 Ext	6 Mb		7 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	5 Mb	1 Mb	7 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	1 Mb	5 Mb	7 Mb
1 Mb	4 Mb	4 Mb	1-2 Ext	1-2 Ext	1-2 Ext	9 Mb		10 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	5 Mb	4 Mb	10 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	1 Mb	8 Mb	10 Mb
4 Mb			1-2 Ext	2-3*	2-3*	4 Mb		5 Mb
			2-3 Exp	2-3*	2-3*		4 Mb	5 Mb
4 Mb	1 Mb		1-2 Ext	1-2 Ext	2-3*	5 Mb		6 Mb
			1-2 Ext	2-3 Exp	2-3*	4 Mb	1 Mb	6 Mb
			2-3 Exp	2-3 Exp	2-3*		5 Mb	6 Mb
4 Mb	1 Mb	1 Mb	1-2 Ext	1-2 Ext	1-2 Ext	6 Mb		7 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	5 Mb	1 Mb	7 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	4 Mb	2 Mb	7 Mb
4 Mb	4 Mb		1-2 Ext	1-2 Ext	2-3*	8 Mb		9 Mb
			1-2 Ext	2-3 Exp	2-3*	4 Mb	4 Mb	9 Mb
			2-3 Exp	2-3 Exp	2-3*		8 Mb	9 Mb
4 Mb	1 Mb	4 Mb	1-2 Ext	1-2 Ext	1-2 Ext	9 Mb		10 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	5 Mb	4 Mb	10 Mb

Board	Module A	Module B	E1-E3	E4-E6	E7-E9	Ext	Exp	Total
			1-2 Ext	2-3 Exp	2-3 Exp	4 Mb	5 Mb	10 Mb
4 Mb	4 Mb	1 Mb	1-2 Ext	1-2 Ext	1-2 Ext	9 Mb		10 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	8 Mb	1 Mb	10 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	4 Mb	5 Mb	10 Mb
4 Mb	4 Mb	4 Mb	1-2 Ext	1-2 Ext	1-2 Ext	12 Mb		13 Mb
			1-2 Ext	1-2 Ext	2-3 Exp	8 Mb	4 Mb	13 Mb
			1-2 Ext	2-3 Exp	2-3 Exp	4 Mb	8 Mb	13 Mb

## DeskPro 286N

Any jumpers are for factory testing purposes only

Jumper	Position	Function
1	On*	Enable video
2	On*	Enable ROM-resident setup
3	On*	Enable external boot
4	On*	Enable power-On password
5	On*	8 MHz coprocessor (or not installed)
	Off	12 MHz coprocessor
		Reserved in 386sx systems
6	On*	Enable diskette write
E1 On backplane	1-2	Full fan speed
	2-3	Automatic (slower, quieter speed until temp reaches 85° F)

## DeskPro 386

Version 1

Assy 000401

Jumper	Position	Function
1	On*	Reserved
2	On	Coprocessor installed
3	On	4 MHz coprocessor
	Off*	8 MHz coprocessor
4	On*	CPU boot 16 MHz except when accessing floppy, then 8 MHz
	Off	CPU boot 16 MHz always
5	Off*	Reserved
6	On	Compaq VDU, ECG, compatible EGA, RGBI, or VGC
	Off	Third party Monochrome

Version 2

Assy 000558

Jumper	Position	Function
1	On*	Reserved
2	Off*	Coprocessor not installed
3	On	80287-3/6 4MHz coprocessor
	Off*	80287-8 8MHz coprocessor
4	On*	CPU boot 16 MHz except when accessing floppy, then 8 MHz
	Off	CPU boot 16 MHz always
5	Off*	Reserved
6	On	Compaq VDU, ECG, compatible EGA, RGBI, or VGC
	Off	Third party Monochrome
7	On*	80287-3/6/8 coprocessor or none installed
	Off	80387-16 coprocessor
8	On	Reserved

### DeskPro 386N

As for DeskPro 286N

### DeskPro 386/20

SW1

Assy 000749

Jumper	Position	Function	
1	On*	Reserved – always On	
2	Off*	Coprocessor not installed	
3	Off*	Reserved – always Off	
4	On*	Auto power on speed	
	Off	High power on speed	
5	Off*	Reserved – always Off	
6	On	COMPAQ Colour or Dual Mode monitor or CGA installed	
	Off	Third party Monochrome	
7,8	7	8	<b>Base Memory</b>
			On On
	Off On	512K	
	Off Off	256K	

### DeskPro 386/25

SW1

Assy 000944 or 001069

Jumper	Position	Function	
1	On*	Reserved – always On	
2	Off*	Coprocessor not installed	
3	On	0-12 Mb cacheable memory	
	Off*	0-16 Mb cacheable memory	
4	On*	Auto power on speed	
	Off	High power on speed	
5	Off*	Reserved – always Off	
6	On	COMPAQ Colour or Dual Mode monitor or CGA installed	
	Off	Third party Monochrome	
7,8	7	8	<b>Base Memory</b>
			On On
	Off On	512K	
	Off Off	256K	

If the jumper at E14 near the system memory board is moved from its default position (closest to the system PCB) toward the center of the board, the system clock rate is changed from 25 MHz to 24, for expansion boards that encounter difficulties running at the higher clock rate.

### DeskPro 386/20e

Switchbank 1

Assy 001625

Switch	Position	Function
1	On*	Enable VGA
2	On	Disable power on password
	Off*	Enable power on password
E4	1-2	Disable IRQ12 (e.g. allows mouse to be used)
	2-3	Enable IRQ12
E10	1-2	8-bit VGA
	2-3	16-bit VGA

### Assy 000935, 001196, and 001316

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
1	On*	Enable fail safe timer
2	On	80387 installed
	Off*	80387 not installed, or Weitek installed
3	On	12-16 Mb area not cached
	Off*	12-16 Mb area cached
4	On*	Auto power on speed (20 MHz, 8 MHz accessing floppy)
	Off	High power on speed (20 MHz)
5	Off*	Reserved – always Off
6	On	Compaq Colour or Dual Mode monitor or CGA
	Off	Third party Monochrome
7,8	<b>7</b>	<b>8</b>
	Off	Off
	Off	On
	On	Off
	On	On
		<b>Base Memory</b>
		256K
		Reserved
		512
		640*

### Switchbank 2

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	Secondary address (37X, 17X) FD/HD
	Off*	Primary address (3FX, 1FX) FD/HD
2	On	Disable power on password
	Off*	Enable power on password
3	On	Disable HD controller
	Off*	Enable HD controller
4,5	<b>4</b>	<b>5</b>
	Off*	Off*
	On	Off
	Off	On
	On	On
		<b>Serial Port</b>
		COM1 primary address 3FX, IRQ4
		COM2 secondary address 2FX, IRQ3
		Reserved
		Disable
6,7	<b>6</b>	<b>7</b>
	On*	Off*
	Off	On
	Off	Off
	On	On
		<b>Parallel Port</b>
		LPT1 primary address 3BX
		LPT1/2 secondary address 37X
		Reserved
		Disable
8	Off*	Enable video

### 386/25e

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On*	Enable VGA
2	On	Disable power on password
	Off*	Enable power on password

### DeskPro 386s/20

#### Assy 002040

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
1	On*	Enable video
2	On*	Enable ROM-resident setup
3	On*	Enable external boot
4	On*	Enable power-On password
5		Reserved
6	On*	Enable diskette write
E1	1-2	Full fan speed
Backplane	2-3	Automatic (slower, quieter speed until temp reaches 85° F)

## Assy 001421

Switch	Position	Function
1	On*	Enable VGA
2	On	Disable power on password
	Off*	Enable power on password

## DeskPro 386s

## SW1

## Assy 002116

Jumper	Position	Function
1	On*	Enable video
2	On*	Enable ROM-resident setup
3	On*	Enable external boot
4	On*	Enable power-On password
5		Reserved
6	On*	Enable diskette write
E1	1-2	Full fan speed
On backplane	2-3	Automatic (slower, quieter speed until temp reaches 85° F)

## Assy 000954, 001145, 001148, 001157, and 001644

Jumper	Position	Function
1	On*	Enable fail safe timer
2	On	80387SX installed
3		Reserved
4	On	Auto power on speed (16 MHz, 8 MHz accessing floppy)
	Off*	High power on speed (16 MHz)
5	Off*	Reserved – always Off
6	On	COMPAQ Colour or Dual Mode monitor or CGA
	Off	Third party Monochrome

## SW2

## Assy 000954, 001145, 001148, 001157, and 001644

Switch	Position	Function
1	On	Secondary address (37X, 17X) FD/HD
	Off*	Primary address (3FX, 1FX) FD/HD
2	On	Disable power on password
	Off*	Enable power on password
3	On	Disable HD controller
	Off*	Enable HD controller
4,5	<b>4</b>	<b>5</b> <b>Serial Port</b>
	Off*	Off* COM1 primary address 3FX, IRQ4
	On	Off COM2 secondary address 2FX, IRQ3
	Off	On Reserved
	On	On Disable
6,7	<b>6</b>	<b>7</b> <b>Parallel Port</b>
	On*	Off* LPT1 primary address 3BX
	Off	On LPT1/2 secondary address 37X
	Off	Off Reserved
	On	On Disable
8	Off*	Enable video

## SW3

Assy 000954, 001145, 001148, 001157, and 001644

Switch	Position		Function						
1,2	1	2	<b>Base Memory</b>						
	Off	Off	256K						
	Off	On	Reserved						
	On	Off	512						
3,4,5,6	3	4	5	6	Mem	Mod A	Mod B	Total	
	On	On	On	On				1Mb*	
	On	On	On	Off	1 Mb			2 Mb	
	On	On	Off	On	1 Mb	1Mb		3 Mb	
	On	On	Off	Off	1 Mb	1 Mb	1Mb	4 Mb	
	Off	On	On	Off	4 Mb			5 Mb	
	On	Off	Off	On	1 Mb	4 Mb		6 Mb	
	On	Off	On	On	1 Mb	1 Mb	4 Mb	7 Mb	
	Off	On	Off	On	4 Mb	4 Mb		9 Mb	
	On	Off	Off	Off	1 Mb	4 Mb	4 Mb	10 Mb	
	Off	On	Off	Off	4 Mb	4 Mb	4 Mb	13 Mb	

## Jumper Settings

Assy Nos. 000954, 001145, 001148, 001157, and 001644

Switch	Position	Function
E2	On	Reserved
E3	On	Reserved
E4	1-2	Disable IRQ12 (e.g. allows mouse to be used)
	2-3	Enable IRQ12

## DeskPro 386/25e

Switch	Position	Function
1	On*	Enable VGA
2	On	Disable power on password
	Off*	Enable power on password

## DeskPro 386/33(L)

Switch	Position	Function
1	On*	Enable VGA
2	On	Disable power on password
	Off*	Enable power on password

## Assy 001987

Switch	Position	Function
1		Reserved
2	Off*	Disable lock EISA configuration
3	On	Read only diskette write
	Off*	Read/write diskette write
4	On	Enable boot from diskette
	Off*	Disable boot from diskette (override EISA configuration)
5	On	Enable erase power on password
	Off*	Disable erase power on password
6	On	Enable erase EISA configuration
	Off*	Disable erase EISA configuration

## Jumpers

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	1-2	Enable maintenance mode
E1(L)	1-2	Erase configuration
	2-3	Standard
E2	1-2	Disable power on password
	2-3*	Enable power on password
E3	2-3*	Enable VGA

## DeskPro 486/25

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	1-2	Enable maintenance mode
	2-3*	Standard mode
E2	1-2	Disable power on password
	2-3*	Enable power on password
E3	2-3*	Enable VGA

## DeskPro 486/33L

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	1-2	Erase standard configuration
	2-3*	Standard configuration
E2	1-2	Disable power on password
	2-3*	Enable power on password
E3	2-3*	Enable VGA

## DeskPro 486/50L

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1		Reserved
2	Off*	Disable lock EISA configuration
3	Off*	Diskette write enabled
4	On*	Enable boot from diskette
5	Off*	Disable power on password
6	Off*	Disable override EISA configuration

## DeskPro 486/33M

## Assy 002319/002297

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On*	Reserved – always On
2	Off*	Reserved – always Off
6	On*	Reserved – always On

## DeskPro 486s/16M

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On*	Reserved – always On
2	Off*	Reserved – always Off
6	On*	Reserved – always On

## DeskPro 486s/25M

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On*	Reserved – always On
2	Off*	Reserved – always Off
6	On*	Reserved – always On



## Deskpro 486s/25

Assy 002316/002302)

486s/16 Processor Board

Assy 002313/002300

Switch	Position	Function
1	Off*	Reserved – always Off
2	Off*	487 upgrade not installed**
6	Off*	487 upgrade not installed**

\*\* or 486 or 486/DX2

## DeskPro 486/66

Assy 002431

Switch	Position	Function
1	On*	Reserved
2	Off*	Reserved
6	On*	Reserved

## DeskPro/I

SW500

Switch	Position				Function
1,2,3,4	1	2	3	4	Processor
	Off	On	Off	On	386-25
	Off	On	Off	Off	386-33
	Off	Off	Off	On	486SX
	Off	On	On	On	487SX
	On	Off	On	On	486DX-25
	On	Off	On	Off	486DX-33
	On	Off	On	On	486DX2/50
	On	Off	On	Off	486DX2/66*
	Off	On	On	On	50 MHz overdrive
	Off	On	On	Off	66 MHz overdrive

SW501

Omitted on later models.

Switch	Position						Function
1,2,3,4,5,6	1	2	3	4	5	6	Processor
	Off	Off	Off	On	On	On	386
	On	On	On	Off	Off	Off	486SX
	On	On	On	Off	Off	Off	487SX
	On	On	On	Off	Off	Off	486DX
	On	On	On	Off	Off	Off	486DX2
	On	On	On	Off	Off	Off	50 MHz overdrive
	On	On	On	Off	Off	Off	66 MHz overdrive*

SW502

System Maintenance

Switch	Position	Function
1	Off*	Enable video
2	Off*	Disable lock setup (allows changes)
3	Off*	Diskette write enabled (e.g. read/write)
4	Off*	Reserved – always Off

Switch	Position	Function
5	On	Clear power-On and administrator password
	Off*	Allow power on and administrator password
6	Off*	Reserved – always Off

Audio

Switch	Position	Function
E1	1-2	IRQ 11
E3	1-2	IRQ 7
E6	1-2	IRQ 10
E4	1-2	Capture DMA channel 0
	2-3	Playback
E7	1-2	Capture DMA channel 1
	2-3	Playback
E9	1-2	Capture DMA channel 3
	2-3	Playback
E8	1-2	608h-60bh
	2-3	534h-537h*
6	1-2	Audio system enabled
	2-3	

DeskPro/M

Switch	Position	Function
1		Reserved
2	Off*	Disable lock EISA configuration
3	Off*	Diskette write enabled
4	On	Override EISA Configuration Diskette Boot
	Off*	Don't override
5	On	Clear power on password
	Off*	Don't clear
6	On	Erase EISA configuration
	Off*	Don't erase

Processor

Switch	Position	Function				
P2-7	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>P6</b>	<b>P7</b>	<b>Processor</b>
	1-2	1-2	3-4	1-2	1-2	486SX-25
	1-2	1-2	3-4	1-2	2-3	486SX-33
	1-2	1-2	3-4	1-2	1-2	487SX-25
	2-3	2-3	1-2	1-2	1-2	486DX-25
	2-3	2-3	1-2	1-2	2-3	486DX-33
	2-3	2-3	1-2	1-2	1-2	486DX2/50
	2-3	2-3	1-2	1-2	2-3	486DX2/66*
	2-3	2-3	2-3	1-2		ODP
	2-3	2-3	1-2	1-2		ODPR
	2-3	2-3	2-3	2-3		Pentium ODP

Switch	Position	Function
P7	2-3	33/66 MHz
	1-2	25/50 MHz
P1	2-3*	Pentium ODP in Write Back mode
	1-2	Pentium ODP in Write Through mode
P5	2-3*	Enable Onboard Video
P8	1-2*	Printer on IRQ 7
	2-3	Printer on IRQ 5
P9	Off	Clear password

## DeskPro XE

### SW500

#### Processor

Switch	Position				Function
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Processor</b>
	Off	Off	Off	Off	486SX-33
	On	Off	On	On	486DX2/50
	On	Off	On	Off	486DX2/66
	On	Off	On	Off	486DX4/100
	Off	On	On	On	487SX/25
	On	Off	On	Off	486DX-33
	On	Off	On	On	486DX2/50
	On	Off	On	Off	486DX2/66*
	Off	On	On	Off	33/66/100 MHz overdrive
Off	On	On	On	25/50/75 MHz overdrive (5v)	

### SW502

#### System Maintenance

Switch	Position	Function
S1	Off*	Enable video
S2	Off*	Disable lock setup (allows changes)
S3	Off*	Diskette write disabled (e.g. read only)
S4	Off*	Reserved – always Off
S5	On	Clear power-On and administrator password
	Off*	Allow power on and administrator password
S6	On	Flash ROM can be updated
	Off*	Prevents Flash ROM updates

## Deskpro/XL

### SW1

#### Pentium Based Systems

Switch	Position		Function
S1-2	<b>S1</b>	<b>S2</b>	<b>Processor</b>
	On	Off	Pentium/75 MHz, 50 MHz external, 75 internal
	Off	Off	Pentium/90 MHz, 60 MHz external, 90 internal
	On	On	Pentium/100 MHz, 50 MHz external, 100 internal
	Off	On	Reserved

#### 486 Based Systems

Switch	Position				Function
S1-2	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Processor</b>
	On	On	Off	Off	486DX2/50
	On	Off	Off	Off	486DX2/66
	On	Off	Off	Off	486DX4/100
	Off	Off	On	Off	Reserved

#### Jumpers

Jumper	Position	Function
E6	1-2	Password Enable
E5	1-2	Internal battery
	2-3	External battery

## Switches

Switch	Position	Function
S1	On	Flash ROM can be updated
	Off*	Prevents Flash ROM updates
S2	On	Locks EISA Configuration
	Off*	Allows changes to EISA
S3	Off*	Diskette write enabled (e.g. read/write)
S4	On	Override EISA config,diskette boot control
	Off*	Maintains EISA config,diskette boot control
S5	On	Clear power-On and administrator password
	Off*	Allow power on and administrator password
S6	On	Erases current EISA configuration
	Off*	Maintains current EISA configuration

## Portable 286

Jumper	Position	Function
ED	1-2	Mono
	2-3*	COMPAQ Colour, Dual Mode monitor or CGA
ES	1-2*	CPU boot 8 MHz
	2-3	CPU boot 6 MHz
If changed to 6 MHz, the system will not respond to speed change requests from the keyboard.		
EM	Reserved	
E1-3	1-2	128K, 256 K or 512K**
	2-3	640 Kbytes
** For 512 K, PAL (PN 105045-001) must be in U2 if not already present.		

## Diskette/Tape Controller Board

Version 1 contains jumpers J1, J2, J3, and J4. Version 2 contains Switch SW1 and shunt jumpers J1 and J2, which replace jumpers J1-J4.

Jumper	Position	Function
J1	1-2	Secondary address 370h
	2-3*	Primary address 3F0h
J2	1-2*	Serial port as COM1
	2-3	Serial port as COM2
See also J4		
J3	2-3*	Parallel port enabled
J4	1-2	Serial port IRQ4
	2-3	Serial port IRQ3
See also J2		

## Portable 386

Jumper	Position	Function			
E1,2	<b>E1</b>	<b>E2</b>	<b>Parallel interface</b> LPT1 LPT2 LPT3 Disable		
	2-3*	1-2*			
	2-3				
	1-2				
	2-3	2-3			
E3,4,8,9	<b>E3</b>	<b>E4</b>	<b>E8</b>	<b>E9</b>	Serial as COM1 (3FX, IRQ4), with modem or 2 <sup>nd</sup> as COM2 (2FX,IRQ3)
	2-3*	1-2*	1-2*	1-3*	
E3,4,8,9	<b>E3</b>	<b>E4</b>	3-4*	2-4*	Serial as COM2 (2FX, IRQ3), with modem or 1 <sup>st</sup> as COM1 (3FX,IRQ4)
			1-3	1-2	
			2-4	3-4	
E3,4,8,9	<b>E3</b>	<b>E4</b>	<b>E8</b>	<b>E9</b>	Serial as COM1 (3FX, IRQ4), with modem or 2 <sup>nd</sup> disabled.
	2-3	2-3	1-2	1-3	

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
			3-4	2-4	
E3,4,8,9	<b>E3</b> 1-2	<b>E4</b> 2-3	<b>E8</b> 1-2 3-4	<b>E9</b> 1-2 3-4	Serial as COM2 (2FX, IRQ3), with modem or 1 <sup>st</sup> disabled.
E3,4,8,9	<b>E3</b> 2-3	<b>E4</b> 2-3	<b>E8</b> 1-3 2-4	<b>E9</b> 1-2 3-4	Modem or 2 <sup>nd</sup> serial as COM1 (3FX,IRQ4), COM2 disabled
E3,4,8,9	<b>E3</b> 1-2	<b>E4</b> 2-3	<b>E8</b> 1-3 2-4	<b>E9</b> 1-3 2-4	Modem or 2 <sup>nd</sup> as COM2 (2FX,IRQ3), COM1 disabled
E3,4,8,9	<b>E3</b> 1-2	<b>E4</b> 1-2	<b>E8</b> 1-2 2-4	<b>E9</b> 1-3 2-4	Both serial disabled
E5	1-2*				Floppy enabled
E6	1-2 2-3*				Floppy secondary address Floppy primary address
E7	1-2 2-3				Primary IRQ 7 Alternative IRQ5
E12	1-2				Reserved
E13,14	<b>E13</b> 1-2* 2-3 2-3	<b>E14</b> 1-2*			<b>Base Memory</b> 640K 512K 256K
E15-17	<b>E15</b> 1-2* 2-3 1-2 2-3 1-2 2-3	<b>E16</b> 1-2* 1-2 2-3 2-3 2-3	<b>E17</b> 1-2* 1-2 1-2 1-2 2-3 2-3		<b>Total 32-bit memory</b> 1 Mb 2 Mb 3 Mb 4 Mb 6 Mb 10 Mb
E18	2-3				Reserved
E19	1-2				Reserved
E20	2-3* 1-2				387 not installed or 3167 387 installed
E21	1-2* 2-3				CPU boot speed 20 MHz, 8 accessing floppy CPU boot speed always 20 MHz
E22	2-3				Reserved
E23	1-2* 2-3				Plasma display in CGA mode Plasma display in Mono mode
E24	1-2				Reserved
E25	1-2				Reserved

## Portable 486c

### Switches

<i>Switch</i>	<i>Position</i>	<i>Function</i>
SW1	Off*	Enable video
SW2	On	Locks EISA Configuration
	Off*	Allows changes to EISA
SW3	Off*	Diskette write enabled (e.g. read/write)
SW4	On	Override EISA config,diskette boot control
	Off*	Maintains EISA config,diskette boot control
SW5	On	Clear power-On and administrator password
	Off*	Allow power on and administrator password
S6	On	Erases CMOS
	Off*	Normal ops

## Jumpers

Jumper	Position		Function
ED	1-2		3 <sup>rd</sup> party Mono
	2-3*		COMPAQ Colour, Dual Mode monitor or CGA
ES	1-2*		CPU boot 8 MHz
	2-3		CPU boot 6 MHz
			If changed to 6 MHz, the system will not respond to speed change requests from the keyboard.
EM			Reserved
MS1,2	MS1	MS2	System board memory
	G	G	Disable
	V	G	256K
	G	V	512K
	V	V	640K
MS3	V		1 Mb memory
	G*		1.5 Mb memory

## Portable III

## Jumpers

Jumper	Position		Function
E1	1-2		CPU speed 12 MHz during floppy access
	2-3*		CPU speed 8 MHz during floppy access
E2			Reserved
E3,4	E3	E4	<b>Serial Port</b>
			1-2*
	1-1	1-2*	Enable modem COM2
	2-2	2-2	Enable modem COM1
	2-2	2-2	Enable COM2
E5	1-2		Serial IRQ3 Select COM2
E16	1-2		Modem IRQ4 Select COM1
E5,16	1-1*		Modem IRQ3 Select COM2
E5,16	2-2*		Serial IRQ4 Select COM1
E7	2-3*		Enable printer
E8	1-2,4-5*		FD primary address
	2-3,5-6		FD secondary address
E10	1-2*		16K ROM
	2-3		32K ROM
E12	2-3*		Disable ROM set 2
E17	2-3,4-5*		No expansion RAM
	2-3,5-6		Address Bank 1 (J201 and J202)
	1-2,4-5		Address Banks 1-2 (J201 - J204)
	1-2,5-6		Address Banks 1, 2 & 3 (J201 - J206)

## Switches

Switch	Position		Function
1,2	<b>1</b>	<b>2</b>	<b>Base Memory</b>
	On	On	None (and no ROM)
	On	Off	0-256K
	Off	On	0-512K
	Off*	Off*	0-640K
S3,4	<b>3</b>	<b>4</b>	<b>Extended Memory</b>
	On	On	Reserved
	On*	Off*	640K plus 256 K modules
	Off	On	640K plus 1 Mb modules
	Off	Off	Reserved
S5	On*		Enable HD
S6	On		8 MHz CPU boot speed
	Off*		12 MHz CPU boot speed

Switch	Position	Function
S7	On*	Plasma display in colour mode
	Off	Plasma display in Mono mode
S8	Off*	Reserved

#### Plasma Display Controller Board

Jumper	Position	Function
	1-2	Primary address
	2-3	Secondary address

### Portable and Plus

Version 1

#### Bank 1

Switch	Position	Function	
1	Off*	Reserved - always Off	
2	On*	Copro – always On	
3,4	Off*	Memory - always Off	
5,6	5 Off	6 Off	Mono
	5 On	6 Off	Compaq video*
7,8	<b>7</b>	<b>8</b>	<b>Floppies</b>
	On	On	1 floppy
	Off	On	2 floppies
	On	Off	3 floppies
	Off	Off	4 floppies

#### Bank 2

Switch	Position	Function							
S1-8	<b>Memory</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
	128	On	Off	On	On	Off	Off	Off	Off
	192	On	On	Off	On	Off	Off	Off	Off
	256	On	Off	Off	On	Off	Off	Off	Off
	320	On	On	On	Off	Off	Off	Off	Off
	384	On	Off	On	Off	Off	Off	Off	Off
	448	On	On	Off	Off	Off	Off	Off	Off
	512	On	Off	Off	Off	Off	Off	Off	Off
	544	On	Off	Off	Off	Off	Off	Off	Off
		Off	Off	Off	Off	Off	Off	Off	Off

If ROMs in U40 (and U47) are Rev C or above, SW2 is ignored. It has been removed on Revision J or above. If Revision C ROMs or above are installed, 256K x 1 RAM chips may be used instead of 64K x 1 bit RAM chips in banks 2 and 3, but a new decoder PROM must be in socket U35.

#### Version 2

Because all Version 2 boards contain Revision C or higher ROMs, only one switch, SW1, is installed.

#### Bank 1

Switch	Position	Function	
1	Off*	Reserved – always Off	
2	Off	8 MHz Maths copro installed	
3,4	On*	Reserved – always On	
5,6	<b>5</b>	<b>6</b>	<b>Video adapter</b>
	Off	Off	Mono
	Off	On	CGA 40 x 25
	On	Off	CGA 80 x 25
	On	On	With own BIOS
7	On		1 floppy
	Off		2 floppies
8	On*		Reserved – always On

**Bank 2**

Switch	Position	Function							
S1-8	<b>Memory</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
	64	1	1	1	1	0	0	0	0
	128	1	0	1	1	0	0	0	0
	192	1	1	0	1	0	0	0	0
	256	1	0	0	1	0	0	0	0
	320	1	1	1	0	0	0	0	0
	384	1	0	1	0	0	0	0	0
	448	1	1	0	0	0	0	0	0
	512	1	0	0	0	0	0	0	0
	544-640	0	0	0	0	0	0	0	0

Version 2 contains a shunt jumper for selecting either Banks 2 and 3 or Alternate Banks 2 and 3. To enable Banks 2 and 3, insert the shunt jumper so that pins 5-12, 6-11, 7-10, and 8-9 are connected. To enable Alternate Banks 2 and 3, try 1-16, 2-15, 3-14, and 4-13.

**Asynchronous Board**

Jumper	Position	Function
J702	1-2	COM2 Address
	2-3	COM1 Address
J703	1-2	IRQ3
	2-3*	IRQ4
U13	5-12,6-11,7-10,8-9	RS-232-C
	1-16,2-15,3-14,4-13	20 mA current loop

**Presario 400**

Jumper	Position	Function		
P1	1-2	25 MHz (50)		
	2-3*	33 MHz (66)		
P2	1-2	PQFP (Socket Not Used)		
	2-3	PGA (Socket Used)		
P3-5	<b>P3</b>	<b>P4</b>	<b>P5</b>	<b>Processor select</b>
	1-2	1-2	1-2	486SX (PQFP), 486DX, 486DX2
	1-2	1-2	2-3	487SX (Overdrive)
	2-3	2-3	3-4	486SX (PGA)
P6				Password erase (remove & replace)
P7	1-2			Internal modem ROM
	2-3			External modem ROM

**Presario 500**

Jumper	Position	Function	
P1,2	<b>P1</b>	<b>P2</b>	<b>Processor</b>
	2-3		486DX33
	1-3		486SX2/50
	1-3		Overdrive 50
	2-3		486DX2/50
	1-3		486SX2/66
	2-3		486DX2/66
	2-3	2-3	Overdrive 66
P5		CMOS and password protect (remove to clear, replace)	

**Presario 5500**

Jumper	Position	Function	
P1	1-2*	Secure CMOS	
	Open	Clear CMOS	
P2	A1	A2	CPU 1.5 x bus speed
	B1	B2	
	A2	A3	CPU 2 x bus speed
	B1	B2	



<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	A2	A3 CPU 2.5 x bus speed
	B2	B3
	A1	A2 CPU 3 x bus speed
	B2	B3
P3	2	50 MHz bus speed
	3	40 MHz bus speed
	4	60 MHz bus speed
	4	5 66 MHz bus speed

### Presario 600

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
P5,6	1-2 both	Enable Onboard video
P7	1-2	Nonsocketed enable
	2-3	Nonsocketed disable
	None	Socketed
P8	1-2	33 MHz CPU bus
	2-3	25 MHz CPU bus
P9	1-2	486DX2, 486SX (nonsocketed), 487SX/OD
	2-3	486SX (socketed)
P10	1-2	486SX
	2-3	486DX2, 487SX/OD
P11	1-2	486DX/DX2
	2-3	487SX/OD
	3-4	486SX
P13	1-2	Config registers super/IO chip 26Eh/26Fh
	None	Config registers super/IO chip 398h/399h
P14		Clear CMOS

### Presario 800

<i>CPU</i>	<i>P1</i>	<i>P3</i>	<i>P4</i>	<i>P6</i>	<i>P7</i>
486SX/25	1-2	1-2	3-4	1-2	1-2
486SX/33	1-2	1-2	3-4	1-2	2-3
487SX/25	1-2	1-2	3-4	1-2	1-2
486DX/25	2-3	2-3	1-2	1-2	1-2
486DX/33	2-3	2-3	1-2	1-2	2-3
486DX2/50	2-3	2-3	1-2	1-2	1-2
486DX2/66	2-3	2-3	1-2	1-2	2-3
ODP	2-3	2-3	2-3	1-2	*
ODPR	2-3	2-3	1-2	1-2	*
Pentium ODP	2-3	2-3	2-3	2-3	*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
P1	2-3*	CPU in writeback mode
	1-2	CPU in writethrough mode
P8	1-2*	Printer on IRQ7
	2-3	Printer on IRQ5
P5	1-2	Disable video
	2-3*	Enable video
P9		Clear CMOS

### Presario 700

486 based

CPU	P1	P3	P4
486DX-33	2-3	1-2	3-4
486SX2/50	1-2	1-2	3-4
Overdrive 50	1-2	1-2	3-4
486DX2/50	1-2	1-2	3-4
486SX2/66	2-3	1-2	3-4
486DX2/66	2-3	1-2	3-4
Overdrive 66	2-3	1-2	3-4
DX4/100	2-3	1-2	3-4

Jumper	Position	Function
P1	1-2	CPU 25 MHz (50)
	2-3*	CPU 33 MHz (66)
P3	1-2*	Writethrough L1 cache (All486/7)
	2-3	Writeback L1 cache (Overdrive)
P4	1-2	DX4 2.5 x clock speed
	2-3	DX4 2 x clock speed
	3-4*	DX4 3 x clock speed
P5		Clear CMOS

Pentium Based

Jumper	Position	Function
P3	1-2	Enable password
	2-3	Disable password
P5	1-2	60 MHz
	2-3	50 MHz
P11	1-2	CPU core 1.5 x bus speed
	2-3	CPU core 2 x bus speed

Presario 7100

486 Based

Jumper	AMD DX2/80	AMD DX2/80+	AMD DX4/100	AMD DX4/100+	Cyrix DX2-V80	Pent Odrive
JC1	Open	2-3	Open	2-3	1-2	Open
JC2	Open	2-3	Open	2-3	1-2	2-3
JC3	Open	2-3	Open	2-3	1-2	Open
JC4	Open	2-3	Open	2-3	1-2	2-3
JC5	Open	2-3	Open	2-3	1-2	Open
JC6	Open	2-3	Open	2-3	1-2	Open
JC7	Open	2-3	Open	2-3	1-2	2-3
JC8	Open	2-3	Open	Open	Open	Open
JC9	2-3	1-2	2-3	1-2	1-2	1-2
JC10	1-2	2-3	Open	2-3	Open	Open
JC11	2-3	2-3	2-3	2-3	2-3	1-2
JP16	3-4	3-4	3-4	3-4	1-2	5-6,7-8,9-10
JP26	Open	Open	1-2	1-2	Open	1-2

PentiumBased

Jumper	Position	Function
JP4	Open*	Enable ES1688 (sound)
	Close	Disable
JP7	1-2	CPU Core/Bus 75/50 MHz
	3-4	CPU Core/Bus 90/60 MHz
	1-2,5-6	CPU Core/Bus 100/66.6 MHz
JP201	1-2	Discharge CMOS
	2-3*	Normal ops

## Presario 900

486 based

As for Presario 700

Pentium based

As for Presario 700

## Presario 9500

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
P1	Open	Discharge CMOS
P2	A1-A2	CPU 1.5 x
	B1-B2	
	A2-A3	CPU 2 x
	B1-B2	
	A2-A3	CPU 2.5 x
	B2-B3	
	A1-A2	CPU 3 x
B2-B3		
P3	1-2	CPU External Bus 50 MHz
	2-3	CPU External Bus 40 MHz
	2-4	CPU External Bus 60 MHz
	4-5	CPU External Bus 66 MHz

## ProLiant 1000

CPU	S1	S2	S3
486DX2/66	On	Off	On
Overdrive	Off	On	On

SW2

System Maintenance

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Enable Onboard video
S2	Off*	Enable changes in NVM
S3	Off*	Reserved – always Off
S4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
S5	On	Enable password set in configuration
	Off*	Disable
S6	On	Clear CMOS

## ProLiant 1500

SW1

System Maintenance

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	Off*	Enable Onboard video
2	Off*	Enable configuration in NVM
3	On	Rack mounted chassis Off= Tower chassis*
4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
5	On	Clear passwords
	Off*	Boot is password protected if one is set
6	On	Clear CMOS

*ProLiant 2000/4000*

Switch	Position	Function
S1	Off*	Enable Onboard video
S2	On Off	Extra 3rd and 4th processor, enable 2nd fan sensing. Up to 2 processors
S3	Off*	Reserved – always Off
S4	On Off*	Enable boot from floppy regardless of setup Floppy boot controlled by setup
S5	On Off*	Enable password set in configuration Disable
S6	On	Clear CMOS

*ProLiant 4500 Servers*

As for ProLiant 1500

*ProLinea*

*486 Based*

Jumper	Position	Function
E6	1-2	Enable password
E5	1-2 2-3	Internal battery External battery at P3

CPU	S1	S2	S3	S4
486DX2/50	On	On	Off	Off
486DX2/66	On	Off	Off	Off
486DX4/100	On	Off	Off	Off
Reserved	Off	Off	On	Off

*586 Based*

Jumper	Position	Function
E6	1-2	Enable password
E5	1-2 2-3	Internal battery External battery at P3

CPU	S1	S2
586/75 (50)	On	Off
586/90 (60)	Off	Off
586/100 (50)	On	On

*Pentium Based*

Jumper	Position	Function
E6	1-2	Enable password
E5	1-2 2-3	Internal battery External battery at P3

CPU	S1	S2
Pentium/75 (50)	On	Off
Pentium/90 (60)	Off	Off
Pentium/100 (50)	On	On
Reserved	Off	On

## Prosignia

### SW1

CPU	S1	S2	S3
486-33 or DX2/66	On	Off	On
Overdrive	Off	On	On

### SW2

#### System Maintenance

Switch	Position	Function
S1	Off*	Enable Onboard video
S2	Off*	Enable changes in NVM
S3	Off*	Reserved – always Off
S4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
S5	On	Enable password set in configuration
	Off*	Disable
S6	On	Clear CMOS

## ProSignia 300 Servers

Switch	Position	Function
1	Off*	Enable Onboard video
2	Off*	Enable configuration in NVM
3	On	Rack mounted chassis
	Off*	Tower chassis
4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
5	On	Clear passwords
	Off*	Boot is password protected if one is set
6		Clear CMOS

## ProSignia VS Server

### SW1

CPU	S1	S2	S3
486SX/33	On	Off	On
486DX/33 or DX2/66	On	Off	On
Overdrive	Off	On	On

### SW2

#### System Maintenance

Switch	Position	Function
S1	Off*	Enable Onboard video
S2	Off*	Enable changes in NVM
S3	Off*	Reserved – always Off
S4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
S5	On	Enable password set in configuration
	Off*	Disable
S6	On	Clear CMOS

### 004506001, 004509001

Switch	Position	Function
1	Off*	Enable Onboard video

Switch	Position	Function
2	Off*	Enable configuration in NVM
3	On	Rack mounted chassis
	Off*	Tower chassis
4	On	Enable boot from floppy regardless of setup
	Off*	Floppy boot controlled by setup
5	On	Clear passwords
	Off*	Boot is password protected if one is set
6		Clear CMOS

486 based

Assy 003904001, 003907001

SW1

Assy 003910001, 003922001

CPU	S1	S2	S3	S4
486DX2/50	On	On	Off	Off
486DX2/66	On	Off	Off	Off
486DX4/100	On	Off	Off	Off
Reserved	Off	Off	On	Off

Jumper	Position	Function
E6	1-2	Enable password
E5	1-2	Internal battery
	2-3	External battery at P3

586 Based

With or without integrated graphics.

Assy 003768001, 003771001, 003774001

Jumper	Position	Function
E6	1-2	Enable password
E5	1-2	Internal battery
	2-3	External battery at P3

CPU	S1	S2
586/75 (50)	On	Off
586/90 (60)	Off	Off
586/100 (50)	On	On

SLT 286

Jumper	Position	Function
J1	1-2	8 MHz 80287
	2-3*	12 MHz 80c287

Jumpers E2, E3, and E4 are reserved. They must be installed for proper operation.

SLT 386s/20

Jumper	Position	Function
SW1-1	On*	Enable fail safe timer
SW1-2	On	Enable clear password
	Off*	Disable clear password

## Sytempro

Switch	Position	Function
E1	2-3*	Enable power on password
E2		Reserved
E3	1-2 2-3*	Bypass extended NVM on power up (maintenance) Read extended NVM on power up (standard)
E4	2-3*	Enable Onboard video

## Compower

See Procomp

## Computer Technology System

[www.acttcs.com.tw](http://www.acttcs.com.tw)

## Computrend

See Premio

## Concord OA

Now AVT Industrial. [www.concord.com.hk](http://www.concord.com.hk)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C	COA 530	4C	COA 507

## COA 507

Fugutech M 507 in disguise

## COA 530

Fugutech M 530 in disguise

## Core International

### Atomizer 386/33

Switch	Position	Function
S1	On*	Reserved
S2	Off*	80387 not installed
S3	Off*	Reserved
S4	Off*	EGA BIOS relocation disabled
S5	Off*	Reserved
S6	On* Off	Colour video Mono video
S7	On*	Cache activated
S8	On Off*	Bus speed 11 MHz Bus speed 8.25 MHz
W3	1-2	Reserved

Switch	Position	Function
W4,5,6	Out*	Reserved
W7	1-2	80387 in asynchronous mode
	2-3	80387 in synchronous mode
W8	1-2	80387 in asynchronous mode
	Out	80387 in synchronous mode
W10	Out	Reserved
W11	1-2	Cache enabled
W12	1-2	Direct mapped cache (see also W13)
	Out	2-way set associative cache
W13	1-2	Direct mapped cache (see also W12)
	2-3*	2-way set associative cache
W15		Turbo switch connector. Either connect turbo switch to W11, then turbo light to W25, to slow system board to non-cache speed, or connect turbo switch to On/Off jumper and light to W9.
W22	In	Cache video BIOS if not relocated
	Out*	Don't cache
W23	In	Cache video BIOS if not relocated
	Out*	Don't cache
W25		Cache turbo light

## Crusader

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	C586 IPC	AC	C586 HX
9C	586VX Rev B+	FC-00	C586 VX Rev C+
AC	C688 LX	HC	C586HX rev D+

### C586HX

Same as DFI G586IPC rev D+ or Global Impact C586HX

### C586VX

Same as DFI G586IPV

## CyberMax

Rebadges Biostar motherboards.

## Cycle Computer Corp

www.cyclecc.com



## Daewoo

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
H-00	CPC 4600		

### 486 (CPC 2700U?)

VL Bus, with UMC 82C491F chipset. 8 30-pin SIMM sockets & 2 PS/2 connectors. P/N 9916522801

Jumper	Position	Function				
JP1	1-2	CMOS clear				
	2-3	Normal				
	Off	External battery				
JP2	On	Colour display				
	Off	Mono display				
JP4-8	<b>JP5</b>	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>Cache Size</b>
	Off	1-2	Off	Off	On	64K
	2-3	2-3	Off	On	On	128K
	1-2	1-2	On	On	On	256K
JP9,11	<b>JP9</b>	<b>JP11</b>	<b>CPU</b>			
	1-2,3-4	1-2	486DX			
	2-3	Off	486SX			
	1-2,3-4	2-3	487SX			
JP10	On	CPU > 33 MHz				
	Off	CPU <= 33 MHz				
JP12	5-6	25 MHz				
	1-2,5-6	33 MHz				
	1-2,3-4	40 MHz				
	3-4	50 MHz				

## Darter

### DataExpert

www.dataexpert.com.tw

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	EXP 4044	BC	ExpertColor MLX 8440
1-00	EXP 4049	CC	EXP 8661
9C	EXP 8561	EC-00	ExpertColor TX430II
AC	MLX 8440-0A/0B		

#### ExpertColor TX 430II

Same as Global Circuit GCT 8ITB

## Datatech

www.dtk.com. See also Gemlight

## Dell

### 286-8/12

Switch	Position	Function		
SW1	On	Colour monitor primary		
	Off*	Mono monitor primary		
SW2	On	LED shows fast speed		
	Off*	LED shows power		
SW3	On*	256K ROM		
	Off	128K ROM		
SW4	On	Maintenance Mode		
	Off*	Operation mode		
SW5		Reserved		
SW6,7,8	<b>Base Memory</b>	<b>SW6</b>	<b>SW7</b>	<b>SW8</b>
	256K		On	On
	512K		On	Off
	640K		Off	On
	512K+512 ext	Off	Off	Off
640K+384 ext	On*	Off	Off	

### 200

Jumper	Position	Function	
J5	Out	Normal operations	
	In	Maintenance mode	
J13,14	<b>Maths Copro</b>	<b>J13</b>	<b>J14</b>
	80287/82C287	1-2	
	Debugger in slot	2-3	2-3
J15		Reserved	
J16			

## 210

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W1	1-2	VGA via feature connector
	2-3	On board VGA
W4	2-3	Enable floppy
W5	1-2	IDE drives that tristate IRQ14
	2-3	IDE drives that do not tristate IRQ14
W10	2-3	Enable IDE
W11	2-3	Enable VGA
WX1	1-2	Mono adapter
	2-3	Colour adapter
WX2	1-2	On board video drives IRQ9
	Off	Doesn't

## 212N

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J41	Out*	Normal use
	1-2	Maintenance – cycles POST
	2-3	EPROM programming
J44	In*	Enable password

## 220

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W1	1-2 In	Colour video
	1-2 Out	Mono
W2	Out	Disable gate to read status bits on parallel port
W3	1-2	Enable external oscillator input
W4	1-2*	Enable COM1 IRQ4
	3-4	Enable COM2 IRQ3
	5-6	Enable LPT2 IRQ5
	7-8	Enable LPT2 IRQ7
W5	1-2*	Enable HD
W6	1-2*	Enable floppy
W7	2-3	HD INT selected
W8	In*	IDE HD diagrams enabled
W9		Reset
W10,12,13	<b>Base Memory</b>	<b>W10</b> <b>W12</b> <b>W13</b>
	640K*	2-3
	256K	1-2        2-3        1-2
W11	1-2	Disable VGA
W15,16	1-2 both	8 MHz coprocessor
W14	1-2	512K ROM
	2-3	256K ROM
W17	Out*	Normal clock for 80287
	In	Clock divided by 2 for 80287

## 300

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J9		Reset
J10	In*	Colour video
	Out	Mono video
J11	In	Maintenance mode
	Out*	Operational mode

## 316

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMPHD	1-2	Reserved
JMPRDY		For some 3 <sup>rd</sup> party drives that require an extra signal on pins 21 or 27

## 316sx

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JM3	1-2 In	On board VGA drives IRQ9
	1-2 Out	On board VGA ignores IRQ9
JM4	1-2	Mono display
	2-3	Colour display
JM5	2-3*	Enable VGA
JM6	1-2	IDE pin 21//OCHRDY
	2-3	IDE pin 27//OCHRDY (should be out)
JM7	2-3*	Enable IDE
JM8	1-2	IDE tristate IRQ14
	2-3	IDE does not tristate IRQ14
JM9	2-3*	Enable floppy

## 320LX

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMPHD	1-2*	ESDI and most IDE drives
	2-3	IDE drives needing SLVACT asserted
JMPRDY	1-2	Pin 21//OCHRDY
	2-3	Pin 27//OCHRDY (should be out for Dell IDE drives)

## 325/333D

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
RSET	Out*	Reserved
MOCO	Out	VGA Mono on boot
	In*	VGA colour on boot
MNT	Out*	Reserved
EPWD	In*	Enable password
PIDE*1	Out	2 x HD – 2 <sup>nd</sup> is primary
	In*	1 x IDE – always primary
SIDE*1	Out*	Primary IDE on system board
	In	Primary IDE on expansion board
MSYC	Out*	Not using multisync
	In	Using multisync
VIRQ	Out*	Onboard VGA not using IRQ9
	In	Onboard VGA using IRQ9
NIDE*2	Out	Not using new IDE drives
	In*	New IDE drives (>Jan 89)
OIDE*2	Out	Not using old IDE drives
	In*	Old IDE drives (<Jan 89)
EVGA	In*	Enable VGA
AROM	Out*	Reserved
WSP1	Out*	Reserved

## 325/333P

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
WSP2	Out*	Reserved
MOCO	Out	Mono on boot
	In*	Colour on boot
MNT	Out*	Reserved for maintenance

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	In	Cycle POST on power up
EPWD	In*	Enable password
PIDE	In*	Always jumpered - IDE HD primary
SIDE	Out*	IDE on system board
	In	IDE on expansion board
MSYC	Out*	Not using multisync
	In	Using multisync
VIRQ	Out*	Video not using IRQ9
	In	Video using IRQ9
NIDE	Out	Old IDE drives that do not gate IRQs internally
	In*	Newer IDE drives with internal IRQ gating
OIDE	Out*	Should be closed for all Dell IDE drives Opposite of NIDE – open for all Dell IDE drives
EVGA	In*	Enable VGA
AROM	Out*	Reserved
WSP1	Out*	Reserved

### 386-16

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J10	In*	Colour video
	Out	Mono video
J11	In	Maintenance mode
	Out*	Normal ops

### 425E

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JM2	Out	Normal ops
	In	Reserved
JM4	1-2	Mono on boot
	2-3	Colour on boot
J20		Reset
J26A	Out	SIMM bank A=2Mb SIMM
	In	SIMM bank A=1Mb SIMM
J26B	Out	SIMM bank B=2Mb SIMM
	In	SIMM bank B=1Mb SIMM
J26C	Out	SIMM bank C=2Mb SIMM
	In	SIMM bank C=1Mb SIMM
J26D	Out	SIMM bank D=2Mb SIMM
	In	SIMM bank D=1Mb SIMM

### DFI

Diamond Flower International. [www.dfiusa.com](http://www.dfiusa.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	G586IPV rev B+	BC	G586IPC rev C+
9C-00	G586VPM vB/G586VPS Pro vB1+	FC	G586IPV rev C+
9C-00	586STC	GC	G586IPC rev D+/586IPV C+
AC	G586IPC rev B+/ITBD	HC	G586IPC rev D+
AC-00	G586VPM	LC	G586IP/W

### G586IPC

Same as Crusader C586HX rev D+ or Global Impact C586HX

### G586IPV B+

Same as Crusader C586VX rev B+

### G586IPV C+

Same as Crusader C586IPV rev C+

### P2XBL

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Average

Switch	Position				Function
SW1	1	2	3	4	Clock Multiplier
	Off	Off	On	On	3.5x
	On	On	Off	On	4x
	Off	On	Off	On	4.5x
	On	Off	Off	On	5x
	Off	Off	Off	On	5.5x
	On	On	On	Off	6x
	Off	On	On	Off	6.5x
	On	Off	On	Off	7x
	Off	Off	On	Off	7.5x
	On	On	Off	Off	8x
JP1	1-2				Disable wake-on-keyboard/mouse
	2-3				Enable
JP3	1-2				Auto FSB
	2-3				66 MHz
	Out				100 MHz
JP4	1-2				Normal
	2-3				Clear CMOS

### P5BV3+

Item	Description	Notes
Form Factor	AT	
CPU	K6, etc	Socket 7
Speeds (MHz)	550	
Chipset	Via MVP3	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 each shared 100 MHz
Memory (Mb)	512 Mb	3 DIMM sockets
Cache (K)	512	
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Average

## Diamond Flower International

See DFI

## Diamond Micronics

[www.diamondmm.com](http://www.diamondmm.com)

## Digicom

[www.digicomgroup.com](http://www.digicomgroup.com)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	P5-VP	9C-00	P54HP

## Digimate

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	T5DX-VPX1E-1	DC	T5DX-VPX2E

### *T5DX-VPX1E-1*

Same as Eagle VPX 200B and one Vtech.

### *T5DX-VPX2E*

Same as Vtech/PCPartner VIB804DSE

## Digital

[www.digital.com](http://www.digital.com)

## Domex

Formerly DTC. [www.domexusa.com](http://www.domexusa.com) [www.domex.com.tw](http://www.domex.com.tw)

## DTC

See Domex

## DTK

[www.dtk.com.tw](http://www.dtk.com.tw) See also Gemlight

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	GMB P55IPS/P57IPS	IC	PAM 0054I
AC	PAM 0055I	JC	PAM 541PS

*PAM 0054I-E1*

Same as Gemlight GMB P54PSI?

*QUIN-35*

Item	Description	Notes
CPU		
Speeds (MHz)		
Chipset	Sis 85C501, 85C502, and 85C503	Also Winbond W83769F, W83787F, and W83768F chips
BIOS	Award	
Bus	3 PCI/3 ISA	1 each shared. PCI 2.0-compliant
Memory (Mb)	Up to 128 MB of conventional DRAM	4 72-pin sockets
Cache (K)	Up to 1 MB of standard Cache (K)	
I/O	2 16550 serial, 1 EPP/ECP parallel, 1 game port, floppy, 2 EIDE	



## Eagle

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	VPX 200B		

### *VPX 200B*

Same as Digimate T5DX-VPX1E-1 or a Vtech.

## ECS

Elite Group. [www.ecs.com.tw](http://www.ecs.com.tw) [www.ecsusa.com](http://www.ecsusa.com)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	UM 8810P	AC	SI54P-AIO rev 1.0
1C-00	SI54P-AIO rev 1.0	AC-00	SI54P AIO
2C-00	SI54P-AIO	DC	SI55P AIO
9C	SI55P AIO	HC	TS54P-AIO
A	SI56P AVIO	NC	TR5510-AIO

### *AL 486(-I)*

Jumper	Position	Function
JP2	Open	Normal EPROM
	1-2	12v Flash ROM
	2-3	5v Flash ROM

Jumper	Position				Function
JP11,12 20,21	<b>JP11</b>	<b>JP12</b>	<b>JP20</b>	<b>JP21</b>	<b>CPU Speed</b>
	3-4,5-6	1-2	1-2	1-2	25 MHz
	1-2,3-4	1-2	1-2	1-2	33 MHz
	1-2,5-6	2-3	2-3	2-3	40 MHz
JP13-15	3-4,5-6	2-3	2-3	2-3	50 MHz
	JP13	JP14	JP15		CPU type for system controller
	Short	Open	Short		Cx486s (M6)
	Open	Open	Open		Intel 80486 & Am486
JP22	Short	Open	Open		Cx486DX/DX2 (M7)
	1-2				<=33 MHz VESA clock speed
JP23	2-3				> 33 MHz
	1-2				0 VESA wait state
JP39	2-3				1 VESA wait state
	1-2				Local ready select <=33 MHz
JP46,62	2-3				Local ready select >33 MHz
	<b>JP46</b>	<b>JP62</b>			<b>CPU voltage</b>
	1-2	Open			5v (from power supply)
	2-3	1-2 3.45v, 2-3 3.3v			3.45/3.3v onboard
	Open	Open			3.3v from special power supply

Cache Size	JP16	JP33	JP34	JP40	JP41
64K	Open	Open	Open	1-2	Open
128K	Short	Open	Short	2-3	Open
256K	Short	Open	Short	1-2	Short
512K	Short	Short	Short	1-2 (64Kx8) 2-3(128Kx8)	Short

CPU Type	JP25	JP31	JP32	JP35	JP36	JP37	JP38	JP45	JP48	JP49	JP52	JP60
486SX/SX2	Open	Open	Open	Open	-	Open	1-2	2-3	-	Open	2-3	2-3
486DX/DX2	Short*	Open	Open	Open	-	2-3	1-2	2-3	-	Open	1-2,3-4	2-3
487SX	Open	Open	Open	Open	-	1-2	1-2	2-3	-	Open	1-2,3-4	2-3
486DX/DX2 (SL)	Short	Open	1-2	1-2	-	2-3	1-2	2-3	-	Open	1-2,3-4	1-2
486SX/SX2(SL)	Short	Open	1-2	1-2	-	Open	1-2	2-3	-	Open	2-3	1-2
486DX4(SL)	Short	Open	1-2	1-2	-	2-3	1-2	1-2	Opn**	Open	1-2,3-4	1-2
Am486DXL/DXL2	Open	Open	5-6	5-6	-	2-3	1-2	2-3	-	1-2	1-2,3-4	2-3
Cx486S(M6)	Open	2-3	3-4	3-4	Open	Open	1-2	2-3	-	2-3	2-3	1-2
Cx486DX/DX2 M7	Open	2-3	3-4	3-4	Op***	2-3	1-2	2-3	-	2-3	1-2,3-4	1-2

\*DX50 only    \*\*3x CPU clock – Short for 2x clock    \*\*\*1x CPU clock – short for 2x

FA 386

Jumper	Position				Function
JP1,3	<b>JP1</b>	<b>JP3</b>			<b>Coprocessor</b>
	Open	Open			No 80387
	Closed	Closed			80387 installed
JP2	1-2				Mono display
	2-3				Colour
JP4-7	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>Cache setting</b>
	1-2	1-2	Open	Open	64K
	2-3	2-3	Closed	Closed	128K

## FA 486

Jumper	Position					Function			
JP2	1-2					Mono display			
	2-3					Colour			
JP3-4	JP3	JP4				<b>CPU Type</b>			
			1-2	1-2,3-4	80486DX (DX2)				
			Open	2-3	80486SX				
	2-3	1-2,3-4	80487SX (Overdrive)						
JP5-8	JP5	JP6	JP7	JP8	<b>Cache setting</b>				
					Open	2-3	1-2	Open	64K
					Open	1-2	2-3	Closed	128K
					Closed	2-3	2-3	Closed	256K

## FE 386

Jumper	Position	Function																
J3	1-2	Colour display																
	2-3	Mono																
JP2	Closed	80387 installed																
	Open	No 80387																
W2-9	<b>Cache size</b>	W2	W3	W4	W5	W6	W7	W8	W9									
										64K	Open	Open	Open	Open	1-2	Open	1-2	1-2
										128K	Open	Open	Close	Close	2-3	1-2	2-3	1-2
										256K	Close	Close	Close	Close	1-2	2-3	2-3	2-3

## MX 386

Jumper	Position	Function
JP1	1-2	Mono display
	2-3	Colour display
JP2	1-2	Coprocessor installed
	2-3	Not installed
JP3	1-2	A20MASK selector from keyboard (Cyrix)
	2-3	A20MASK selector from chipset (Cyrix)
JP4	1-2	KEN selector current version (Cyrix – v1.0)
	2-3	KEN selector next reversion ox MXC305 (Cyrix - v1.0)

## P5HX-A v1.0

Jumper	Position	Function			
JP1	1-2	3.3v (STD) I/O voltage			
	3-4	3.52v (VRE) I/O voltage			
JP2-5	1-2	P54C, 6x86			
	2-3	P55C			
JP7,8	JP7	JP8	<b>Clock Multiplier</b>		
			1-2	1-2	1.5x
			1-2	2-3	2x
			2-3	2-3	2.5x
			2-3	1-2	3x
			Open	2-3	Cyrix 2x
			Open	1-2	Cyrix 3x
JP9	1-2,3-4	50 MHz Host Clock			
	open	55 MHz Host Clock			
	3-4	60 MHz Host Clock			
	1-2	66 MHz Host Clock			
JP10	2-3	Flash ROM PnP (12v)			
	1-2	Flash ROM non-PnP (5v)			
JP11	1-2	Clear CMOS			

Jumper	Position	Function
	2-3	Normal operation
JP12	2-3	Flash ROM normal
	1-2	BIOS recover
JP15-16	<b>JP15</b>	<b>Cache size</b>
	Short	256K
	Open	512K (onboard)

#### Case Connections – J12

SMI switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### P5HX-A v1.1

Jumper	Position	Function
JP1	1-2	3.3v (STD) I/O voltage
	3-4	3.52v (VRE) I/O voltage
JP2-5	All 1-2	Single voltage CPU
	All 2-3	Dual voltage CPU
JP7,8	<b>JP7</b> <b>JP8</b>	<b>Clock Multiplier</b> JP7 open for Cyrix 6x86
	1-2    1-2	1.5x
	1-2    2-3	2x
	2-3    2-3	2.5x
	2-3    1-2	3x
JP9	1-2,3-4	50 MHz Host Clock
	open	55 MHz Host Clock
	3-4	60 MHz Host Clock
	1-2	66 MHz Host Clock
JP11	1-2	Clear CMOS
	2-3	Normal operation
JP15-16	JP15	Cache size
	Open	256K (module)
	Short	256K (onboard)
	Open	512K (module)
	Short	512K (256K onboard + 256K module)
	Open	512K (onboard)
JP17	1-2	2.5v CPU core voltage
	3-4	2.7v CPU core voltage
	5-6	2.8v CPU core voltage
	7-8	2.9v CPU core voltage
JP18	1-2	Password check disabled
	2-3	Enabled

#### P5HX-B

Item	Description	Notes
CPU	Pentium	Socket 7
Speeds (MHz)	166	
Chipset	Intel 430HX	
BIOS	Award Flash	
Bus	4 PCI/4 ISA	
Memory (Mb)	8-256	4 72-pin sockets – EDO/FPM
Cache (K)	512	
I/O	2S, 1P, floppy, IDE, USB, IR	

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JP2,3	<b>JP2</b>	<b>JP3</b>	<b>Clock Multiplier</b>
			1-2
	1-2	2-3	2x
	2-3	2-3	2.5x
	2-3	1-2	3x
JP2 open for Cyrix 6x86			
JP4	1-2,3-4		50 MHz Host Clock
	open		55 MHz Host Clock
	3-4		60 MHz Host Clock
	1-2		66 MHz Host Clock
JP5	1-2		Clear CMOS
	2-3		Normal operation
JP10	1-2		3.3v (STD) I/O voltage
	3-4		3.52v (VRE) I/O voltage
JP11-14	All 1-2		Single voltage CPU
	All 2-3		Dual voltage CPU
JP15-16	<b>JP15</b>	<b>JP16</b>	<b>Cache size</b>
			In
	Out	1-2	256K (module)
	In	3-4	512K (256K onboard + 256K (module)
	In	3-4	512K (onboard)
	Out	Out	Nil
JP17	1-2		2.51v CPU core voltage
	3-4		2.73v CPU core voltage
	5-6		2.91v CPU core voltage

#### Case Connections – J12

Turbo LED	2-3
SMI switch	4-5
Turbo Switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### P5SD-B

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Speeds (MHz)	75-500 MHz	
Chipset	SIS 5591/5595	
Bus	4 PCI/3 ISA	
Memory (Mb)	384 Mb SDRAM	2 DIMM sockets
Video		AGP
Performance		100 MHz bus speed with 5 x multiplier
Comments		Power for AT and ATX.

<i>Jumper</i>	<i>Position</i>			<i>Function</i>		
JP1,2,3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>Ext clk</b>	<b>AGP</b>	<b>PCI</b>
				2-3	2-3	2-3
	1-2	2-3	2-3	66.8	66.8	33.4
	2-3	2-3	1-2	68.5	68.5	34.3
	2-3	1-2	2-3	75	64	32
	1-2	2-3	1-2	75	75	37.5
	1-2	1-2	2-3	83.3	66.6	33.3

Jumper	Position			Function		
	2-3	1-2	1-2	90	60	30
	1-2	1-2	1-2	100	66.6	33.3
JP5	1-2			ATX power supply		
	2-3			AT power supply		
JP6	1-2			Normal		
	2-3*			Clear CMOS		
JP10-12	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>CPU clock multiply</b>		
	1-2	1-2		1.1/3.3x		
	2-3	1-2		2x		
	2-3	2-3		2.5x		
	1-2	2-3		3x		
	2-3	1-2	2-3	4x		
	2-3	2-3	2-3	4.5x		
	1-2	2-3	2-3	5x		
JP13	1-2			Reserved for 100 MHz		
	3-4			CPU I/O voltage VRE 3.5v		
	5-6*			CPU I/O voltage STD 3.3v		
JP14	1-2,3-4,7-8			1.8v CPU core voltage		
	1-2,3-4,5-6,7-8			2v CPU core voltage		
	7-8			2.2v CPU core voltage		
	5-6,9-10			2.5v CPU core voltage		
	3-4			2.8v CPU core voltage		
	3-4,9-10			2.9v CPU core voltage		
	3-4,7-8,9-10			3.1v CPU core voltage		
	3-4,5-6			3.2v CPU core voltage		
	3-4,5-6,9-10			3.3v CPU core voltage		
	3-4,5-6,7-8,9-10			3.5v CPU core voltage		

**P5SJ-B**

To enable VGA, set JP1-2 at 1-2, JP10 at 2-3. Reverse to disable.

**P5SD-B+**

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Speeds (MHz)	66-100	
Chipset	VT82C586B	
BIOS	Award	
Bus	4 PCI/2 ISA	
Memory (Mb)	512	
I/O	The usual	
Video	AGP	

**P5SJ-B**

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Speeds (MHz)	66-100	
Chipset	Sis 5598	
BIOS	Award	
Bus	3 PCI/3 ISA	
Memory (Mb)	512	
Cache (K)		
I/O	The usual	

### P5SS-Me (Sinbad)

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium	Socket 7
Speeds (MHz)		
Chipset	SiS 530/5595	66-100 MHz
Bus	3 PCI/1 ISA	
Memory (Mb)	1 Gb	3 DIMM sockets
Cache (K)	1 Mb	
Video	AGP	

### P5TX-Apro

Defaults to 3.3 volts. For dual voltage, set JP-04 to 3-4.

### P5TX-Bpro

#### Pentium

Jumper	Position	Function
JP1	11-13,19-21,20-22	50 Mhz External Clock Speed
	11-13,17-19,20-22	55 Mhz External Clock Speed
	9-11,19-21,20-22	60 Mhz External Clock Speed
	11-13,19-21,18-20	66 Mhz External Clock Speed
	9-11,17-19,18-20	68 Mhz External Clock Speed
	9-11,17-19,20-22	75 Mhz External Clock Speed
	11-13,17-19,18-20	83 Mhz External Clock Speed
JP1	1-3,2-4	1.5x & 3.5x clock multiplier
	1-3,4-6	2x clock multiplier
	3-5,4-6	2.5x clock multiplier
	3-5,2-4	3x clock multiplier
JP2	1-2*	Clear CMOS
	2-3	Normal operations
JP3	11-12	2.2v CPU core voltage
	9-10	2.8v CPU core voltage
	7-8	2.9v CPU core voltage
	3-4	3.2v CPU core voltage
	1-2	3.25v CPU core voltage

#### Case Connections – J22

Power-on LED	2-3
SMI switch	4-5
Reset switch	9-10
Keyboard lock	11-15
Speaker	17-20

### P5VP-A+

Item	Description	Notes
Form Factor	ATX	
CPU	K6 etc	Socket 7
Speeds (MHz)	450	
Chipset	Via MVP3	
BIOS	Award 4.51PG	
Bus	4 PCI/2 ISA	1 each shared 124 MHz
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Average

**P5VX-A**

Jumper	Position	Function	
JP3	Open	50 MHz CPU	
	1-2,3-4	55 MHz CPU	
	1-2	60 MHz CPU	
	3-4	66 MHz CPU	
JP8	1-2	12v Flash ROM	
	2-3	5v Flash ROM	
JP10	1-2	3.3v (STD) I/O voltage	
	3-4	3.52v (VRE) I/O voltage	
JP11,12	<b>JP11</b>	<b>JP12</b>	<b>Clock multiplier</b>
	1-2	1-2	1.5x
	1-2	2-3	2x
	2-3	2-3	2.5x
	2-3	1-2	3x
JP13	Open	Normal	
	Short	Clear CMOS	
JP15	1-2	Enable Super I/O	
	2-3	Disable	
JP16-18	1-2	P54C	
	2-3	P55C (Mount U10)	
JP20	1-2	2.5v CPU core voltage	
	3-4	2.8v CPU core voltage	
JP21	Open	Disable 3D sound	
	Short	Enable	

**Case Connections – J12**

Power On	1-2
SML switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

**P5VX-B**

Item	Description	Notes
CPU	Pentium	Socket 7
Speeds (MHz)	166	
Chipset	Intel 82437VX	
BIOS	Award Flash	
Bus	4 PCI/4 ISA	
Memory (Mb)	4-128	4 72-pin sockets - EDO/FPM. 1 DIMM
Cache (K)	0-512	
I/O	2S, 1P, floppy, IDE	

Jumper	Position	Function	
JP3	Open	50 MHz Host clock	
	1-2,3-4	55 MHz Host clock	
	1-2	60 MHz Host clock	
	3-4	66 MHz Host clock	
JP4	1-2	12v Flash ROM programming	
	2-3	5v Flash ROM programming	
JP8	Short	512K cache (256 onboard + module)	
JP10	1-2	3.3v (STD) CPU voltage	
	3-4	3.525v (VRE) CPU voltage	
JP11,12	<b>JP11</b>	<b>JP12</b>	<b>CPU clock multiplier</b>
	1-2	1-2	1.5x
	1-2	2-3	2x



<i>Jumper</i>	<i>Position</i>		<i>Function</i>
	2-3	2-3	2.5x
	2-3	1-2	3x
JP13	Open		Normal operations
	Short		Clear CMOS
JP15-16	<b>JP15</b>	<b>JP16</b>	<b>CPU Type</b>
	1-2	1-2	Intel P54C, CT, CTB, Cyrix M1
	2-3	2-3	P55C (needs VR at U30)
JP17	1-2		2.5v P55C core voltage
	3-4		2.8v P55C core voltage

#### Case Connections - J12

Turbo LED	2-3
SMI switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### P5VX-Be

Item	Description	Notes
CPU	Pentium	Socket 7
Speeds (MHz)	200	
Chipset	Intel 430VX	
BIOS	Award Flash	
Bus	4 PCI/3 ISA	
Memory (Mb)	4-128	4 72-pin sockets - EDO/FPM. 1 DIMM
Cache (K)		May hang if set to write-back
I/O	2S, 1P, floppy, IDE, NCR SCSI, USB, IR	SMC 37C665 I/O controller - check for GT at end of model no, to fix crashes using comms programs. SCSI controller may need IRQ 15.

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
JP1	In		Disable password check
	Out		Normal operation
JP2	1-2,3-4,5-6		50 MHz Host Clock
	1-2,3-4		55 MHz Host Clock
	3-4,5-6		60 MHz Host Clock
	1-2,5-6		66 MHz Host Clock
JP4	In		Clear CMOS
	Out		Normal operation
JP5	1-2		3.3v CPU I/O voltage
	3-4		3.525v CPU I/O voltage
JP6	1-2		Split Rail CPU
	2-3		Single voltage CPU
JP7	1-2		2.5v CPU core voltage
	3-4		2.8v CPU core voltage
	5-6		2.9v CPU core voltage
JP11,12	<b>JP11</b>	<b>JP12</b>	<b>Clock Multiplier</b>
	1-2	1-2	1.5x
	2-3	1-2	2x
	2-3	2-3	2.5x
	1-2	2-3	3x

#### Case Connections - J20

Turbo LED	2-3
SMI switch	4-5
Reset switch	9-10
Power LED	11-13

Keyboard lock	14-15
Speaker	17-20

**P6BAT-A+**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/III/Celeron	Socket 370 & Slot 1
Chipset	VIA	
BIOS	Award Flash	
Bus	4 PCI/2 ISA	
Memory (Mb)	768	3 DIMM sockets
I/O	2S, 1P, floppy, IDE, NCR SCSI, USB, IR	
Audio	Yamaha	

Jumper	Position	Function
JP1	1-2	Normal
	2-3	Clear CMOS
JP2	1-2	Disable Keyboard Power On
	2-3	Enable
JP4	1-2	Normal bus frequency
	2-3	Force 100 MHz
JP7	1-2	Enable Flash BIOS
	2-3	Disable
JP9	1-2	66/100 MHz
	2-3	Force 133 MHz

**P6BTM**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PGMA	
Bus	3 PCI/2 ISA	66-100 MHz
Memory (Mb)	1024 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

**P6BX-A+**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PGMA	
Bus	5 PCI/2 ISA	1 each shared
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Relatively poor

**P6BX-Me**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PGMA	
Bus	2 PCI/2 ISA	66-100 MHz
Memory (Mb)	384 Mb	

Item	Description	Notes
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		

### *P6BX-MS*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PGMA	
Bus	3 PCI/1 ISA	66-100 MHz
Memory (Mb)	768 Mb	
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		Yes, + sound

### *P6SBXT (Libra)*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440 BX	
BIOS	Award	
Bus	4 PCI/2 ISA	66-100 MHz
Memory (Mb)	768 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

### *P6EX-A+*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440 EX	
BIOS	Award 4.51PGMA	
Bus	4 PCI/3 ISA	66-133 MHz
Memory (Mb)	256 Mb	
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video	AGP	

### *P6EXP-Me (Robin)*

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Chipset	440 EX	
BIOS	Award	
Bus	3 PCI/1 ISA	66-133 MHz
Memory (Mb)	256 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

### *P6FX1-A*

Jumper	Position	Function
JP4	1-2	5v Flash BIOS
	2-3	12v Flash BIOS

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J13	3-4,5-6	60 MHz Host Clock
	1-2,7-8	66 MHz Host Clock
J13	9-10,11-12,13-14,15-16	Host Clock x2
	11-12,13-14,15-16	Host Clock x2.5
	9-10,13-14,15-16	Host Clock x3
	13-14,15-16	Host Clock x3.5
	9-10,11-12	Host Clock x4

### P6FX1-B

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP3	Short	Clear CMOS
JP4	1-2	Clear password
	2-3	Normal
J13	3-4,5-6	60 MHz Host Clock
	1-2,7-8	66 MHz Host Clock
J13	9-10,11-12,13-14,15-16	Host Clock x2
	11-12,13-14,15-16	Host Clock x2.5
	9-10,13-14,15-16	Host Clock x3
	13-14,15-16	Host Clock x3.5
	9-10,11-12,15-16	Host Clock x4
J13	17-18, 19-20, 21-22,23-24	Open for CPU with VID enabled. Otherwise see table

J13	VID 0 17-18	VID 1 19-20	VID 2 21-22	VID 3 23-24
VID Enable	open	open	open	open
2.1	short	open	open	open
2.2	open	short	open	open
2.3	short	short	open	open
2.4	open	open	short	open
2.5	short	open	short	open
2.6	open	short	short	open
2.7	short	short	short	open
2.8	open	open	open	short
2.9	short	open	open	short
3.0	open	short	open	short
3.1	short	short	open	short
3.2	open	open	short	short
3.3	short	open	short	short
3.4	open	short	short	short
3.5	short	short	short	short

### Case Connections

SMI switch	4-5
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

### P6FX2

#### Dual Pentium Pro

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2	1-2	Clear CMOS
JP4	1-2,3-4	50 MHz host frequency
	1-2	66 MHz host frequency
	2-3	60 MHz host frequency
	None	55 MHz host frequency
JP8	1-2,3-4,5-6,7-8	2x CPU

<i>Jumpers</i>	<i>Position</i>	<i>Function</i>
	3-4,5-6,7-8	2.5x CPU
	1-2,5-6,7-8	3x CPU
	5-6,7-8	3.5x CPU
	1-2,3-4,7-8	4x CPU
J13	1-2	Clear password

#### Case Connections – J8

Power LED	2-3
SMI switch	4-5
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### P6LX-A+

Keyboard on-now feature turned off by disabling JP1.

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440 LX	
BIOS	Award 4.51PGMA	
Bus	4 PCI/3 ISA	66-100 MHz
Memory (Mb)	1024 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

#### P6SBU

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440 BX	
BIOS	AMI	
Bus	3 PCI/2 ISA	66-100 MHz
Memory (Mb)	1024 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

#### P6SEP-Me (Eagle)

Item	Description	Notes
Form Factor	Micro ATX	
CPU		Socket 370
Chipset	SiS 620/5595	
BIOS	Award	
Bus	3 PCI/1 ISA	66-133 MHz
Memory (Mb)	3844 Mb	
I/O	2 EIDE, floppy, USB	
Video	AGP	

#### SA486P AIO-U

Item	Description	Notes
Chipset	Saturn	
Cache (K)		May hang if set to write-back
I/O	IDE, NCR SCSI	SMC 37C665 I/O controller - check for GT at end of model no, to fix crashes using comms programs. SCSI controller may need IRQ 15.

**SC58P VIO/S**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J9	1-2	Normal
	2-3	Clear CMOS
JP3	Short	Enable
	Open	Disable
JP11	1-2	BIOS program 12v
	2-3	BIOS Not Program Mode (5v)
JP13	1-2	256K cache
	2-3	512K cache
JP14	1-2	50 MHz host clock
	3-4	60 MHz host clock
	1-2,3-4	66 MHz host clock
JP17	Open	CPU 1.5x
	1-2	CPU 2x
	1-2,3-4	CPU 2.5x
	3-4	CPU 3x
JP19	1-2	3.3v CPU
	3-4	3.525v CPU (VRE)
JP21	1-2	Normal floppy
	2-3	Write protect
JP22	1-2	CPU non-linear mode (Intel)
	2-3	CPU linear mode (Cyrix)

**SI54P AIO**

Pentium.

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP1-2	<b>JP1</b>	<b>JP2</b>	
	1-2	2-3	<b>ECP Mode</b>
	2-3	1-2	Parallel Port DRQ1 DACK1 Parallel Port DRQ3 DACK3
JP3	1-2	Enable onboard I/O	
	2-3	Disable	
JP4	Open	Enable onboard PCI IDE	
	Short	Disable	
JP5	1-2,3-4	Double density memory (or 1&2 single)	
	2-3	All single density memory	
JP7	2-3,5-6,7-8	50 MHz host clock speed (1.5x CPU)	
	2-3,4-5,8-9	60 MHz host clock speed (1.5x CPU)	
	1-2,5-6,7-8	66 MHz host clock speed (1.5x CPU)	
JP8	Open	System ROM is EPROM or Normal use	
	1-2	System ROM is 5v Flash ROM	
	2-3	System ROM is 12v Flash ROM	
JP9	Short	Enable DRAM parity check	
	Open	Disable	
JP10,11	<b>JP10</b>	<b>JP11</b>	
	Open	Open	<b>L2 cache</b>
	Open	Short	256K (32Kx8)
	Short	Short	512K (64Kx8)
JP12	1-2	1 Mb (128Kx8)	
	2-3	L1 cache write-back	
JP14	1-2	L1 cache write-through	
	2-3	CPU Signal Select always invalidated	
JP14	1-2	CPU Signal Select always invalidated	
	2-3	CPU Signal Select write to invalidated	

**Case Connections – J13**

Turbo LED	2-3
SML switch	4-5
Turbo switch	6-7
Reset switch	9-10

Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

### SI5PI AIO

Pentium. Rev 1.0 has parity checking always enabled. Rev 1.0a has parity checking always disabled, so can use parity or non-parity DRAM. Rev 1.1 uses JP22 to set parity checking.

Jumper	Position	Function			
JP1	1-2	Enable onboard multi I/O			
	2-3	Disable			
JP2	Open	Enable IDE			
	Short	Disable IDE			
JP4	1-2,3,4	Double density memory used			
	2-3	Single density memory only			
JP5-7	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>CPU Clock</b>	
	1-2	2-3	1-2	60 MHz	
	2-3	1-2	2-3	66 MHz	
JP8	Open	Normal LPT mode			
	Short	ECP mode			
JP9-10	<b>JP9</b>	<b>JP10</b>	<b>Parallel Port ECP PRQ &amp; DACK</b>		
	2-3	1-2	DRQ1, DACK1		
	1-2	2-3	DRQ3, DACK3*		
JP11	1-2,5-6	12v Flash ROM			
	2-3,4-5	EPROM			
JP13-16	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>L2 cache setting</b>
	Open	Open	Open	1-2,3-4	256K (32Kx8 in Bank 0)
	Open	Short	Open	2-3,4-5	512K (32Kx8 in Bank 0&1)
	Open	Short	1-2	1-2,3-4	512K (64Kx8 in Bank 0)
	Short	Short	2-3	2-3,4-5	1 Mb (64Kx8 in Bank 0&1)
	Short	Short	1-2,3-4	1-2,3-4	1 Mb (128Kx8 in Bank 0)
JP19	1-2	L1 writeback			
	2-3	L1 writethrough			
JP20	1-2	CPU Signal Select always invalidated			
	2-3	CPU Signal Select write to invalidated			
JP21	1-2	LPT IRQ7			
	2-3	LPT IRQ5			
JP22	1-2	Enable parity check (v1.1 only)			
	2-3	Disable			

### SI55P AIO

#### P54C

Jumper	Position	Function		
JP1	Open	Enable onboard multi I/O		
	Short	Disable		
JP2	5-6,7-8	IR normal COM2/4		
	Open	IR front connector		
JP3	1-2	5v EPROM		
	2-3	12v Flash ROM		
JP4,6	<b>JP4</b>	<b>JP6</b>	<b>Parallel Port ECP PRQ &amp; DACK</b>	
	1-2	1-2	DRQ1, DACK1	
	2-3	2-3	DRQ3, DACK3	
JP5-7	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>CPU Clock</b>
	1-2	2-3	1-2	60 MHz
	2-3	1-2	2-3	66 MHz
JP8	Enable	Enable DRAM parity check		

Jumper	Position			Function
JP14-16	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>SRAM</b>
	2-3	2-3	2-3	3.3v
	1-2	1-2	1-2	3.3/5v mixed
JP17	1-2			3.3v CPU voltage (STD)
	3-4			3.385v CPU voltage (VR)
	5-6			3.525v CPU voltage (VRE)
JP18-19	<b>JP18</b>	<b>JP19</b>		<b>L2 cache size</b>
	2-3	2-3		256K (32Kx8)
	2-3	1-2		512K (64Kx8)
	1-2	1-2		1 Mb (128Kx8)
J15	6-7,21-22			Always set
JP21-22	<b>JP21</b>	<b>JP22</b>		<b>CPU clock multiplier</b>
	Open	Open		1.5x
	Open	Short		2x
	Short	Short		2.5x
	Short	Open		3x
JP25-26	JP25	JP26		Host clock speed
	Short	Open		50 MHz
	Open	Short		60 MHz
	Short	Short		66 MHz

#### Case Connections – J12

SML switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### SI56P AVIO

Jumper	Position		Function
JP1,2	<b>JP1</b>	<b>JP2</b>	<b>Mixed/Pure cache</b>
	1-2	1-2	Pure
	2-3	2-3	Mixed
JP6,7	<b>JP6</b>	<b>JP7</b>	<b>Cache size</b>
	1-2	1-2	256K
	2-3	1-2	512K
	2-3	2-3	1 Mb
JP11	Open		Enable super I/O
	Short		Disable
JP12,13	<b>JP12</b>	<b>JP13</b>	<b>ECP Mode</b>
	1-2	1-2	DRQ1/DACK1
	2-3	2-3	DRQ3/DACK3
JP15	1-2		50 MHz host clock
	3-4		60 MHz host clock
	1-2,3-4		66 MHz host clock
JP16	1-2		3.3v CPU voltage (STD)
	3-4		3.385v CPU voltage (VR)
	5-6		3.525v CPU voltage (VRE)
JP22,24	<b>JP22</b>	<b>JP24</b>	<b>Clock multiplier</b>
	Open	Open	1.5x
	Open	Short	2x
	Short	Short	2.5x
	Short	Open	3x
JP25	1-2		5v Flash voltage
	2-3		12v Flash voltage
JP26	Short		Clear CMOS
	Open		Normal
JP27	Short		Enable onboard VGA
	Open		Disable



## Case Connections – J16

Turbo LED	2-3
SMI switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

## SL 486E

## EISA 486

Jumper	Position	Function		
JP1,2	<b>JP1</b>	<b>JP2</b>	<b>ALT Bit selection</b>	
	1-2	1-2	64K	
	1-2	2-3	128K	
	2-3	2-3	256K	
JP3,4	<b>JP3</b>	<b>JP4</b>	<b>Cache size</b>	
	1-2	1-2	64K	
	2-3	1-2	128K	
	2-3	2-3	256K	
JP5	1-2	8Kx8 SRAM		
	2-3	32Kx8 SRAM		
JP6	1-2	One bank SRAM		
	3-4	2 banks 8Kx8 SRAM		
	5-6	2 banks 32Kx8 SRAM		
JP7	1-2	CPU <50 MHz		
	2-3	CPU 50 MHz		
JP8-10	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>CPU type</b>
	2-3	2-3	1-2	486DX
	1-2	1-2	1-2	486SX
	2-3	2-3	1-2	487SX
JP11	1-2	Bus cycle pending, 85C406 system arbitration logic bypasses CPU		
	2-3	System arbitration logic in 85C406 includes CPU		
JP12	Closed	Local bus memory slaves can receive burst cycles		
	Open	Non-burst mode		
JP13	1-2*	Refresh signal selection		
JP14	Close	Mono display		
	Open	Colour display		
JP20	1-2 open	Turbo		
	1-2 closed	Normal speed		

## TR 5510 AIO

Item	Description	Notes
Form Factor	Baby AT	4 layer
CPU	Pentium P54C(T)(B)	
Speeds (MHz)	75-166	
Chipset	Intel 430FX or UMC	
BIOS	Award Flash	
Bus	4 PCI/3 ISA	
Memory (Mb)	4-128	FPM/EDO. 4 72-pin SIMM.
Cache (K)	512	256 standard
I/O	2S, 1P, floppy, 2 EIDE	

Jumper	Position	Function
JP1	1-2*	Enable Onboard I/O
JP2	Open*	Normal CMOS

Jumper	Position	Function		
	Short	Clear CMOS		
JP3	1-2 2-3	System clock PCI clock/3 System clock PCI clock/4*		
J4	Open 1-2 3-4 1-2,3-4	50 MHz Host clock 55 MHz Host clock (IMI604 U10) 60 MHz Host clock 66 MHz Host clock		
J8	Open 1-2 1-2,3-4 3-4	1.5x CPU 2x CPU 2.5x CPU 3x CPU		
JP12,13	<b>JP12</b> 1-2* 2-3	<b>JP13</b> 1-2* 2-3	<b>SRAM voltage</b> 5v (mixed SRAM) 3.3v (pure 3.3v or PB SRAM)	
J13	6-7,21-22	VRM connector - all CPUs		
JP17	1-2 3-4 5-6	3.52v CPU 3.38v CPU* 3.3v CPU		
JP19	1-2 2-3	Tag installed for PB SRAM module Tag not installed for PB SRAM module – install Std SRAM at U17		
JP23	Open 1-2 2-3	Page mode flash BIOS* 5v flash program voltage 12v flash program voltage		
JP7,21,22	<b>JP7</b> 1-2 2-3 Open	<b>JP21</b> 2-3 1-2 Open	<b>JP22</b> 1-2 2-3 Open	<b>Cache size (standard SRAM)</b> 256K* 512K 256/512K (PBSRAM)

Case Connections – J12

Turbo LED	2-3
SMI switch	4-5
Turbo switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

TS 54P AIO

Jumper	Position	Function	
JP1	1-2 2-3	Pure 3.3v cache Mixed 5/3.3v cache	
JP4	Open 1-2 3-4 1-2,3-4	50 MHz host 55 MHz host (U22 uses IMI 604 only) 60 MHz host 66 MHz host	
JP5,10	<b>JP5</b> Open Short Short Open	<b>JP10</b> Open Open Short Short	<b>Clock multiplier</b> 1.5x 2x 2.5x 3x
JP6,27	<b>JP6</b> Open 1-2,3-4	<b>JP27</b> Open 1-2,3-4	<b>CPU voltage</b> 3.3v (from power supply) 3.3v (from onboard regulator)
JP7	1-2 2-3	Enable onboard I/O Disable	
JP8,9	<b>JP8</b> 1-2 2-3	<b>JP9</b> 1-2 2-3	<b>ECP DMA (SMC37C665GT only)</b> DMA1 DMA3
J12	5-6,7-8	IR normal COM2/4	

<i>Jumper</i>	<i>Position</i>						<i>Function</i>
	Open						IR connector
JP15	Open						Normal
	Short						Clear CMOS
JP20-24	<b>JP20</b>	<b>JP21</b>	<b>JP22</b>	<b>JP23</b>	<b>JP24</b>	<b>L2 cache size</b>	
	1-2	1-2	1-2	2-3	1-2	256K PBSRAM (U17, U18)	
	1-2	1-2	2-3	2-3	1-2	256K Standard SRAM (U9-16)	
	2-3	1-2	2-3	1-2	2-3	512K Standard SRAM (U9-U16)	
JP25	1-2						L1 cache write back
	2-3						L1 cache write through
JP26	2-3						System clock PCICLK/4
	1-2						System clock PCICLK/3
JP28	1-2						3.14-3.46v
	3-4						3.3-3.46v
	5-6						3.45-3.6v
JP50	1-2,3-4,5-6,7-8						U25 not installed
	Open						U25 installed

#### Case Connections – J11

Turbo LED	2-3
SMI switch	4-5
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### UA 4982

<i>Jumper</i>	<i>Position</i>							<i>Function</i>
JP1	1-2							5v Flash ROM
	2-3							12v Flash ROM
JP3	Open							External keyboard control
	Short							Internal keyboard control
JP4-6 10-13	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>JP13</b>	<b>Cache size</b>
	1-2	1-2	Open	Open	Open	Open	Open	128K (32Kx8)
	1-2	1-2	1-2	Open	Open	Open	Short	256K (64Kx8)
	1-2	2-3	2-3	1-2	Short	Open	Short	512K (128x8)
JP7-9	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>					<b>CPU speed</b>
	Short	Open	Open					25 MHz
	Short	Short	Short					33 MHz
	Short	Short	Open					40 MHz
JP14-19	Open	Open	Short					50 MHz
	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>JP18</b>			<b>CPU Type</b>
	Open	2-3	Open	Open	2-3	Open		486SX/SX2
	Open	1-2,3-4	1-2	Open	2-3	Open		486DX/DX2/AmDX4
	1-2,3-4	2-3	Open	5-6	1-2	1-2		486SX/SX2 (SL)
	1-2,3-4	1-2,3-4	1-2	5-6	1-2	1-2		486DX/DX2 (SL)
	1-2,3-4	1-2,3-4	1-2	3-4,5-6	1-2,4-5	1-2,4-5		486DX2 (P24D) L1 wb
	1-2,3-4	1-2,3-4	1-2	5-6	1-2	1-2		Intel 486DX4
Open	2-3	3-4	1-2	2-3	2-3		UMC U5-S Super	
2-3	1-2,3-4	1-2	2-3,4-5	1-2,3-4,5-6	1-2,3-4		Cyrix 486DX/DX2(M7)	
2-3,4-5	2-3	Open	2-3,4-5	1-2,3-4,5-6	1-2,3-4,5-6		Cyrix 486S(M6)	
JP20-22	<b>JP20</b>	<b>JP21</b>	<b>JP22</b>					<b>CPU voltage</b>
	1-2	1-2	Open					5v
	2-3	2-3	1-2					3.45v
	2-3	2-3	2-3					3.3v
JP24	Open							DX4 internal clock x 3
	Short							DX4 internal clock x 2
JP25	Open							Local bus <=33 MHz

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Short	Local bus >33 MHz
JP26	Open	Local bus write 0 wait state
	Short	Local bus write 1 wait state
JP100,102 102,300	Short	Cyrix DX2-50
	Open	Other CPUs
JP400	Open	AMD DX4 3x clock
	Short	AMD DX4 or DX2802x

## Case Connections – J90

Turbo LED	2-3
SMI switch	4-5
Turbo switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

## UC 4913

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
JP1	Open	Local Bus Write 0 wait state			
	Closed	Local Bus Write 1 wait state			
JP2	Open	Local Bus Speed <=33 MHz			
	Closed	Local Bus Speed >33 MHz			
JP7	1-2,3-4	80486DX, DX2, P23T, AMD 486DX, M6/C6 module			
	2-3	80486SX, M6, AMD486SX			
JP9,10	<b>JP9</b>	<b>JP10</b>	<b>CPU Clock</b>		
	Short	Short	25 MHz		
	Open	Short	33 MHz		
	Short	Open	40 MHz		
	Open	Open	50 MHz		
JP11	1-2		Mono display		
	2-3		Colour		
JP12	Open		486PQFP		
	Closed		486PGA		
JP13	<b>JP13</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>Cache size</b>
15-17	Open	Open	1-2	Open	64K
	2-3	Open	2-3	Short	128K
	1-2	Short	1-2	Short	256K
JP18	1-2				Weitek Power 9000 VESA VGA card not installed
	2-3				Weitek Power 9000 VESA VGA card installed
JP19-21	<b>JP19</b>	<b>JP20</b>	<b>JP21</b>		<b>C6 coprocessor</b>
	1-2	2-3	2-3		Present
	2-3	1-2	1-2		Absent
JP23	1-2				CPU clock 50 MHz
	2-3				CPU clock <=40 MHz

## UC 4980

<i>Jumper</i>	<i>Position</i>	<i>Function</i>						
JP1	Open	Normal EPROM						
	1-2	5v Flash ROM						
	2-3	12v Flash ROM						
JP3	Open	External keyboard control						
	Short	Internal keyboard control						
JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>JP13</b>	<b>Cache size</b>
10-13	1-2	1-2	Open	Open	Open	Open	Open	128K (32Kx8x4)
	1-2	1-2	1-2	Open	Open	Open	Short	256K (64Kx8x4)
	2-3	2-3	Open	Open	Open	Open	Short	256K (32Kx8x8)
	2-3	2-3	2-3	Open	Short	Open	Short	512K (64Kx8x8)

Jumper	Position						Function	
	1-2	2-3	2-3	1-2	Short	Open	Short	512K (128x8x4)
	2-3	2-3	2-3	2-3	Short	Short	Short	1Mb (128Kx8x8)
JP7-9	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>					<b>CPU speed</b>
	Short	Open	Open					25 MHz
	Short	Short	Short					33 MHz
	Short	Short	Open					40 MHz
	Open	Open	Short					50 MHz
JP14-19	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>JP18</b>	<b>JP19</b>		<b>CPU Type</b>
	Open	2-3	Open	Open	2-3	Open		486SX/SX2
	Open	1-2,3,4	1-2	Open	2-3	Open		486DX/DX2
	1-2,3,4	2-3	Open	5-6	1-2	1-2		486SX/SX2 (SL)
	1-2,3,4	1-2,3,4	1-2	5-6	1-2	1-2		486DX/DX2 (SL)
	1-2,3,4	1-2,3,4	1-2	3-4,5-6	1-2,4-5	1-2,4-5		486DX2 (P24D) L1 wb
	2-3,4-5	2-3	Open	2-3,4-5	1-2,3-4,5-6	1-2,3-4,5-6		Cyrix 486S(M6)
	2-3	1-2,3,4	1-2	2-3,4-5	1-2,3-4,5-6	1-2,3,4		Cyrix 486DX/DX2
	Open	2-3	3-4	1-2	2-3	2-3		UMC U5-S Super
	Open	1-2,3,4	1-2,3-4	1-2	2-3	2-3		AMD DXL/DXL2
	1-2,3,4	1-2,3,4	1-2	5-6	1-2	1-2		Intel 486DX4
JP20-22	<b>JP20</b>	<b>JP21</b>	<b>JP22</b>					<b>CPU voltage</b>
	1-2	1-2	Open					5v
	2-3	2-3	1-2					3.45v
	2-3	2-3	2-3					3.3v
JP24	Open							DX4 internal clock x 3
	Short							DX4 internal clock x 2
JP25	Open							Local bus <=33 MHz
	Short							Local bus >33 MHz
JP26	Open							Local bus write 0 wait state
	Short							Local bus write 1 wait state

### UM486V

Jumper	Position					Function
JP13	1-2					Mono display
	2-3					Colour
JP15	Short					VESA ID2 CPU speed > 33 MHz
	Open					VESA ID2 CPU speed <= 33 MHz
JP16	Short					VESA ID3 1 wait state write
	Open					VESA ID3 0 wait state write
JP18-21	<b>JP18</b>	<b>JP19</b>	<b>JP20</b>	<b>JP21</b>	<b>CPU clock</b>	
	Short	Short	Open	Open	25 MHz	
	Open	Short	Open	Open	33 MHz	
	Open	Open	Open	Open	50 MHz	
JP22,23	<b>JP22</b>	<b>JP23</b>	<b>JP27</b>	<b>JP28</b>	<b>Cache size</b>	
27,28	1-2	Open	Open	1-2	64K	
	2-3	Open	Short	2-3	128K	
	1-2	Short	Short	2-3	256K	
JP24	Open					Enable 486SX PQFP setting
	Short					Disable
JP14-15	<b>JP25</b>	<b>JP26</b>				<b>CPU Type</b>
	1-2,3,4	1-2				80486DX (DX2)
	2-3	Open				80486SX
	1-2,3,4	2-3				80487SX (Overdrive)

### UM 4980

Jumper	Position	Function
JP1	Open	Normal EPROM
	1-2	5v Flash ROM

Jumper	Position							Function
	2-3							12v Flash ROM
JP3	Open							External keyboard control
	Short							Internal keyboard control
JP4-6 10-13	<b>JP4</b> 1-2 1-2 2-3 2-3 1-2 2-3	<b>JP5</b> 1-2 1-2 2-3 2-3 2-3 2-3	<b>JP6</b> Open Open Open Open 2-3 2-3	<b>JP10</b> Open Open Open Open 1-2 2-3	<b>JP11</b> Open Open Open Short Open Short	<b>JP12</b> Open Open Open Open Open Open Short	<b>JP13</b> Open Short Short Short Short Open Short	<b>Cache size</b> 128K (32Kx8x4) 256K (64Kx8x4) 256K (32Kx8x8) 512K (64Kx8x8) 512K (128x8x4) 1Mb (128Kx8x8)
JP7-9	<b>JP7</b> Short Short Short Open	<b>JP8</b> Open Short Short Open	<b>JP9</b> Open Short Open Short				<b>CPU speed</b> 25 MHz 33 MHz 40 MHz 50 MHz	
JP14-19	<b>JP14</b> Open Open Open 1-2,3-4 1-2,3-4 1-2,3-4 2-3,4-5 2-3 Open 1-2,3-4	<b>JP15</b> 2-3 1-2,3-4 1-2,3-4 2-3 1-2,3-4 2-3 2-3 2-3 1-2,3-4	<b>JP16</b> Open 1-2 1-2 Open 1-2 Open 1-2 1-2 3-4	<b>JP17</b> Open Open Open 5-6 5-6 2-3,4-5 2-3,4-5 1-2 1-2	<b>JP18</b> 2-3 2-3 2-3 1-2 1-2,4-5 1-2,3-4,5-6 1-2,3-4,5-6 1-2,3-4 2-3 1-2	<b>JP19</b> Open Open Open 1-2 1-2 1-2,4-5 2-3 2-3 1-2	<b>CPU Type</b> 486SX/SX2 486DX/DX2 AMD Am 486DX4 486SX/SX2 (SL) 486DX/DX2 (SL) 486DX2 (P24D) L1 wb Cyrix 486S(M6) Cyrix 486DX/DX2 UMC U5-S Super Intel 486DX4	
JP20-22	<b>JP20</b> 1-2 2-3 2-3	<b>JP21</b> 1-2 2-3 2-3	<b>JP22</b> Open 1-2 2-3				<b>CPU voltage</b> 5v 3.45v 3.3v	
JP24	Open							DX4 internal clock x 3
	Short							DX4 internal clock x 2
JP25	Open							Local bus <=33 MHz
	Short							Local bus >33 MHz
JP26	Open							Local bus write 0 wait state
	Short							Local bus write 1 wait state

UM 4981

Jumper	Position					Function
JP2	Open					Normal EPROM
	1-2					5v Flash ROM
	2-3					12v Flash ROM
JP3	1-2					Enable onboard multi I/O
JP5-6	<b>JP5</b> 1-2 2-3	<b>JP6</b> 1-2 2-3			<b>ECP Mode</b> DRQ1, DACK1 DRQ3, DACK3	
JP8	Short					Enable parallel port ECP mode
	Open					Normal mode
JP9-11	<b>JP9</b> Open Short Open Short	<b>JP10</b> Open Short Short Open	<b>JP11</b> Short Short Short Open			<b>CPU clock</b> 25 MHz 33 MHz 40 MHz 50 MHz
JP22-25	<b>JP22</b> 2-3 1-2 2-3	<b>JP23</b> Open 1-2 2-3	<b>JP24</b> Open Open Short	<b>JP25</b> Open Short Short	<b>Cache size</b> 64K (8Kx8 – 2 banks) 128K (32Kx8 – 1 bank) 256K (32Kx8 – 2 banks)	
JP26,40	<b>JP26</b>	<b>JP40</b>				<b>CPU Voltage</b>

Jumper	Position		Function		
	Short	Open	5v (from power supply)		
	Open	1-2,3-4	3.3v (from 3.3v power supply)		
	VR100	Open	Others		
JP27	Open		VESA 0 wait state		
	Short		VESA 1 wait state		
JP28	Open		CPU speed <=33 MHz		
	Short		CPU speed >33 MHz		
JP29	Open		DX4 3x clock		
	2-3		DX4 2x clock		
JP36	1-2		Enable Primary/Secondary IDE		
	2-3		Disable		
JP37,38	<b>JP37</b>	<b>JP38</b>	<b>Hard Disk Timing</b>		
			2-3	2-3	Active time 15T, Cycle time 30T, Spd 1, 40/50 Mb
			1-2	2-3	Active time 15T, Cycle time 19T, Spd 2, 25/33 Mb
			2-3	1-2	Active time 9T, Cycle time 13T, Spd 3, <20 Mb or EIDE
			1-2	1-2	Active time 18T, Cycle time 37T, Spd 0, <40 Mb/non-ATA
JP41	Open		AMD 486DX2/DX4 3x clock		
	Short		AMD 486DX2/DX4 2x clock		

CPU Type	JP25	JP31	JP32	JP35	JP36	JP37	JP38	JP45
486SX/SX2	Open	Open	2-3	Open	Open	2-3	Open	Open
486DX/DX2	Open	Open	2-3	Open	1-2	1-2,3-4	Open	Open
486DX/DX2 (SL)	1-2,3-4	5-6	1-2	1-2	Open	2-3	Open	Open
486SX/SX2(SL)	1-2,3-4	5-6	1-2	1-2	1-2	1-2,3-4	Open	Open
486DX2 (P34D)	1-2,3-4	3-4,5-6	1-2,4-5	1-2,4-5	1-2	1-2,3-4	Open	Open
P24T	1-2,3-4	5-6	1-2	1-2	2-3	1-2,3-4	Open	Open
Am486DX4	Open	1-2	2-3	2-3	1-2,3-4	1-2,3-4	Open	Open
Cx486S(M6)	2-3,4-5	2-3,4-5	1-2,3-4,5-6	1-2,3-4	Open	2-3	Open	Open
Cx486DX/DX2(M7)	2-3	2-3,4-5	1-2,3-4,5-6	1-2,3-4	1-2	1-2,3-4	Open	Open
UMC U5S-Super	2-3	4-5	2-3	3-4	Open	2-3	Open	Open

#### Case Connections – JP30

Turbo LED	2-3
SMI switch	4-5
Turbo switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### UM8810P AIO

Item	Description	Notes
Form Factor	¾Baby AT	
CPU	486	Intel/Cyrix, including Pentium Overdrive
BIOS	Green Phoenix	
Bus	3 PCI/4 ISA	
Memory (Mb)	2-128	Older versions 64 Mb, in 4 x 16 single-sided or 2 x 32 double-sided SIMMs
Cache (K)	512	
I/O	2S, 1P, IDE	CMD chipset for IDE, SMC chip for built-in ser/par and UMC 888X for PCI.
Comments		Later versions have J41 removed for P24T PODP5V

Jumper	Position		Function		
JP4,5	<b>JP4</b>	<b>JP5</b>	<b>Parallel Port PRQ &amp; DACK</b>		
			2-3	1-2	DRQ1, DACK1
			1-2	2-3	DRQ3, DACK3*

Jumper	Position	Function
JP6	Open	System ROM is EPROM
	1-2	System ROM is 5v Flash ROM
	2-3	System ROM is 12v Flash ROM
JP8	1-2	Enable onboard multi I/O 37C665 (2-3 Disable)
JP10	All shorted	5v CPU
	VR100/102 JP1 1-2	3.3
	VR100/102 JP1 3-4	3.45
	VR100/102 JP1 5-6	3.6
JP12	Open	Enable onboard IDE
	Short	Controlled by BIOS*
JP17	1-2	25 Mhz host clock speed
	1-2,3-4,5-6	33 Mhz host clock speed
	1-2,3-4	40 Mhz host clock speed
	5-6	50 Mhz host clock speed
JP25	1-2	Am486 DX2/4 Nv8T 3x CPU clock*
	2-3	Am486 DX2/4 Nv8T 2x CPU clock
JP29	Open	i486DX4, AMD DX2/4 SV8B 3x CPU clock*
	Short	i486DX4, AMD DX2/4 SV8B 2x CPU clock
JP30	Open	Normal operation
	Short	Clear CMOS

Cache Size	JP13	JP14	JP16	JP33	JP35
128K (32Kx8)	-	1-2	2-3	-	-
256K (32Kx8)	-	2-3	1-2	-	Short
512K (64Kx8)	-	2-3	1-2	Short	Short
512K (128Kx8)	1-2	2-3	2-3	Short	Short

	i486DX/DX2 A486 DX2/4 NV8T	i487SX ODP	i486SX	DX/2/4 (SL) ODPR	SX/2(SL)	DX2/4(SL) ADX2/4Sv8B Cx5x86 100/120
JP18	-	-	-	-	-	Short
JP19	-	-	-	-	-	-
JP20	1-2,3-4	1-2,3-4	2-3	1-2,3-4	2-3	1-2,3-4
JP21	1-2	2-2	-	1-2	-	1-2
JP22	-	-	-	1-2	1-2	1-2,3-4
JP23	-	-	-	-	-	-
JP24	1-2	1-2	1-2	2-3	2-3	2-3
JP25	-	-	1-2	-	-	-
JP27	-	-	-	2-3,4-5	2-3,4-5	2-3,4-5
JP28	-	-	-	-	-	-
JP36	-	-	-	1-2	1-2	1-2
JP37	1-2	1-2	1-2	1-2	1-2	1-2
JP38	1-2	1-2	1-2	1-2	1-2	1-2
JP44	-	-	-	-	-	-

	P24T	CxDX/2/4 M7	CxDX4 100GP4	Cx486S	U5SD	U5S
JP18	-	-	Short	-	-	-
JP19	-	Short	-	Short	-	-
JP20	1-2,3-4	1-2,3-4	1-2,3-4	2-3	1-2,3-4	2-3
JP21	2-3	1-2	1-2	-	1-2,3-4	1-2,3-4
JP22	1-2	2-3	1-2,3-4	2-3	-	-
JP23	1-2	2-3	-	2-3	-	-
JP24	2-3	2-3	2-3	2-3	1-2	1-2
JP25	-	1-2	1-2	-	-	-



	P24T	CxDX/2/4 M7	CxDX4 100GP4	Cx486S	U5SD	U5S
JP27	2-3 4-5	1-2 3-4	2-3 4-5	1-2 3-4	-	-
JP28	1-2	2-3	-	2-3	3-4	3-4
JP36	1-2	1-2	1-1	1-2	2-3	2-3
JP37	1-2	1-2	1-2	1-2	2-3	2-3
JP38	1-2	2-3	2-3	2-3	1-2	1-2
JP44	-	-	-	-	-	-

#### Case Connections – J11

Turbo LED	2-3
SMI switch	4-5
Turbo switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

#### UP 8812 AIO

Jumper	Position	Function		
JP1	Open	EPROM BIOS		
	1-2	5v Flash ROM		
	2-3	12v Flash ROM		
JP3	1-2	Enable onboard multi I/O		
	2-3	Disable		
JP5	1-2	25 MHz CPU		
	1-2,3-4,5-6	33 MHz CPU		
	1-2,3-4	40 MHz CPU		
	5-6	40 MHz CPU		
JP21	Short	DX4 internal clock 2x		
	Open	DX4 internal clock 3x		
JP30	<b>JP30</b>	<b>JP32</b>	<b>JP33</b>	<b>CPU voltage</b>
32-33	Open	1-2	1-2	5v
		2-3	2-3	3.3v
		3-4	2-3	3.45v
		5-6	2-3	3.6v
		7-8	2-3	4v

L2 cache	JP6	JP7	JP8	JP14	JP19	JP24
128K (32Kx8 1 bank)	-	-	-	-	-	2-3
256K (32Kx8 2 bank)	Short	-	-	-	-	1-2
256K (64Kx8 1 bank)	Short	-	-	-	1-2	2-3
512K (64Kx8 2 bank)	Short	Short	-	-	2-3	1-2
512K (128Kx8 1 bank)	Short	Short	-	1-2	1-2	2-3
1 Mb (128Kx8 2 bank)	Short	Short	Short	2-3	2-3	1-2

	i486DX/DX2 A486 DX/2/4 NV8T	DX/2/4 (SL) ODPR	i486SX (PGA)	i486SX (SL)	PD5v (P24T)	Cx486S (M6)	CxDX/2/4 M7	DX2/4(SL) ADX2/4Sv8B C5x86 100/120
JP9	Open	2-3	Open	Open	Open	Open	Open	1-2
JP10	Open	Open	Open	Open	Open	Open	Open	Open
JP12	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2
JP13	1-2	1-2	1-2	1-2	1-2	2-3	2-3	1-2
JP15	Open	Open	Open	Open	1-2	2-3	2-3	Open

	i486DX/DX2 A486 DX/2/4 NV8T	DX/2/4 (SL) ODPR	i486SX (PGA)	i486SX (SL)	PD5v (P24T)	Cx486S (M6)	CxDX/2/4 M7	DX2/4(SL) ADX2/4Sv8B C5x86 100/120
JP16	Open	Open	Open	Open	Open	2-3	2-3	Open
JP17	Open	1-2	Open	1-2	1-2	1-2	1-2	1-2
JP18	1-2	2-3	1-2	2-3	1-2	2-3	2-3	2-3
JP21	Open	Open	Open	Open	Open	Open	Open	Open*
JP23	Open	Open	Open	Open	Short	Open	Open	Open
JP25	Open	1-2	Open	1-2	1-2	2-3	2-3	1-2,3-4
JP26	1-2	1-2	Open	Open	2-3	Open	1-2	1-2
JP27	Open	Open	Open	Open	1-2	2-3	2-3	Open
JP28	1-2,3-4	1-2,3-4	2-3	2-3	1-2,3-4	2-3	1-2,3-4	1-2,3-4
JP29	Open	2-3,4-5	Open	2-3,4-5	2-3,4-5	1-2,3-4	1-2,3-4	2-3,4-5

\*Short for AMD Am5x86-P75

Case Connections – J31

Turbo LED	2-3
SMI switch	4-5
Turbo switch	6-7
Reset switch	9-10
Power LED	11-13
Keyboard lock	14-15
Speaker	17-20

US 3486

Jumper	Position	Function							
J3	1-2	Colour display							
	2-3	Mono							
JP1	1-2	386 CPU							
	2-3	486 CPU							
JP2	Short	80387 installed Open =Not installed							
W12-13	<b>W12</b>	<b>W13</b>	<b>CPU Type</b>						
	1-2,3-4	1-2	80486DX (DX2)						
	2-3	Open	80486SX						
	1-2,3-4	2-3	80487SX (Overdrive)						
-	-	-	386						
W2-9	<b>Cache size</b>	<b>W2</b>	<b>W3</b>	<b>W4</b>	<b>W5</b>	<b>W6</b>	<b>W7</b>	<b>W8</b>	<b>W9</b>
	64K	Open	Open	Open	Open	1-2	Open	1-2	1-2
	128K	Open	Open	Short	Short	2-3	1-2	2-3	1-2
	256K	Short	Short	Short	Short	1-2	2-3	2-3	2-3

VESA 486

Jumper	Position	Function			
JP1	1-2	Mono display			
	2-3	Colour			
JP4-7	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>CPU clock</b>
	Short	Short	Open	Open	25 MHz
	Short	Open	Open	Open	33 MHz
JP8-11	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>Cache size</b>
	Open	Open	1-2	1-2	64K
	Short	Open	2-3	2-3	128K
JP12-13	<b>JP12</b>	<b>JP13</b>	<b>VESA ID Selection</b>		
	Open	Open	0 wait write		
	Closed	Closed	1 wait write		
JP14-15	<b>JP14</b>	<b>JP15</b>	<b>CPU Type</b>		
	1-2,3-4	1-2	80486DX (DX2)		
	2-3	Open	80486SX		

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	1-2,3-4    2-3	80487SX (Overdrive)

### VL 486

As for VESA 486

### Edom International

www.edom.com. Refer also to Wintec.

### EFA

www.efacorp.com www.efa.com.tw

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0-00	4DMS-HL3G	AC	P5TVX-AT/P5V580-AT-C
1-00	486 VIP	CC	P55T2PIO-B ver 2.07
1C-00	P54NPCI or P5/MP4	HC	P55T-PIO-B
9	P5V580-AT-3		

### EFAR

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-0B	EF 9417		

### Elite Group

See ECS

### Elonex

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
U	W14		

### 88C

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J2	In	Enable NMIs
	Out	Disable NMIs
J3	1-2	Enable IRQ3
	2-3	Enable IRQ4
J4	In	Enable reset
	Out	Disable reset
J7	1-2	Enable COM2 2F8-2FF
	2-3	Enable COM1 3F8-3FF

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8	1-2	Real clock time H240
	2-3	Real clock time H340
J10	1-2	Floppy A=720K, B=360K
	2-3	Floppy A=360K, B=720K
	All out	Floppy A=360K, B=360K
	All in	Floppy A=720K, B=720K
J11	None	2764 8K ROM
	1-2,3-4	27512 64K ROM
	3-4	27128 16K ROM
SW1	1-2,7-8	Mono display
	1-2,3-4,7-8	80x25 colour display
	1-2,5-6,7-8	40x25 colour display
	1-2,3-4,5-6,7-8	EGA

## 88C

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J2	In	FDD secondary address 370-377h	
	Out*	FDD primary address 3F0-3F7h	
J3	In	Enable floppy controller card	
	Out	Disable	
J4	<b>A</b>	<b>B</b>	<b>Floppy settings</b>
	1-2	1-2	A=360K, B=360K
	1-2	3-4	A=720K, B=720K
	All out		A=1.2 Mb, B=1.2 Mb
	All in		A=1.44 Mb, B=1.44 Mb
J7		Reserved	
J8	1-2	HD address 324h	
	2-3*	HD address 320h	
J9	1-2	HD firmware address CA00h	
	2-3*	HD firmware address C800h	
J10	1-2	Onboard HD IRQ2	
	2-3*	Onboard HD IRQ5	
J12	1-2	Enable COM2	
	2-3*	Enable COM1	
	All out	Disable	
J13	1-2	RTC address 240-25Fh	
	2-3*	RTC address 340-35Fh	
J17	None*	27128 ROM	
	1-2	27256 ROM	
	1-2,3-4	27512 ROM	
J18	In*	Enable game port	
J19	1-2*	LPT IRQ7	
	2-3	LPT IRQ5	
J20	1-2	Serial IRQ3	
	2-3*	Serial IRQ4	
J21,23	<b>J21</b>	<b>J23</b>	<b>Monitor type</b>
	Out	Out	Mono 80x25
	Out	In	Colour 40x25
	1-2	1-2	Plug in EGA/VGA
J23		Front panel LED	
J27	None	Disable parallel port	
	B*	Parallel port I/O 3BC-3BFh	
	A,B	Parallel port I/O 378-37Fh	
J28	Out	Mono display	
	In	Colour display	

## 88S

Switch	Position	Function	
S1		Reserved	
S2	On*	Maths copro not installed	
	Off	8087-1 installed	
S3		Reserved	
S4		Reserved	
S5,6	<b>S5</b>	<b>S6</b>	<b>Monitor type</b>
	On	On	Unused
	Off	On	40x25 colour
	On	Off	80x25 colour
	Off	Off	80x25 Mono
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies</b>
	On	On	1 fitted
	Off	On	2 fitted
	On	Off	3 fitted
	Off	Off	4 fitted

## 286C-12

Jumper	Position	Function		
J1	4	Disable COM1		
	3	Disable LPT1		
	2	Disable COM2		
	1	Disable LPT2		
J4	Out	System clock divided by 2 for slower I/O		
	In	I/O frequency synchronised with system clock		
J5	1-2	Clock input used directly		
	2-3	80287 divides clock input by 3		
J6	2-3	80287 synchronised to CPU		
	1-2	80287 synchronised to oscillator		
J12		Reserved		
J15	1-2	0 wait state		
	2-3	1 wait state		
J18	1-2	27256 EPROM		
	2-3	27128 EPROM		
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>Memory (chips)</b>
S1-3	On			256K or less
	Off			1 Mb
	On	On	On	256K (4 rows of 64K)
	On	On	Off	512K (2 rows of 256K)
	On	Off	On	640K (2 rows of 64K, 2 rows of 256K)
	On	Off	Off	1 Mb (4 rows of 256K)
	Off	On	On	2 Mb (2 rows of 1 Mb)
	Off	On	Off	640K (2 rows of 1 Mb)
	Off	Off	On	2 Mb (2 rows of 1 Mb)
	Off	Off	Off	4 Mb (4 rows of 1 Mb)
SW1	On			Colour monitor
S4	Off			Mono monitor

## 286C-100

Jumper	Position	Function
J5	1-2	COM2 IRQ4
J7	1-2	COM1 IRQ3
J8	1-2	COM2 IRQ3
J11	2-3	Mono display
	1-2	CGA, EGA display

Jumper	Position	Function
J14	In	Enable COM1
	Out	Disable COM1
J15	In	Enable COM2
	Out	Disable COM2
J16	1-2	COM1 IRQ4
J17	1-2	80287 clock direct
	2-3	80287 divide by 3
J22	In	Base memory 512/640K
	Out	Base memory 512K/1 Mb
J23	1-2	80287 clock from system
	2-3	80287 clock from 8234
J24	In	32K BIOS (27256)
	Out	16 K BIOS (27128)
J25	In	0 wait state
	Out	1 wait state

## 286m

Jumper	Position	Function				
J1	1-10	Disable floppy				
	2-9	Disable HD				
	4-7	Disable LPT1				
	3-8	Disable COM2				
	5-6	Disable COM1				
J5	1-2	Other BIOS				
	2-3	Phoenix BIOS				
J6	In	Same DRAM in memory banks				
	Out	Different DRAM				
J7	1-2*	Quiet bus enabled				
	2-3	Disabled				
J11	1-2	27256 EPROM (32K)				
	2-3	27128 EPROM (16K)				
J14	1-2	EGA monitor with digital output				
	2-3	Colour or Mono with digital output				
J16	In	Enable Onboard display				
	Out	Disable Onboard display				
J17	2-3	80287-8 24M				
	1-2	80287-10 24M				
	1-2	80287-6 24M(20M)				
J18	1-2	No oscillator				
	2-3	10 MHz				
	2-3	6 MHz				
J20	Out	Maths copro installed				
J27	Out	Enable VGA IRQ9				
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>Memory Size</b>		
S1-3	Off	Off	Off	512K (256K*2)		
	Off	Off	On	640K (256K*2+64K*2)		
	Off	On	Off	1 Mb (256K*4)		
	On	Off	Off	2 Mb (1Mb*2)		
	On	On	Off	4 Mb (1Mb*4)		
SW1	On			Enable external colour display		
S4	Off			Enable external Mono display		
SW2	<b>Display Type</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>
S1-6	VGA	On				
	CGA 40x25	Off	On	Off	Off	On
	CGA 80x25	Off	On	Off	Off	Off
	EGA 200 line	Off	Off	On	On	On
	EGA 350 line	Off	Off	On	On	Off
	MGA	Off	Off	On	Off	On

Jumper	Position	Function				
	MGA	Off	Off	On	Off	Off

### 286M-10TTL

Jumper	Position	Function			
J1	All out	Floppy primary address			
	3-14	Floppy secondary address			
	4-13	Disable COM1			
	5-12	Disable LPT2			
	6-11	Disable COM1 (2?)			
	1-16 & 2-15	Enable Onboard display			
J6	1-2	80287 clock input used directly			
	2-3	80287 clock input divided by 3			
J7	1-2	80287 clock from system			
	2-3	80287 clock from 8234			
J28	1-2	27256 EPROM (32K) 2-3 27128 EPROM (16K)			
SW1	On	CPU speed $\frac{1}{2}$ of CLK 2			
S1	Off	CPU speed $\frac{1}{2}$ of CLK 2			
SW1	On	I/O half speed			
S2	Off	I/O full speed			
SW1	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Base Memory</b>	
S3-5	On	On	On	256K	
	Off	On	On	512K	
	On	Off	On	640K	
	Off	Off	On	640+384K	
SW1	On	Onboard colour display			
S6	Off	Onboard Mono display			

### 286M-12TTL

Jumper	Position	Function			
J1	2-15 In	Enable Onboard display			
	5-12 In	Disable LPT1			
	6-11 In	Disable COM1			
	3-14 In	Out- floppy primary address In - secondary			
	4-13 In	Disable COM2			
J6	1-2	80287 clock input used directly			
	2-3	80287 clock input divided by 3			
J7	1-2	80287 clock from system			
	2-3	80287 clock from 8234			
J14	1-2	0 wait state			
	2-3	1 wait state			
J20	1-2	80 ns DRAM			
	2-3	100 ns DRAM			
J28	1-2	27256 EPROM (32K)			
	2-3	27128 EPROM (16K)			
SW1	On	$\frac{1}{2}$ of CLK*2 (low)			
S1	Off	$\frac{1}{2}$ of CLK*2 (high)			
SW1	On	I/O half speed			
S2	Off	I/O full speed			
SW1	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Memory Size</b>	
S3-5	Off	On	On	512K	
	On	Off	On	640K	
	Off	Off	On	1 Mb	
	On	On	Off	2 Mb	
	Off	On	Off	2 Mb	
	On	Off	Off	2 Mb	
	Off	Off	Off	4 Mb	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
SW1	On	Colour display
S6	Off	Mono display

**286S-10**

<i>Switch</i>	<i>Position</i>	<i>Function</i>				
SW1	<b>S1</b>	<b>S2</b>	<b>Memory</b>	<b>Bank 0</b>	<b>Bank 1</b>	<b>RAM</b>
S1-2	On	On	256K	64-12	64-12	0-256K
	On	Off	640K	256-12	256-12	0-640K
	Off	On	512K	256-12	None	0-512K
	Off	Off	1 Mb	256-12	256-12	0-512K 1-1.5 Mb
SW1	On		Colour display			
S3	Off		Mono display			
SW1	On		16Kx2 BIOS			
S4	Off		32Kx2 BIOS			

**286S-12**

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
SW1	<b>S1</b>	<b>S2</b>	<b>CPU Speed</b>
S1-2	Off	Off	High (12/10 MHz) with I/O low (6/5 MHz)
	Off	On	High, with I/O High
	On		Low, with I/O low
SW1	<b>S3</b>	<b>S4</b>	<b>Memory</b>
S3-4	On	On	256K
	Off	On	512K
	On	Off	640K
	Off	Off	640K
W2	1-2		12 MHz 0 wait state (80 ns DRAM)
	2-3		12 MHz 1 wait state (100 ns DRAM)
W4	1-2		12 MHz
W6	1-2		16Kx2 BIOS (27128)
	2-3		32Kx2 BIOS (27256)
W7	Out		Mono display
	In		Colour display

**286S-120**

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
J4,5	<b>J4</b>	<b>J5</b>	<b>Wait state</b>
	Out	Out	0 wait state (fixed)
	In	Out	1 wait state (fixed)
	Out	In	0 or 1 (controlled by software)
J11,3	<b>J11</b>	<b>J3</b>	<b>Maths copro speed</b>
	1-2	1-2	12 MHz
	2-3	5-6	10 MHz
	2-3	3-4	8 MHz
	2-3	7-8	4.77 or 6 MHz
SW1	<b>S1</b>	<b>S2</b>	<b>EPROM size</b>
S1-2	On	On	32Kx2 (U51,52) or 32Kx2 and 32Kx3 (U53,54)
	Off	Off	16Kx2 (U51,52) or 16Kx2 and BASIC ROM (U53,54)
S3	On		1 Mb address 00000-9FFFF, 100000-15FFFF
	Off		512K at 00000-7FFFF or 1 Mb 00000-7FFFF, 100000-17FFFF
S4	Off		Mono display
	On		Colour display

**386B-25/33**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>		
J1-3	<b>J1</b>	<b>J2</b>	<b>J3</b>	<b>Cache board</b>



<i>Jumper</i>	<i>Position</i>			<i>Function</i>
	Out	Out	Out	Disabled
	1-2	1-2	Out	32K cache card
	2-3	2-3	In	64K cache card
J6	In*			Onboard battery
	Out			External battery
J9	1-2			64K EPROM
	2-3			32K EPROM
J10	1-2			Non-pipeline mode
	2-3			Pipeline mode
J12	In*			Colour display
	Out			Mono display
J15	1-2			Maths copro installed

### 386S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J2	In*	Colour display
	Out	Mono display
J3	1-2 In	Enable 80387
	1-2 Out*	Disable

### 386s-16

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
J1	1-2			Enable COM2 (2F8-2FF)
	2-3			Disable
J2	1-2			Enable COM1 (3F8-3FF)
	2-3			Disable
JP22				Reserved
JP23				Reserved
JP25				Reserved
JP26				Reserved
J28				Display type
J29,30	<b>J29</b>	<b>J30</b>		<b>EPROM</b>
	1-2	2-3		16Kx2=32K
	2-3	2-3		32Kx2=64K
	2-3	1-2		64Kx2=128K
J32-34	<b>J32</b>	<b>J33</b>	<b>J34</b>	<b>Maths coprocessor</b>
	Out	Out	In	Not installed
	1-2	Out	Out	80287
	1-2	In	Out	80387

### 386s-20

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J1	In	Old 80386	
	Out	New 80386	
J3		Maths copro	
J11		Reserved	
J16	Out	Mono display	
	In	Colour	
J19	1-2	CPU speed software changeable	
	2-3	Low speed	
	All out*	High speed	
J20	1-2	Asynchronous reset	
	2-3	Synchronous reset only	
J21-22	<b>J21</b>	<b>J22</b>	<b>Maths coprocessor</b>

Jumper	Position	Function	
	In	In	80387 installed
	Out	Out	Not installed

### 386sx

Jumper	Position	Function	
JP1		Reserved	
JP2	In*	Keyboard controller pins 23&24 compatible with Phoenix 8242.	
J2	1-2	27512K EPROM	
	2-3*	27256K EPROM	
J3	1-2	0E0000-0FFFFFFh & FE0000-FFFFFFh (27512)	
	2-3*	0F0000-0FFFFFFh & FF0000-FFFFFFh (27256)	
S1	Off	Mono & Hercules mode	
	On	Colour (EGA & VGA)	
S2	Off	80387sx installed	
	On	Not installed	
S3,4	<b>S3</b>	<b>S4</b>	<b>DRAM Type</b>
	Off*	Off*	100ns FPM (interleave enabled)
	On	Off	100ns FPM (interleave disabled)
	Off	On	Normal 100 ns
	Off	Off	120 ns (1 wait state)

### 386SXB-16

#### Processor board

Jumper	Position	Function	
J1		Reserved	
JP2	In*	Keyboard controller pins 23&24 compatible with Phoenix 8242.	
J2	1-2	27512K EPROM	
	2-3*	27256K EPROM	
J3	1-2	0E0000-0FFFFFFh & FE0000-FFFFFFh (27512)	
	2-3*	0F0000-0FFFFFFh & FF0000-FFFFFFh (27256)	
S1	Off	Mono & Hercules mode	
	On	Colour (EGA & VGA)	
S2	Off	80387sx installed	
S3,4	<b>S3</b>	<b>S4</b>	<b>DRAM Type</b>
	Off*	Off*	100ns FPM (interleave enabled)
	Off	Off	120 ns (1 wait state)

### 386SXM-16

Jumper	Position	Function
JP1	1-14	Disable floppy
	4-11	Disable COM2
	5-10	Disable LPT1
	6-9	Disable COM1
	7-8	Disable HD
JP5	1-2	EGA digital output
	2-3	Colour or Mono with digital output
JP7	In	Enable VGA IRQ9
JP8	In*	Enable VGA
JP9	In*	16-bit VGA
	Out	8-bit VGA
JP15	1-2*	27256 EPROM
	2-3	27512 EPROM

#### Switch 1

	S1	S2	S3	S4	S5
VGA	On	-	-	-	-

	S1	S2	S3	S4	S5
CGA 40x25	Off	On	Off	Off	On
CGA 80x25	Off	On	Off	Off	Off
EGA 200 line	Off	Off	On	On	On
VGA 350 line	Off	Off	On	On	Off
MGA	Off	Off	On	Off	On
MGA	Off	Off	On	Off	-
Reserved	On	On	Off	Off	-
Reserved	Off	On	Off	Off	-
Reserved	On	Off	Off	Off	-
Reserved	Off	Off	Off	Off	-

## Switch 2

Switch	Position	Function	
S1	On*	EGA/VGA	
	Off	Mono	
S2		Reserved	
S3	On	256K/1Mb DRAMs	
	Off*	Either type	
S4	On	Enables 384K	
	Off*	Disables 384K	
S5	On	1 Mb DRAMs used	
	Off*	256K DRAMs used	
S6,7	<b>S6</b>	<b>S7</b>	<b>Memory banks used</b>
	Off*	Off*	1
	On	Off	2
	Off	On	3
	On	On	4
S8	On	Enable maths coprocessor	

## LT386SX/P

Jumper	Position	Function	
J7		Enable floppy	
J8,9		System operation	
J10		Maths coprocessor	
JP1	In*	Keyboard controller pins 23&24 compatible with Phoenix 8242.	
JP2	Out*	Reserved	
JP3	1-2	Display I/O decoder address is 2FXh	
	2-3*	Display I/O decoder address is 3FXh	
JP5,6	<b>JP5</b>	<b>JP6</b>	<b>EPROM size</b>
	2-3*	2-3*	27256K
	1-2	1-2	27512K
JP7	Out*	Enable floppy	
JP8,9	<b>JP8</b>	<b>JP9</b>	<b>DRAM access time</b>
	1-2	1-2	120 ns (1 wait state)
	Out*	Out*	100 ns FPM, interleave enabled)
J10	Out	80387SX installed	

## Switch 1

Switch	Position	Function		
S1	On*	PS/2 monitor or compatible		
	Off	Analogue multi-frequency		
S2-4	<b>S2</b>	<b>S3</b>	<b>S4</b>	Automatic configuration
	On	On	On	MGA-locked
	Off	On	On	CGA-locked
	Off	Off	On	EGA-locked

Switch	Position		Function
	On	On	Off
			VGA-locked

## Switch 2

Switch	Position			Function
S1-3	S1	S2	S3	
	On	On	Off	PS/2 monitor or compatible
	On	On	Off	Analogue multi-frequency
S4	Off			Timing registers write-protected
	On			Not write-protected

## PCSX20C

Jumper	Position	Function
J4	Out	Reserved
J5	Out	Reserved
J6	Out	Colour VGA
	In	Mono VGA
J7	Out	Non-interlaced monitor
	In	Interlaced
J9	1-2	Enable VGA
J11	2-3	Drain CMOS
	2-3*	Retain CMOS
	Out	Disconnect battery
J12,17	1-2	16K cache
	2-3	64K cache

## 386V-33E

Jumper	Position	Function	
JP1	Out*	AT-compatible mouse interrupt	
	In	PS/2 mouse interrupt	
JP2	Out	Enable 80387	
	In*	Disable	
JP3	Out*	Synchronise copro with CPU	
	In	Asynchronous	
JP5,6	<b>JP5</b>	<b>JP6</b>	
	1-2	1-2	Keyboard type
	2-3*	2-3*	PS/2
SW1-4	On*		AT-compatible
	Off		Mono or Hercules display
	Off		CGE, EGA or VGA

## 386SXB/486B

## Switch 1

Switch	Position		Function
S1-2	<b>S1</b>	<b>S2</b>	<b>Onboard VGA</b>
	On*	On*	VGA
	On	Off	EGA
	Off	On	CGA
	On	On	MDA
S3	Off		Monitor scan rate 48-49KHz
	On*		Monitor scan rate less than 48KHz
S4			Reserved
S5	Off		Slow address decode
	On*		Fast address decode

Switch	Position	Function
S6	On	8-bit ROM data width
	Off*	16-bit ROM data width

Jumper	Position	Function		
J1		Connection for KB1 keyboard connector on CPU card		
J3	1-2	Enable or disable hardware with individual jumper settings		
	2-3	Automatic configuration with port address 3F3h		
J4,7	<b>J4</b>	<b>J7</b>	<b>Parallel port</b>	
	2-3	2-3	LPT2 (378)	
	2-3	1-2	LPT1 (3BC)	
	1-2	2-3	LPT3 (278)	
	1-2	1-2	Disable	
J5,8,10	<b>J5</b>	<b>J8</b>	<b>J10</b>	<b>Serial ports</b>
	2-3	2-3	2-3	COM1=UART1, COM2=UART2
	1-2	2-3	2-3	Disable COM1, COM2=UART2
	2-3	1-2	2-3	COM1=UART1, Disable COM2
	1-2	1-2	Out	Disable both
	2-3	2-3	1-2	COM2=UART1, COM1=UART2
	1-2	2-3	1-2	Disable COM2, COM1=UART2
	2-3	1-2	1-2	COM2=UART1, Disable COM1
J6	2-3		Enable floppy	
J9	2-3		2 floppies	
	1-2		Reserved	
J12	2-3		Enable hard disk	
	1-2		Disable Hard Disk	
J17,18	<b>J17</b>	<b>J18</b>	<b>Video memory</b>	
	2-3	1-2	44256x2	
	1-2*	2-3*	44256x4	
	2-3	2-3	44256x8	
J19,23	<b>J19</b>	<b>J23</b>	<b>Onboard VGA</b>	
	1-2	Out	Disable VGA	
	2-3	1-2	Enable VGA	
J20	In*		44256x4 or 44256x2	
J21	Out		44256x8	
J22	1-2*		Enable VGA IRQ9	

## Elpina

Ability Electron Co. [www.ability-tw.com](http://www.ability-tw.com) see Ampttron

## ENPC

[www.enpc.com.tw](http://www.enpc.com.tw) [www.enpcusa.com](http://www.enpcusa.com)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	EP PT11	HC-00	EP PT11
BC	KL-21		

## EPoX

Formerly Soltek. [www.epox.com](http://www.epox.com). See also Pronix

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	PP6-NF/NB	AC	P55-TH/P54C-SP
9C	P55-IT	AC-00	P55TX2/BT/KV/VP
9C-00	P55TV/TX/VX/VP	CC-00	P55TV2
9C-00	EP 58MVP3C-m	EC	KP6-FX/FX2
0C-00	P55-TF	HC	P55-IT
1C-00	P55-IT	IC	P55-IT
1-00/02	P54C-SP	JC	P55-IT
3C	P55-SA	KC	P55-IT
4C-00	GXA 486SPM	LC	P55-IT UMC I/O
AC	KP6-LA/PP6-NS (PPro)	MC	P55-IT Winbond I/O

### EP-3VCA2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds (MHz)	800/533	133 FSB
Chipset	VIA Apollo Pro 133A	UDMA 66
BIOS	Award	
Bus	5 PCI 1 ANR	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Audio	VIA VT82C686A	

### EP-3WXA4

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Chipset	Intel 810	
Bus	5 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

### EP-6CXA2C

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	820	
BIOS	Award 4.51PG	
Bus	5 PCI/1 ISA	UDMA/66 66-133
Memory (Mb)	1024 Mb	2 RIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video	AGP	
Comments	CMi8738 sound. Good performance	

### EP-6VBA

Item	Description	Notes
Form Factor	ATX	

Item	Description	Notes
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	550	
Chipset	Via Apollo Pro Plus	
BIOS	Award 4.51PG	
Bus	5 PCI/1 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Comments		2 year warranty

### *EP-GXB-M*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Xeon	SMP Slot 2
Chipset	Intel 440GX	
Bus	5 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x

### *EP-MVP3G2*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Super Socket 7
Cache	1 Mb	
Chipset	Via MVP3	
BIOS		
Bus	5 PCI/2 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x

### *P2-112A*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	550/366	
Chipset	Via Apollo Pro	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	124 MHz
Memory (Mb)	384 Mb	3 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Performance		Similar to Soyo SY-6BA+

### *P55-TH*

Same as Astar P55-TH

### *P55-VP*

Same as California Graphics Sunray VIA

## Epson UK

**AX Portable**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J1,2	<b>J1</b>	<b>J2</b>	
	A	A	Reserved
	A	B	128K ROMs
	B	A	512K ROMs
J3,4	B	B	256K ROMs
	<b>J3</b>	<b>J4</b>	
	A	A	640K base memory
	A	B	Reserved
J5	B	A	512K base memory
	B	B	256K base memory
	A		1 ROM wait state inserted
	B		2 ROM wait states inserted
J6,7	<b>J6</b>	<b>J7</b>	
	A	A	1 16-bit ext RAM wait state inserted
	A	B	2 16-bit ext RAM wait states inserted
	B	A	3 16-bit ext RAM wait states inserted
J8,9	B	B	4 16-bit ext RAM wait states inserted
	<b>J8</b>	<b>J9</b>	
	A	A	8 MHz 80287
	A	B	Reserved
J10	B	A	Reserved
	B	B	Reserved
	In		USA character set
	Out		Danish character set
S1,2	<b>S1</b>	<b>S2</b>	
	Off*	Off*	No expansion RAM
	Off	On	Reserved
	On	Off	2 Mb expansion RAM
	On	On	4 Mb expansion RAM

**Switch 1**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	Off	Normal LCD
	On	Reverse video LCD
S2	On	LCD greyscale switch 1
S3	On	LCD greyscale switch 2
S4	On	LCD display
	Off	CRT display

**Switch 2**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	On	External floppy select
	Off	Parallel printer port select
S2	On	External floppy = A
	Off	External floppy = B
S3	On	Enable COM2
	Off	Enable COM1
S4	On	Double-width LCD fOnt
	Off	Normal width LCD fOnt
S5	On	Enable internal video
S6	On	Add-in video is colour
	Off	Add-in video is Mono

**PC AX**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J1	A-C*	CPU clock 6/8/10
	B-C	Inhibit



<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J2,3	<b>J2</b> <b>J3</b>		
	A-C*	A-C	Reserved
	B-C	A-C	CPU clock as NPX clock (1/3)
	A-C	B-C*	8 MHz AS npx CLOCK
	B-C	B-C	Reserved
J4	A-C*		2 wait cycles for EPROM access at 10 MHz
	B-C		1 wait cycles for EPROM access at 10 MHz
J5,6	<b>J5</b> <b>J6</b>	<b>Device access</b>	
	A-C*	A-C*	4 wait cycles for ext 16-bit device access at 10 MHz
	B-C	A-C	3 wait cycles for ext 16-bit device access at 10 MHz
	A-C	B-C	2 wait cycles for ext 16-bit device access at 10 MHz
	B-C	B-C	1 wait cycle for ext 16-bit device access at 10 MHz

### PC AX2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J1	A	1 wait cycle for EPROM access	
	B	2 wait cycles for EPROM access	
J2,3	<b>J2</b> <b>J3</b>	<b>Device access</b>	
	B	B	4 wait cycles for ext 16-bit expansion bus DRAM
	A	B	3 wait cycles for ext 16-bit expansion bus DRAM
	B	A	2 wait cycles for ext 16-bit expansion bus DRAM
	A	A	1 wait cycle for ext 16-bit expansion bus DRAM
J4,5	<b>J4</b> <b>J5</b>		
	A	A	NPX clock speed=8 MHz
	A	B	Reserved
	B	A	Reserved
	B	B	NPX clock=2/3 CPU speed

### PC AX3-25

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J1	1-2	Enable HD	
J3,10	<b>J3</b> <b>J10</b>	<b>System clock speed</b>	
	1-2*	1-2*	25 MHz
	2-3	2-3	24 MHz
J5	1-2	512K (Dip sw 8 must be Off)	
	2-3	256K (Dip sw 8 must be On)	
J6	1-2*	CPU reset time 16CLK2	
	2-3	CPU reset time 256CLK2	
J7	1-2	82385 reset time as CPU (J6=1-2)	
	2-3*	82385 reset time as system reset	
J8	1-2	IRQ 12 to mouse	
	2-3	IRQ 12 available to system bus	
J9	1-2*	Enable password	
	2-3	Disable (reset)	

### Switches

<i>Switch</i>	<i>Position</i>	<i>Function</i>						
S1,2	<b>S1</b> <b>S2</b>	<b>Base memory</b>						
	Off	Off	256K					
	On	Off	512K					
	On*	On*	640K					
S3-7	<b>S3</b> <b>S4</b> <b>S5</b> <b>S6</b> <b>S7</b>	<b>Bk3</b> <b>Bk2</b> <b>Bk1</b> <b>Bk0</b> <b>Total</b>						
	Off	Off	Off	Off	Off	1Mb	1Mb	1Mb
	On	On	On	On	On	1Mb	1Mb	2Mb

Switch	Position					Function				
	On	Off	Off	On	Off	1Mb	1Mb	1Mb	3Mb	
	On	Off	On	On	Off	1Mb	1Mb	1Mb	4Mb	
	Off			Off	On				4Mb	
	On	On	Off	On	Off		4Mb	1Mb	1Mb	6Mb
	On			Off	On			4Mb	4Mb	8Mb
	On	Off	Off	On	On		1Mb	4Mb	4Mb	9Mb
	On	Off	On	On	On	1Mb	1Mb	4Mb	4Mb	10Mb
	On	On	On	On	Off	4Mb	4Mb	1Mb	1Mb	10Mb
	On	On	Off	On	On		4Mb	4Mb	4Mb	12Mb
	On	On	On	On	On	4Mb	4Mb	4Mb	4Mb	16Mb
S8	Off					512K ROM				
	On					256K ROM				
S9	On					80ns DRAM, 4 wait states				
	Off					100ns DRAM, 5 wait states				
S10	Off					CGA monitor				
	On					Mono monitor				

PC Portable

Front Panel Switches

Switch	Position		Function
S1	On		Normal LCD
	Off		Reverse LCD
S2,3	<b>S2</b>	<b>S3</b>	<b>LCD Screen Mode</b>
	On	On	0
	Off	On	1
	On	Off	2
	Off	Off	3
S4	On		LCD
	Off		External CRT

Rear Panel Switches

Switch	Position	Function
S1	On	External floppy
	Off	Parallel printer
S2	On	External floppy is B
	Off	External floppy is A
S3	On	1 floppy
	Off	2 floppies
S4	On	Serial port is secondary (378-3FFh)
	Off	Serial port is primary (2F8-2FFh)

Jumpers

Jumper	Position		Function
J1	<b>SHB</b>	<b>SHA</b>	<b>RAM Speed</b>
	L	L	125ns
	L	H	250ns
	H	L	375ns
	H	H	500ns
J2	A		64/128K System ROM
	B		256K System ROM
J3	<b>HSPD</b>	<b>WSO</b>	
	Out	*	0 wait states
	In	In	0 wait states
	In	Out	1 wait state
J4	<b>-V</b>	<b>EQ1</b>	<b>CPU select</b>
	In	In	8088
	In	Out	8086
	Out	In	V20

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
	Out	Out	V30
J5	A		Floppy LED installed
	B		HD installed

## PC

<i>Switch</i>	<i>Position</i>					<i>Function</i>
J1	In					8087 installed
J2,3						Reserved
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Total</b>
S1-5	On	Off	Off	Off	Off	256K
	Off	Off	Off	On	On	288K
	On	On	On	Off	On	320K
	Off	On	On	Off	On	352K
	On	Off	On	Off	On	384K
	Off	Off	On	Off	On	416K
	On	On	Off	Off	On	448K
	Off	On	Off	Off	On	480K
	On	Off	Off	Off	On	512K
	Off	Off	Off	Off	On	554K
	On	On	On	On	Off	576K
	Off	On	On	On	Off	608K
	On	Off	On	On	Off	640K
S6,7	<b>S6</b>	<b>S7</b>				<b>Display type</b>
	Off	Off				Mono
	On	Off				Colour 80x25
	Off	On				Colour 40x25
	On	On				Reserved
S8	On					1 floppy
	Off					2 floppies
S9	Off					Disable serial port
S10	Off					Serial port on RS232 card

## PC+

### Switch 1

<i>Switch</i>	<i>Position</i>		<i>Function</i>
S1	On		A=360K
	Off		A=1.2Mb
S2	Off		Maths copro installed
	On		Not installed
S3			Reserved
S4	Off		Parallel is primary
	On		Parallel is secondary
S5,6	<b>S5</b>	<b>S6</b>	<b>Display type</b>
	On	On	Internal video disabled
	Off	On	Colour mode 40x25
	On	Off	Colour mode 80x25
	Off	Off	Mono
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies</b>
	On	On	1
	Off	On	2

### Switch 2

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1		Reserved
S2		Reserved

Switch	Position	Function	
S3		Reserved	
S4		Reserved	
S5	Off	Enable parity checking	
	On	Disable parity checking	
S6		Reserved	
S7	Off	Primary internal serial interface	
	On	Secondary internal serial interface	
S8	Off	Enable internal serial interface	
	On	Disable internal serial interface	
J1,2	<b>J1</b>	<b>J2</b>	
	1-2	1-2	Invalid setting of DACKO of 8237
	2-3*	2-3*	Valid setting of DACKO of 8237

## PCE

Switch	Position	Function
J1	A	Enable floppy
	B	Disable floppy
J2	A	Parity RAM not installed
	B	Parity RAM installed
J3	A	BIOS ROM 128/64K
	B	BIOS ROM 256K

## Switch 1

Switch	Position	Function	
S1	On	Unenhanced keyboard	
	Off*	Enhanced keyboard	
S2	On*	NPX not installed	
	Off	NPX installed	
S3,4	<b>S3</b>	<b>S4</b>	<b>RAM Size</b>
	On	On	256K
	Off	On	512K
	On	Off	576K
	Off*	Off*	640K
S5,6	<b>S5</b>	<b>S6</b>	<b>Display Type</b>
	On	On	Reserved
	Off	On	Colour 40x25
	On	Off	Colour 80x25
	Off*	Off*	Mono
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies</b>
	On*	On*	1
	Off*	On*	2
	On	Off	3
	Off	Off	4

## Switch 2

Switch	Position	Function	
S1,2	<b>S1</b>	<b>S2</b>	
	On	On	Disable parallel port
	Off	On	LPT3 IRQ7 enabled
	On	Off	LPT2 IRQ7 enabled
	Off*	Off*	LPT1 IRQ7 enabled
S3,4	<b>S3</b>	<b>S4</b>	
	On	On	Disable serial port
	Off	On	Disable serial port
	On	Off	COM2 IRQ3 enabled
	Off*	Off*	COM1 IRQ4 enabled

## EL2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	A*	Enable password
JP2	A*	Auxiliary device has IRQ12
	B	IRQ12 available to other devices
JP3		Reserved
JP4	In*	HD I/O channel On
JP5		Reserved
JP6		Reserved
JP7	A*	IRQ9 available to other devices
	B	IRQ9 assigned to video
JP8	A	HMD549 default setting for 40 Mb HD
	B	Other HDC-embedded HDs (20 Mb)
JP9	A	256K EPROM
	B	512K EPROM

## EL3-33

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	A*	Enable password
	B	Disable password
JP2	A*	Auxiliary device has IRQ12
	B	IRQ12 available to other devices
JP3		Reserved
JP4	In*	HD I/O channel On
	Out	HD I/O channel Off
JP5		Reserved
JP6		Reserved
JP7	A*	IRQ9 available to other devices
	B	IRQ9 assigned to video
JP8	A*	Enable HD
	B	Disable HD
JP9	A*	Enable internal VGA
	B	Disable internal VGA
JP10	A	2 wait states of 16-bit device on exp bus
	B*	1 wait state
JP11		Reserved

## EL3S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	A	Enable password
	B	Disable password
To reset password set J1 to B and turn power Off, then On, then Off. Set J1 to A.		
JP2	A*	Auxiliary device has IRQ12
	B	IRQ12 available to other devices
JP3		Reserved
JP4	A*	Enable I/O channel assignment
	B	Disable I/O channel assignment
JP5		Reserved
JP6		Reserved
JP7	A*	IRQ9 available to devices in option slot
	B	IRQ9 assigned to video

## CPU Board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP8	A*	NPX not installed

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	B	NPX installed
JP9	A*	Enable HD
	B	Disable HD
JP10	A*	VGA colour enabled
	B	VGA colour disabled
JP11	A	2 wait states of 16-bit device on exp bus
	B*	1 wait state
JP12		Reserved
JP13	A	256K ROM
	B*	512K ROM

#### Video Board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP1	A	Turbo disabled	
	B	Turbo enabled	
JP2	A	Write buffer disabled	
	B	Write buffer enabled	
JP3,4	<b>JP3</b>	<b>JP4</b>	<b>Data Transfer Rate</b>
	A	A	16-bit
	A	B	Reserved
	B	A	Reserved
	B	B	8-bit

#### EL3s+

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP12	A	NPX not installed
	B	NPX installed
JP13		Reserved
JP14	A*	Video BIOS duplicated at C0000h
	B	Not duplicated
JP15	A*	Bus wait state for HD access=2
	B	Bus wait state for HD access=1
JP16	Out*	DRAM parity Off

#### Multi I/O board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	A	Disable HD
	B*	Enable HD
JP2	A	Disable ROM setup
	B*	Enable
JP3	A	Enable floppy write protect
	B*	Disable
JP4	A	Erase CMOS password
	B*	Enable CMOS password
JP5	Out*	Reserved
JP6	In*	I/O channel ready On
	Out	I/O channel ready Off
JP7		Reserved
JP8		Reserved
JP9	A	DS1287 fitted
	B*	Not fitted
JP10	A	Video interlaced
	B*	Not interlaced
JP11		Reserved
JPT	Out	Power supply auto fan control
	In*	Disable

### EL4s

Jumper	Position	Function
JP12	In	2 wait states of 16-bit device on exp bus
	Out*	1 wait state
JP13	In*	AT bus clock is $\frac{1}{2}$ CPU clock
	Out	Enables JP15
JP14	In*	20 MHz CPU
	Out	Reserved for 33 MHz 80486
JP15	In*	AT bus clock is $\frac{1}{3}$ CPU clock
	Out	AT bus clock is $\frac{1}{4}$ CPU clock
JP16	A*	486SX
	B	486DX
JP17	A*	486SX
	B	486DX
JP18	A*	486SX
	B	486DX

### EISA TE/DE

Jumper	4	Function
J1	2-3*	Password Enabled

### Equity 486SX/25+

Jumper	Position	Function
JP1	A	487SX installed
	B*	486SX installed
JP2	A	487SX NMI signal
	B*	486SX NMI signal
JP3	A	487SX FERRsignal
	B*	486SX FERR signal
JP4	A*	Enable VGA
	B	Disable
JP5	A*	Power on password enabled
	B	Disabled
JP6	A*	Colour display
	B	Mono display
JP7	A*	Mouse enabled
JP8-12	<b>Memory</b>	<b>JP8</b> <b>JP9</b> <b>JP10</b> <b>JP11</b> <b>JP12</b>
	4 Mb*	B    B    B    B    A
	8 Mb	B    B    B    A    A
	9 Mb	A    B    B    A    A
	10 Mb	A    A    B    A    A
	12 Mb	A    B    A    A    A
16 Mb	A    A    A    A    A	
JP13,14	<b>JP13</b> <b>JP14</b>	<b>Base Memory</b>
	A    A	640K*
	B    A	512K
JP15	B    B	256K
	A	Early I/O ready signal enabled
	B*	Normal I/O ready signal

### Equity 486DX2/50+

As for Equity 486SX/25+

### Eupacomputer

www.eupacomputer.com

## Eurone LA

www.eurone.com

## M919

Item	Description	Notes
Chipset	UMC 8881/8886	
BIOS	AMI WinBIOS	
Bus	3 PCI/4 ISA/1 VESA	
I/O	2S, 1P	
Problems		Look for v1.5 or 3.4, or make sure cable pinouts are correct. Use identical Memory (Mb) SIMMs
Comments		Possibly manufactured by PC Chips. V 1.x same as Amtron DX-9500 and v3.x same as DX-9700.

## Cache Settings

## 1 bank

	Config	JP8	JP8	JP8	JP8	JP9A	JP9B	JP9C	JP9D
512K	128Kx8	1-2	3-4	5-6	7-8	Off	On	On	On
256K	64Kx8	1-2	3-4	5-6		Off	Off	On	On
128K	32Kx8	1-2	3-4			Off	Off	Off	On

## 2 banks

	Config	JP8	JP8	JP8	JP8	JP9A	JP9B	JP9C	JP9D
1024K	128Kx8	2-3	4-5	6-7	8-9	On	On	On	On
512K	64Kx8	2-3	4-5	6-7		Off	On	On	On
256K	32Kx8	2-3	4-5			Off	Off	On	On
128K	16Kx8	2-3				Off	Off	Off	On

## Everex

## 286

Jumper	Position		Function
SW1	<b>S1</b>	<b>S2</b>	<b>8-bit slot wait states</b>
S1,2	On	On	3
	On	Off	4
	Off	On	5
	Off	Off	3
SW1	<b>S1</b>	<b>S2</b>	<b>16-bit slot wait states</b>
S3,4	On	On	0
	On	Off	1
	Off	On	2
	Off	Off	0
SW2	<b>S2</b>	<b>S3</b>	<b>S4</b>
S2,-4	On	On	On
	On	On	Off
	Off	On	On
	On	Off	Off
	Off	On	Off
	Off	Off	Off
W3	On		Adds wait state
W12,13	<b>W12</b>	<b>W13</b>	<b>Coprocessor speed</b>
	1-2	1-2	10 MHz copro
W15	Off		286/16 using 60 ns RAM
	On		286/16 using 80 ns RAM



### 386 (Rev D)

Jumper	Position	Function
W3	In	Maths copro installed
	Out	Not installed
W14	In	STEP UP not installed
	Out	STEP UP installed
W15	In	256Kx9 installed
	Out	1Mbx9 installed
W16	In	512K base memory
	Out	640K base memory
W17	In	Bus speed 6.7 MHz
	Out	Bus speed 10 MHz

### 386 (Rev E)

Jumper	Position	Function
W3	In	Maths copro installed
	Out	Not installed
W14	In	STEP UP not installed
	Out	STEP UP installed
W15	In	256Kx9 installed
	Out	1Mbx9 installed
W16	In	512K base memory
	Out	640K base memory
W17	In	Bus speed 6.7 MHz
	Out	Bus speed 10 MHz
W20	In	Disable STEP UP parity checking
W21	In	1 bank memory
	Out	2 banks memory

### AGI 286-12

Jumper	Position	Function
W2	6 In*	8-bit access 6 wait-states
W3	2 In*	16-bit access 2 wait-states
W6	3-4 In	512K RAM
	3-4 Out	1Mb RAM
W7	2-3*	Reserved
W8	2-3*	Reserved

### AGI 386-12

Jumper	Position	Function							
S1-8	<b>Bootup Sequence</b>	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>
	1Mb memory	Off	On	Off	Off	Off	N/A		
	8 MHz boot speed				Off	N/A	On		
	16 MHz boot speed				Off	N/A	Off		
	Mono display				Off	N?A		Off	
	Colour display				Off	N/A		On	
J5	1-2	10 MHz 80287							
	2-3	6 MHz 80287							

### AGI 386-20

Jumper	Position				Function
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Mobo memory 32-bit card</b>
	On	On	On	On	1Mb + 0
	Off	On	On	On	1Mb + 4

Jumper	Position				Function
	Off	Off	On	On	1Mb + 8
	Off	Off	Off	On	1Mb + 14
W1	1-2				4 wait states for 8-bit cycle
	2-3				5 wait states for 8-bit cycle
W2	1-2				2 wait states for 16-bit cycle
	2-3				1 wait state for 16-bit cycle

## EV 1800

Jumper	Position				Function
W1	<b>S1</b>	<b>S2</b>			<b>Total RAM</b>
S1-2	On	On			256K
	On	Off			512K
	Off	On			640K
	Off	Off			1Mb
W2	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>EPROM size</b>
S1-4	On	On	Off	Off	128K EPROM
	Off	Off	On	On	256K EPROM

## EV 1801

Jumper	Position				Function
W1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>EPROM size</b>
S1-4	On	On	Off	Off	128K EPROM
	Off	Off	On	On	256K EPROM
W1	On				Zero wait-state
S5	Off				16-bit wait-state set by W12
W1	Off*				Reserved
S6					
W1	<b>S7</b>	<b>S8</b>			<b>Total RAM</b>
S7-8	On	On			256K
	On	Off			512K
	Off	On			640K
	Off	Off			1Mb
W4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Parallel Port</b>
S1-4	On	Off	On	Off	LPT1*
	On	On	Off	On	LPT2
	Off	Off	Off	Off	Disable
W7,12	<b>W7 (8-bit)</b>	<b>W12 (16-bit)</b>			<b>Wait-state</b>
			1		1
			2*		2
			3		3
	4*		4		4
	5				5
	6				6
W8,11	<b>W8</b>	<b>W11</b>			<b>Maths Coprocessor</b>
	B	B			5 MHz 80287
	A	A			8 MHz 80287
	A	B			10 MHz 80287
W9					Reserved
W10					Reserved
W13					Reserved
W14	<b>A</b>	<b>B</b>			<b>COM1/3</b>
	On	On			COM1
	On	Off			COM3
	Off	On			Disable
	<b>C</b>	<b>D</b>			<b>COM2/4</b>
	On	On			COM2
	On	Off			COM4
	Off	On			Disable

Jumper	Position	Function
W16		Reserved

### EV 1811

Jumper	Position	Function
SW1	<b>S1</b> <b>S2</b> <b>S3</b> <b>S4</b>	<b>EPROM size</b>
S1-4	On    On    Off    Off	128K EPROM
	Off    Off    On    On	256K EPROM
SW2		Colour/Mono
E2	<b>S1</b> <b>S2</b>	<b>Total RAM</b>
S1-2	On    On	256K
	On    Off	512K
	Off    On	640K
	Off    Off	1Mb
E3		Reserved
E9		Reserved
E12		Reserved
E13		Reserved
E20		Reserved
E21-23	<b>E21</b> <b>E22</b> <b>E23</b>	<b>Hard/Floppy Disk Controller</b>
	On    On    On	Enable
	Off    Off    Off	Disable
E24		Reserved

### Step 286-12/16

Jumper	Position	Function
SW1	<b>S1</b> <b>S2</b>	<b>8-bit slot wait states</b>
S1,2	On    On	3
	On    Off	4
	Off    On	5
	Off    Off	3
SW1	<b>S1</b> <b>S2</b>	<b>16-bit slot wait states</b>
S3,4	On    On	0
	On    Off	1
	Off    On	2
	Off    Off	0
SW2	<b>S2</b> <b>S3</b> <b>S4</b>	<b>Total RAM</b> <b>Bank 0</b> <b>Bank 1</b>
S2,-4	On    On    On	512K    256K    256K
	On    On    Off	1Mb    256K    256K
	Off    On    On	2Mb    1Mb    256K
	On    Off    Off	2.5Mb    256K    1Mb
	Off    On    Off	2.5Mb    1Mb    256K
	Off    Off    Off	4Mb    1Mb    1Mb
W3	In	Adds wait state
W4-11		Reserved
W12,13	W12    W13	Coprocessor speed
	1-2    1-2	10 MHz
W15	Out	286/16 using 60 ns RAM
	In	286/16 using 80 ns RAM
	In	286/12

### Step 386/20/25/33

Jumper	Position	Function
P1	In	256K cache
	Out	128K cache

### Step 386-20 (Rev D)

As for 386 (Rev D).

### Step 386-20 (Rev E)

As for 386 (Rev E).

### Step 386sx 20

Jumper	Position	Function
JP3	Out*	Enable cache light
JP8	In	512K EPROM
	Out*	256K EPROM
J9	1-2	82C711 chip floppy selector

### Tempo 286-16c

Jumper	Position	Function
JP2	1-2,5-6,7-11	Reserved
JP4	3-4,10-11	Reserved
JP5	2-3,4-5	Reserved
JP9	On*	Enable video
	Off	Disable

### Tempo 386sx

Jumper	Position	Function		
P2-4	<b>P2</b>	<b>P3</b>	<b>P4</b>	<b>Total RAM</b>
	Out	In	In	512K
	In	Out	In	1Mb
	Out	Out	In	2Mb
	Out	In	Out	2Mb
	In	Out	Out	4Mb
	Out	Out	Out	8Mb
P5	In			ROM 3 wait-states
	Out*			ROM 2 wait-states
P6	In*			0 wait states RAM Read
	Out			1 wait state RAM Read
P7	In*			0 wait state RAM Write
	Out			1 wait state RAM Write
P8	In*			Disable shadow RAM

### Tempo 386-25/33c

Jumper	Position	Function	
SW1	<b>S1</b>	<b>S2</b>	<b>Monitor Type</b>
S1-2	On	On	Super multifrequency
	Off	On	Multifrequency
	On	Off	Super VGA
	Off	Off	VGA, IBM, PS/2 and 8514
JP1			Floppy type
JP2	1-2		Enable IRQ2
	5-6		Enable Onboard video

### Expert

www.expertcom.com



*Notes*

## Famous Technology

Magic pro. [www.magic-pro.com.hk](http://www.magic-pro.com.hk)

## Fentech

See Taemung/Fentech

## Ferranti

### 2086

#### Links

Link	Position	Function
1	On	512K
	Off	640K
2	On	CGA
	Off	Mono
3		Reserved
4		Not used
5		Not used
6	On	8 MHz
	Off	6 MHz
7		Always on

## FIC

First International Computer. [www.fica.com](http://www.fica.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
00-00	486 PVT, VIP-IO/IO2, 486GVT2	9C	PA 2012/VA 503+ or PA 2013

Code	Motherboard	Code	Motherboard
2C-00	PN 2000	9C	PA 2002/2005
8C	PA 2005 (Vobis)/2006/VA501/2	9C-00	PT 2006/2007/VT 530
8C	PA 2007	H	PT 2003/PA 2000
9	PA 2002/2005	H-00	PT 2000
9-00	PA 2000	HC-00	PT 2000 or 2003/PA 2000

### CPII2

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Chipset	Intel 440ZX	
Bus	5 PCI/2 ISA	UDMA/33
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	
Video		AGP

### KA-6100

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II/Celeron	Slot 1
Chipset	VIA Apollo Pro	
BIOS	Award 4.51PGMA	
Bus	3 PCI/2 ISA	1 each shared
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB	
Audio	Yamaha OPL3-6AX	
Video		AGP
Performance		Slow, but still faster than the ECS P6BX-A+

### KA-6110

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	900	If slot 1 survives
Chipset	VIA Apollo Pro Plus	
BIOS	Award 4.51PGMA	
Bus	5 PCI/2 ISA	1 each shared UDMA/66 (33 cable)
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB	
Audio	Yamaha OPL3-6AX	
Video		AGP

### PA-2012

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Socket 7
Speeds (MHz)	366 MHz	
Chipset	VIA VP3	
BIOS		
Bus	4 PCI/2 ISA	
Memory (Mb)	384 Mb SDRAM 768 Mb EDO	3 DIMM sockets
Cache (K)	1 Mb	
Video		AGP
Performance		Fast



### SD11

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Speeds (MHz)		
Chipset	AMD 751/VIS 686A	
BIOS	AMI	
Bus	5 PCI/1 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy	
Video		AGP
Performance		Fast

### VB-601

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	450	
Chipset	440 BX	
BIOS	Award 4.51PGMA	
Bus	5 PCI/2 ISA	1 each shared
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Average

### VL-601

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	333 MHz	
Bus	5 PCI/2 ISA	
Memory (Mb)	384 Mb SDRAM	3 DIMM sockets
Video		AGP
Performance		Bus speed 66 MHz. Fair performance.
Problems		Removal of SDRAM means removing AGP card.

## Fine-Pal Company

[www.finepal.com](http://www.finepal.com)

## Firenze

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	486 VL.VII		

### 486 VL.VII

Maybe Genoa or Freetech models

## First International Computer

See FIC

## Fittec

[www.spiderwebhk.com/fittec](http://www.spiderwebhk.com/fittec)

## FKI

See Fong Kai Industrial

## Flagpoint

Some association with Vtech.

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	FPM P5VX		
BC-00	Road Runner VIA 512K		

## Flamingo

Something to do with Lucky Star?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC-00	MB-FLM-TX01		
FC	5I-VX1C		

### *MB-FLM-TX01*

Same as Lucky Star 5ITX1

### *5I-VX1C*

Same as Lucky Star P54CE

## Flexus

## Flytech

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC-00	A47 Green PC		

## Fong Kai Industrial

[www.fkusa.com](http://www.fkusa.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC-00	SL586VT-II		

### SL 586V

Rev 1.1

Jumper	Position	Function
J7/8		EPR0M Voltage
J9-10	<b>J9</b>	<b>J10</b>
	On	On
	On	Off
	Off	On
J11		CMOS Clear
J13-14	<b>J13</b>	<b>J14</b>
	Off	Off
	On	Off
	Off	On
	On	On
A-E	A	3.5v
	B	3.3v
	C	3.2v
	D	2.9v
	E	2.8v
	Off	2.5v

### SL 586VT-II

Same as Winco SL 586VT-2

### Fordlian

See also RedFox

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	6IFXA	AC	5IVXB
AC	FL51HXA	BC	5ITXA rev A
AC	5IVXA		

### 5IVXA

Same as Aprocom Nex586v

### Formosa

### Freetech

Free Computer Technology [www.freetech.com](http://www.freetech.com) May make boards for AMP

If there is no FAB # underneath, it is not a Freetech motherboard.

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0-01	486F38X	CC-00	586F63T
9C	586F62	DC-00	586F60
AC	P586F62T	HC	586F52
AC	586F63T	HC-00	486F55
BC-00	586F60	NC(-00)	586F61(-PB)
CC	P5F76 (Falcon)	NC-01	586F52XS ver D

### 486F38(X)

X model same as Genoa 486VLGX4

### CPU Clock

Speed (MHz)	JP20	JP19	JP17
25	On	Off	On
33*	Off	On	On
40	On	Off	Off
50	Off	On	Off

### L2 Cache Size

Size (Kb)	JP12	JP21	Tag	Data
128	1-2	Off	8K8	32K8x4
256*	2-3	Off	16K8	32K8x8
256	1-2, 3-4	Off	16K8	64K8x4
512	2-3, 4-5	On	32K8	64K8x8
512	1-2,3-4	On	32K8	128K8x8

### 486F39

As for 486F38

### 486F41

As for 486F38

### P5F76

Activei?

### Freeway

[www.freeway.co.jp](http://www.freeway.co.jp)

### Fugutech

Fugu Tech Enterprise Co. [www.fugu.com](http://www.fugu.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C	M530	9C	M701
2C(-00)	M 505/Neptune DP	HC	M 507
4C	M507		

### *M507*

Aka Concord COA-507, ATC 1000 or Amptron PM 7600

### *M530*

Aka Concord COA-530

### Full Yes International

See FYI

### FYI

Full Yes Industrial Corp. [www.fyi.com.tw](http://www.fyi.com.tw)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	82430VX P55C (SMC)	BC	82430VX P55C/MMX
AC	FYI VIA 597	C-00	FYI 597
AC	82430VX P55C (UMC)		

### *82430VX P55C*

UMC chipset. Same as BJMT Nimble VX

*Notes*



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## Gateway

See ALR

## Gemlight

[www.gemlight.com.hk](http://www.gemlight.com.hk) [www.gemlight.com](http://www.gemlight.com)

Makes DTK boards

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	GMB 486SG	9C	GMB P56IPS
2	GMB P54SPS	A	GMB P54SPS P54C PCI
2C	GMB P54SPS	AC-00	GMB P54SPV/P56SPC
31C	GMB 486SPS	JC	GMB P54PSI
32	GMB 486SPS	KC	GMB P54PSI v1

### *GMB-P54PSI*

Same as DTK PAM 00541-E1?

### *GMB-P57SAX*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds	233 MHz	
Chipset	SIS	50-75 MHz

## Genoa

Genoa Systems Corp. [www.genoasys.com](http://www.genoasys.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	Turbo Express 586HX v T1B		

### 486VLGX4

Same as Freetech 486F38X

### Turbo Express PII

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Memory (Mb)	512 Mb SDRAM 1 Gb EDO	4 DIMM sockets
Video		AGP
Performance		Fastish
Comments		Poor layout

### Turbo Express 586HX v T1B

Actually a Freetech P586F62T - same as Genoa Turbo Express 586HX v T1B

## G-host

### G486PLB

Jumper	Position	Function				
JP1	On	Colour				
	Off	Mono				
JP2	1-2	External power good				
	2-3	Internal power good				
JP3	1-2	Discharge CMOS				
	2-3	Charge CMOS				
JP5-9	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>	<b>Cache size</b>
	Off	Off	Off	Off	Off	64K
	On	On	Off	On	Off	256K
JP10-12	1-2*					W/B dirty bit – leave On
JP14-16	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>			<b>CPU type</b>
	On	1-2	2-3			486DX
	Off	2-3	Off			486SX
	On	1-2	1-2			487SX
JP100	On					Local bus video card is G-HOSTS3/ISA
	Off					Local bus video card is G-HOST4000

## Giantec

## Gigabyte

www.gbt-tech.co.uk www.giga-byte.com www.gigabyte.com.tw

### Award BIOS ID

The last two numbers of the BIOS part number.



Code	Motherboard	Code	Motherboard
02-00	GA 586AP rev2	AC	GA 6BA
03-00	GA 586AL/S rev 2A	AC	GA 586ATV
1	GA 486VF Rev 8B	BC(-00)	GA 586HX/VX/(ATX)
1-00	GA 486 IM or 486VS	DC-00	GA 586TX3
1C-00	GA 586IP v1.6	HC	GA 586AT/T2 or 486AM/S
3	GA 486AM	IC	GA 586AT
9C	GA 686BX/LX or 586DX/TX	KC	GA 586ATE/ATM
9C	GA 586AS	NC	GA 586-ATEP
9C-00	GA 586AVS/S	PC	GA 586ATM/P Rev 5 or ATE
9C-00	GA 5486AL		

### GA-486AM

Item	Description	Notes
Form Factor	Baby AT	22 x 25 cm
CPU	486	Intel/Cyrix, including P24
Speeds (MHz)		
Chipset	UMC 888X	
BIOS	Award Flash	V4.50pg
Bus	3 PCI/4 ISA	
Memory (Mb)	128	4 72-pin sockets
Cache (K)	1 Mb	
I/O	2S, 1P, Floppy, EIDE	
Comments		Video card in third PCI slot

### GA-486IM

Item	Description	Notes
Form Factor		
CPU	486	Intel/Cyrix
Speeds (MHz)		
Chipset	UMC 888X	
BIOS	Award Flash	V4.50b
Cache (K)	256	
Problems		Will not boot OS/2 with an NCR controller made by Intel or Asus and a Cardex Challenger in a PCI slot. An S3/864 card will allow booting, but serial ports go undetected, or may work poorly

### GA-486IS

Item	Description	Notes
Form Factor		
CPU	486	SX, DX, DX2, P24T. 5v only.
Speeds (MHz)	25, 33	
Chipset	Saturn I	Rev 2
Bus	4 PCI/ 4 ISA	
Memory (Mb)		4 72-pin SIMMs (parity, non-parity)
Cache (K)	256	
I/O		NCR On-board SCSI

### GA-586AL/S

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	60/66	
Chipset	ALi	
BIOS	Award	
Comments		Doesn't like OS/2

GA-586AP

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75, 90, 100	
Chipset	ALi	
BIOS	Award Green Flash	Supports NCR 53c810-based GA-410 NCR 810 PCI SCSI card
Bus	3 PCI/4 ISA	1 each shared
Memory (Mb)		Up to 6 sockets
Cache (K)	1 Mb	Asynchronous, write-back
I/O	2 S, 1P, Floppy (2.88)	IDE CMD 640

GA-586AT(E)

Item	Description	Notes
Form Factor	½Baby AT	
CPU	Pentium/P54CT	3.3v
Speeds (MHz)	75-133	
Chipset	Triton	
BIOS	Green Flash Award	
Bus	3 PCI/4 ISA	None shared
Memory (Mb)	4-128	Up to 6 72-pin sockets (double/single)
Cache (K)	512	
I/O	2S, 1P, Floppy, 2 EIDE	
Comments		ATE version may not like ATI cards – possible BIOS upgrade to fix. Chipset IDE drivers may not like Warp.

Jumper	Position	Function
A6-7	A6-A7	Single voltage 3.3v CPU
B6-7	B6-B7	Dual voltage 2.5v/3.3v CPU
JP2	Close	VRE spec CPU
	Open	VR or standard spec CPU
JP3	1-2	256K cache
	2-3	512K cache
JP4,5	<b>JP4</b>	<b>JP5</b>
	2-3	2-3
	1-2	1-2
	1-2	2-3
JP6	None	75-100 MHz (CPU 1.5x)
	1-2	120/133 MHz (CPU 2x)
	1-2,3-4	150/166 MHz (CPU 3x)
	3-4	Reserved
		Ver 3.x mainboard
JP6	Close	120/133 MHz (CPU 2x)
	Open	75-100 MHz CPU (CPU 1.5x)
		Ver 2.x mainboard
JP12		Reserved

Connectors

Jumper	Function
J4	Green connector
J5	Green LED
J6	Reset
J7	Turbo Switch
J8	Turbo LED
J9	Speaker
J10	Power LED & Keylock

### GA-586IP

Item	Description	Notes
CPU	P54CT	
Speeds (MHz)	60/90 or 66/100	
BIOS	Award Flash 4.50g	
Bus	4 PCI/4 ISA	All PCI allow busmastering
Memory (Mb)	768	6 72-pin slots
Cache (K)	256 or 512 Kb	
Problems		Add /A:0 /I switches to basedev line of Adaptec 2940 driver. Also, set the Int A jumper on the board itself. Some problems with ATI cards due to PCI slots 0 and 1 being modified.
Comments		

### GA-586SGM

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Socket 7. AMD, Cyrix and Intel
Speeds (MHz)	233	
Chipset	SiS 5591	
Bus	3 PCI/3 ISA	
Memory (Mb)	768	3 DIMM sockets. 3.3 v
Video		AGP
Audio	Yamaha 715E-S	No wavetable
Performance		Slow

### GA-586TX

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Socket 7. AMD, Cyrix and Intel
Speeds (MHz)	233	
Chipset	TX	
BIOS	Award	
Bus	4 PCI/3 ISA	
Memory (Mb)	256	2 DIMM sockets. 3.3 v
Cache (K)	512	

Jumper	Position	Function			
JP 6	On	ATX power supply			
	Off	Normal			
SW 1	On	60 MHz ext clock			
	Off	66 MHz			
Sw 2,3,8	2	3	8	CPU Ratio	
	Off	Off	Off	1.5	
	On	Off	Off	2	
	On	On	Off	2.5	
	Off	On	Off	3	
	Off	Off	Off	3.5	
	On	Off	On	4	
	On	On	On	4.5	
	Off	On	On	5	
	Off	Off	On	5.5	
SW 4-7	4	5	6	7	Voltage
	Off	Off	Off	On	Auto
	Off	Off	Off	Off	2
	Off	Off	On	Off	2.1
	Off	On	Off	Off	2.2

Jumper	Position			Function
	Off	On	On	Off 2.3
	On	Off	Off	Off 2.4
	On	Off	On	Off 2.5
	On	On	Off	Off 2.6
	On	On	On	Off 2.7
	Off	Off	Off	On 2.8
	Off	Off	On	On 2.9
	Off	On	Off	On 3
	Off	On	On	On 3.1
	On	Off	Off	On 3.2
	On	Off	On	On 3.3
	On	On	Off	On 3.4
	On	On	On	On 3.5

### GA-5AX

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Socket 7
Speeds (MHz)	550	Rev 4 up to 400 MHz
Chipset	ALi Aladdin V	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)	512	
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Average.

### GA-686BLX

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium II	Slot 1
Speeds (MHz)	366	
Bus	4 PCI/2 ISA	1 each shared
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets
Video		AGP
Performance		Above average
Comments		AT/ATX power connectors

### DIP Switches

Switch	Position				Function		
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>Ratio</b>	<b>Ext Clk</b>	<b>CPU</b>
	On	Off	On	On	3x	66 MHz	200 MHz
	Off	Off	On	On	3.5	66 MHz	266 MHz*
	On	On	Off	On	4	66 MHz	233 MHz*
	Off	On	Off	On	4.5	66 MHz	300 MHz
	On	Off	Off	On	5	66 MHz	333 MHz
	Off	Off	Off	On	5.5	66 MHz	366 MHz

\*Manual says opposite 66 MHz = JP2, 3, 4 at 1-2

### GA-6BXF

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)	550	
Chipset	440 LX	

Item	Description	Notes
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	1 each shared
Memory (Mb)	1 Gb	4 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	Adaptec AIC-7890 LVD SCSI
Video		AGP
Performance		SCSI good, otherwise average

### GA-6CX

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Chipset	Intel 820	
BIOS	Award 4.51PG	Dual BIOS
Bus	5 PCI/1 AMR	depends on board
Memory (Mb)	RDRAM	2 RIMM sockets
I/O	The usual	
Video	AGP	4x
Performance		Look also at Aopen AX6C or SuperMicro PIIISCE

### GA-6WMM7

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		100 FSB
Chipset	Intel 810	
BIOS	Award	
Bus	3 PCI/1 ISA	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	The usual, plus joystick and audio	
Comments		Secret jumper not in docs for 100 FSB

### GA-6WXM7

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810	
BIOS		
Bus	5 PCI/1 ISA	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	
Audio	Yamaha YMF744BR	

### GA-71X

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Chipset	AMD-750	
BIOS	Award	
Bus	5 PCI/2 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	The usual	
Video		AGP 2x

**GA-7ZXR**

Item	Description	Notes
Form Factor	ATX	
CPU		Socket A
Chipset	Via KT133	
Bus	5 PCI/1 ISA	
Memory (Mb)		3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

**Global Circuit Technologies**

www.gcttech.com

**Award BIOS ID**

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
8C	GCT 8IV	9C-00	MediaGX-GCT
9C	GCT 6IV	EC-00	GCT 8ITB

**GCT 8ITB**

Same as DataExpert ExpertColor TX430II

**Global Impact**

**Award BIOS ID**

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
GC	C586HX		

**C586HX**

Same as DFI G586IPC or Crusader C586HX

**Global Legate**

Zaapa. www.zaapa.com



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## Hewlett Packard

[www.hp.com](http://www.hp.com)

### *Vectra 286-12*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Video IRQ9 disabled
	On	Enabled
S2	Off*	VGA Enabled
	On	Disabled
S3	Off*	Mouse IRQ12 enabled
	On	Disabled
S4	Off*	Power on password enabled
S5	Off*	Option ROMs on backplane enabled
	On	Option ROMs on memory board enabled
S6		Reserved

### *Vectra 386-25*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On*	Power on password enabled
	Off	Disabled
S2	On*	Option ROMs Enabled
	Off	Disabled
S3	On*	Cache memory enabled
	Off	Disabled
S4	On*	I/O channel synchronous 8.3MHz
	Off	I/O channel asynchronous 8MHz
S5	On*	Mouse IRQ12 enabled
	Off	Disabled
S6		Reserved

### *Vectra 386/N*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off*	Mouse IRQ12 enabled

Jumper	Position	Function
	On	Disabled
S2	Off*	Video IRQ9 disabled
	On	Enabled
S3	Off*	VGA Enabled
S4	Off*	Passwords enabled
	On	Disabled
S5	Off*	EPROM information valid
	On	EPROM information erased
S6	Off*	Security mode disabled
	On	Enabled
S7		Reserved

### Vectra 386s-20

As for 386/N, except S8 is reserved.

### Vectra ES

Jumper	Position	Function	
SW1	On	Option ROMs Off	
C1	Off	Option ROMs On	
SW1	On	80287 uses system clock	
C2	Off	80287 system clock divided by 3	
SW2	Both On*	Reserved	
C1-2			
SW3	<b>S1</b>	<b>S2</b>	<b>Base memory</b>
S1-2	On	On	640K
	Off	Off	512K
	On	Off	256K
SW3	On	I/O channel 8 MHz	
S3	Off	I/O channel 12 MHz	
SW3	On	Fast boundary at 640K	
S4	Off	Fast boundary at 512K	
SW3	On	HP-HIL enabled	
S5	Off	HP-HIL disabled	
SW3		Reserved	
S6			
SW4	On	Extended memory up to 000000h	
S1-5			
SW4	On	16-bit boards using MEMCS16 at 8 MHz	
S6	Off	16-bit boards using MEMCS16 at 12 MHz	

### Vectra ES12

As for Vectra ES

### Holco

See Shuttle

### HSB

HSB Computer Labs. [www.hsb-labs.com](http://www.hsb-labs.com)

### MB/MS4144PC100

Item	Description	Notes
CPU	486	Does not work with a DX4-50/100



Item	Description	Notes
Chipset	SiS 85C496/85C497	
BIOS	AMI Green	Non-flash
Bus	3 PCI/4 ISA	None shared
Memory (Mb)	128	72-pin SIMMs
Cache (K)	1 Mb	256 standard
I/O	2 S, 1 P, Floppy, IDE	IDE is Winbond chipset. NCR SCSI controller

## Hsing Tech

See PC Chips

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	Cheetah		

## Hyundai

### Super 286x

Jumper	Position	Function			
A1-2	In*	Enable floppy			
	Out	Disable			
B1-2	In*	Enable HD			
	Out	Disable			
A3-4	In*	Enable LPT1			
B3-4	In*	Enable LPT1			
	Out	Disable			
A4-5	In*	Enable LPT2			
B4-5	In*	Enable LPT2			
	Out	Disable			
A6-7	In*	Enable COM1			
B6-7	In*	Enable COM1			
	Out	Disable			
A7-8	In*	Enable COM2			
B7-8	In*	Enable COM2			
	Out	Disable			
SW1	<b>S1</b> <b>S2</b> <b>S3</b> <b>Base</b> <b>Ext Memory</b>				
S1-3	On	On	On	512K	0K
	Off	On	On	640K	0K
	On	Off	On	640K	384K
	Off	Off	On	640K	1408K
	On	On	Off	640K	3456K
SW1	On*				Colour monitor
S4	Off				Mono

### Super 286E

Jumper	Position	Function			
SW1	<b>S1</b> <b>S2</b> <b>S3</b> <b>Base</b> <b>Ext Memory</b>				
S1-3	On	On	On	512K	0K
	Off	On	On	640K	0K
	On	Off	On	640K	384K
	Off	Off	On	Reserved	
SW1	On*				Colour monitor

Jumper	Position	Function
S4	Off	Mono
W1	On*	Enable HD
	Off	Disable
W2	On*	Enable FD
	Off	Disable
W3,6	1-2*	COM1
	2-3	COM2
	Off	Disable
W4,5	1-2*	LPT1
	2-3	LPT2
	Off	Disable

### Super 286E+

Jumper	Position	Function			
SW2		Reserved			
S1					
SW2	Off	Mono monitor			
S2	On	Colour			
S3-6	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>S6</b>	<b>Parallel port</b>
	On	Off	Off	On	LPT1
	Off	On	On	On	LPT2
				Off	Disabled
S7	On*				Serial port COM2
	Off				Disabled
S8	On*				Serial port COM1
	Off				Disabled
S9	Off*				Enable HD
	On				Disable
S10	Off*				Enable FD
	On				Disable
S11					Reserved
S12					Reserved

### Super 286TR

Jumper	Position	Function
J5	Out*	Mono display
	In	Colour
J9	1-2*	COM1 I/O 3F8
	2-3	COM2 I/O 2F8
	All out	Disable
J7	1-2*	LPT1 I/O 378
	2-3	LPT2 I/O 278
	All out	Disable

### Super 386C

#### Motherboard

Jumper	Position	Function			
J8,9	<b>J8</b>	<b>J9</b>	<b>Printer</b>		
	1-2*	1-2*	LPT1		
	2-3	2-3	LPT2		
J10-13	<b>J10</b>	<b>J11</b>	<b>J12</b>	<b>J13</b>	<b>Serial ports</b>
	1-2	1-2	1-2	1-2	Port 1=COM2, Port 2=COM1
	2-3	2-3	2-3	2-3	Port 1=COM1, Port 2=COM2
J11-12	<b>J11</b>	<b>J12</b>			<b>Serial ports</b>
	1-2	1-2			COM2 at port 1 enabled
	2-3	2-3			COM1 at Port 1 enabled

## CPU Board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMP1	1-2	Mono display
	2-3	Colour
JMP2	In	Enable pipeline
	Out	Disable
JMP3	In	Enable 80387
	Out	Disable

## Super 386D

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
W1	In	8 MHz DMA clock			
	Out	4 MHz DMA clock			
W2,3	<b>W2</b>	<b>W3</b>	<b>Cache size</b>		
			1-2	1-2	64K (16Kx4)
			2-3	2-3	256K (64Kx4)
W4		Reserved			
W6	1-2	Low CPU speed			
	2-3	Reserved			
	All out*	High CPU speed			
W7	In	Mono display			
	Out	Colour display			
W8	1-2	1Mb RAM chips in Bank 1			
	2-3	256K RAM chips in Bank 1			
W9	1-2	1Mb RAM chips in Bank 0			
	2-3	256K RAM chips in Bank 0			
SW1	Both On	Total 32-bit RAM installed			
S1-2					
S3		Reserved			
S4		Enables 2 <sup>nd</sup> bank on motherboard			

## Super 386N

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
S1	On*	80387 installed			
	Off	Not installed			
S2	On*	1 Mb DRAMs			
	Off	256K DRAMs			
S3	On*	2 banks memory (U98-U105)			
	Off	1 bank memory (U98-U101)			
S4	On*	Enable extended memory (384K)			
	Off	Disable			
S5	On*	Colour display			
	Off	Mono			
S6	On*	Enable cache			
S7		Reserved			
S8		Reserved			
E1,2	<b>E1</b>	<b>E2</b>	<b>EPROM</b>		
			1-2	1-2	27256
			2-3	2-3	27512

## Super 386N+

As for Super 386D

*Super 386S/20L*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1	On*	Colour display	
	Off	Mono	
S2,3	<b>S2</b>	<b>S3</b>	<b>Video</b>
	On*	Off*	Enable
	Off	On	Disable
S4	On	Enable 8514	
	Off*	Disable	

*Super 386SE*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On	Half speed I/O cycle (8 MHz)
	Off*	Full speed (16 MHz)
S2	On	Coprocessor installed
	Off*	Not installed
S3	On*	Colour display
	Off	Mono
S4	On	IRQ7
	Off	Not selected
S5	On	IRQ5
	Off	Not selected
S6	On	Enable parallel port LPT2
	Off*	Select parallel port LPT1
S7	On*	Enable parallel port LPT1
	Off	Disable
S8	On*	Enable serial port COM2 (2F8h)
	Off	Disable
S9	On*	Enable COM1
	Off	Disable
S10	On	Disable IDE
	Off*	Enable
S11	Off*	Enable floppy
S12		Reserved

*Super 386ST*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On	IRQ5 enabled
	Off*	Disabled
S2	On	IRQ7 enabled
	Off*	Disabled
S3	On*	HD enabled
	Off	Disabled
S4	On*	Enable COM1
	Off	Disable
S5	On*	Enable LPT1
	Off	Disable
S6	On*	Floppy enabled
	Off	Disabled
S7	On*	Enable COM2
	Off	Disable
S8	On*	CRTC colour mode
	Off	CRTC Mono

### Super 386STC

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On*	Enable COM2
	Off	Disable
S2	On*	Colour video tape
	Off	Mono
S3	On*	Enable parallel port
	Off	Disable
S4	On	Enable HD
	Off*	Disable
S5	On	Disable floppy
	Off*	Enable
S6	On	Enable LPT2
	Off*	Enable LPT1
S7	On*	Enable COM1
	Off	Disable
S8	On	IRQ5 for LPT2
	Off*	Not selected
S12	On*	IRQ7 for LPT1
	Off	Not selected

### Super 386T

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
SW1-2					Reserved
S-4	<b>S4</b>	<b>W8</b>	<b>W9</b>	<b>SIMMs</b>	
W8,9	On	Front	Front	1Mb	
	Off	Rear	Rear	256K	
SW2	Off				Enable COM1
S1	On				Disable
S2	Off				Enable COM2
	On				Disable
S3	Off				Enable LPT
	On				Disable
S4	Off				LPT1
	On				LPT2
SW3	On				IRQ4 for COM1
S1					
S2	On				IRQ3 for COM2
S3	On				IRQ5 for LPT
S4	On				IRQ7 for LPT
W1	On				Fast DMA clock
W2-3	<b>W2</b>	<b>W3</b>		<b>Cache size</b>	
	1-2	1-2		64K	
	2-3	2-3		256K	
W4					Reserved

### Super 486/33i

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
W1	Out*			Reserved
W2,3	<b>W2</b>	<b>W3</b>	<b>Cache size</b>	
	1-2*	1-2*	64K (16Kx4)	
	2-3	2-3	256K (64Kx4)	
W4	1-2*			Reserved
W5	2-3*			Reserved
W6	1-2			Low CPU speed (not used)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	Reserved
	Out	High speed (not used)
W7	In	Mono display
	Out	Colour
W8	1-2*	Reserved
W9	1-2*	Reserved
S1		Enable 2 <sup>nd</sup> bank on motherboard
S2		SIMM type
S3		Total 32-bit RAM
S4		Total 32-bit RAM



## IBM

### IntelliStation

#### 6588

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
A,B	<b>A</b>	<b>B</b>	<b>CPU Speed</b>
	3-5	3-5,4-6	233 MHz
	1-3	1-3,2-4	266 MHz
	1-3	2-4,3-5	300 MHz
A	2-4	FDD read-Only	
	4-6	FDD read/write	
C	2-4	Clear CMOS	
	4-6	Normal CMOS	
	3-5	Reserved	
D	2-4	Setup disabled	
	4-6	Setup normal enabled	
D	1-3	Reset password	
	3-5	Normal password	
Boot Block	5-6*	Normal	
	4-5	Recover	

#### 6888

As for 6588

#### 6899

<i>Switch</i>	<i>Position</i>	<i>Function</i>					
1-6	<b>CPU speed</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
	200 MHz	On	Off	On	On	Off	N/A
7	On*	Enable serial B					
8	Off*	Normal diskette operation					
	On	Diskette Read-only					
J8	1-2*	Password enabled					
	2-3	Disabled (Clear CMOS)					

*Opal*

Alaris Leopard LX 486SLC2 Rev C

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP6	1-2	128K cache
	2-3	64K cache

*PC 300*

6272

<i>Switch</i>	<i>Position</i>				<i>Function</i>
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU speed</b>
	Off	Off	On	On	75 MHz
	Off	Off	On	Off	90 MHz
	Off	Off	Off	On	100 MHz
	On	Off	On	Off	120 MHz
	On	Off	Off	On	133 MHz
	On	On	On	Off	150 MHz
	On	On	Off	On	166 MHz
5	Off*				Reserved
6	Off*				Enable diskette write
	On				Write protected
J6	1-2*				Password enabled
	2-3				Disabled (Clear CMOS)

6282

As for 6272

6562

<i>Switch</i>	<i>Position</i>				<i>Function</i>
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU speed</b>
	On	On	On	Off	166 MHz
	Off	On	On	Off	200 MHz
	Off	Off	On	Off	233 MHz
					1&2 = bus/processor core ratio
					3&4 = local bus frequency
5	Off*				Reserved
6	Off*				Enable Ethernet
7	Off*				Privilege Access Password (PAP) disable
8	Off*				Enable diskette write
	On				Write protected
J15	1-2*				Normal
	2-3				CMOS reset

6592

<i>Switch</i>	<i>Position</i>		<i>Function</i>
1,2	<b>1 (BF0)</b>	<b>2 (BF1)</b>	<b>Bus/CPU core ratio</b>
	On	On	2/5
	On	Off	½
	Off	On	1/3
	Off	Off	2/3 (2/7 P55C)
3,4	<b>3 CLK0</b>	<b>4 CLK1</b>	<b>Host bus speed</b>
	On	On	50 MHz
	Off	On	60 MHz
	On	Off	66 MHz
	Off	Off	Test Mode
5	Off*		Reserved
6	Off*		Enable Ethernet
7	Off*		Privilege Access Password (PAP) disable



Switch	Position	Function
8	Off*	Enable diskette write
	On	Write protected
J15	1-2*	Normal
	2-3	CMOS reset

PC 330/350

6577

Switch	Position	Function			
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU speed</b>
	Off	Off	On	On	75 MHz
	Off	Off	On	Off	90 MHz
	Off	Off	Off	On	100 MHz
	On	Off	On	Off	120 MHz
	On	Off	Off	On	133 MHz
	On	On	On	Off	150 MHz
	On	On	Off	On	166 MHz
6	Off*				Normal diskette operation
	On				Diskette Read-Only
J15	1-2				Password disabled (Clear CMOS)
	2-3*				Enabled

6587

As for 6577

PC 340

6560

Switch	Position	Function	
JP3	Short*	Enable Onboard VGA	
JP4	Short*	Enable PS/2 mouse	
JP9	1-2*	Normal CMOS	
	2-3	Clear CMOS	
JP11	1-2*	Enable Flash	
	2-3	Flash lock	
JP13	1-2*	256K cache	
	2-3	512K cache	
JP14,17	<b>JP14</b>	<b>JP17</b>	<b>CPU speed</b>
	1-2	Open	75 MHz
	3-4	Open	90 MHz
	1-2,3-4	Open	100 MHz
	3-4	1-2	120 MHz
	1-2,3-4	1-2	133 MHz
JP19	1-2	STD 3.3v	
	2-3*	VRE 3.52v	
JP21	1-2*	FDD normal	
	2-3	FDD write protect	
JP22	1-2*	Non-linear burst, async cache	
	2-3	Linear burst sync cache	
JP23	1-2*	HDD detect	
	2-3	Don't detect	

## PC 330/350

## 65X5

Jumper	Position	Function
MRD	1-2	Modem no answer on ring
	2-3*	Modem answer on ring
WP	1-2	Disable writing to diskette
	2-3*	Enable
PWD	1-2*	Password enabled
	2-3	Password reset

## 65X6

## Pentium based

Switch	Position	Function		
SW1 1-2	<b>1</b> <b>2</b>	<b>L2 cache size</b>		
	On	N/A	0	
	Off	Off	256K	
	Off	On	512K	
SW1 3-5	<b>3</b> <b>4</b> <b>5</b>	<b>CMOS setup</b>		
	Off*	Off	Off	Password enabled
	On*	Off	Off	Password reset
	Off	Off*	Off	Normal CMOS
	Off	Off	Off	Reset CMOS
SW1 6-8	<b>6</b> <b>7</b> <b>8</b>	<b>Host bus/CPU speed</b>		
	Off	Off	Off	50/75 MHz
	Off	On	Off	60/90 MHz
	Off	Off	On	66/100 MHz
	Off	N/A	N/A	Reserved
J4A2	1-2*		Normal BIOS	
	2-3		Flash enabled	
	4-5		Reserved	
J4J1-2	<b>J4J1</b> <b>J4J2</b>	<b>CPU speed</b>		
	2-3,4-5	2-3,4-5	75 MHz	
	2-3,5-6	2-3,4-5	90 MHz	
	1-2,4-5	2-3,4-5	100 MHz	
	2-3,5-6	2-3,5-6	120 MHz	
	1-2,4-5	2-3,5-6	133 MHz	
	2-3,5-6	1-2,5-6	150 MHz	
	1-2,4-6	1-2,5-6	166 MHz	
J4K1	1-2*		ISA 1/4 PCI	
	2-3		ISA 1/3 PCI	
	4-5*		CMOS setup access enabled	
	5-6		CMOS setup access disabled	
J4K2	1-2*		Normal CMOS	
	2-3		Reset CMOS	
	4-5*		Normal password	
	5-6		Reset password	
J5J1	1-3		Normal BIOS flash reset	
	1-2		Reset	
	5-7 In		ISA 1/8 clock speed	
	5-7 Out		ISA 1/6 clock speed	
	4,6,8		Reserved	
J9C1	1-3*		STD voltage CPU	
	5-7		VRE voltage CPU	

## 657X

Switch	Position	Function	
JP3,4	<b>JP3</b> <b>JP4</b>	<b>Local Bus</b>	
	1-2	1-2	VESA
	2-3	2-3	PCI

Switch	Position		Function	
JP8,9	<b>JP8</b>	<b>JP9</b>	<b>ECP DMA</b>	
	1-2	1-2	DRQ3*	
	2-3	2-3	DRQ1	
JP10	None*		3x clock speed	
	3-4		2x clock speed	
	1-2		Other	
J13	1-2*		Program flash disable	
	2-3		Enable	
JP14	1-2*		Normal CMOS	
	2-3		Clear CMOS	
JP15	1-2*		Enable Onboard VGA	
	2-3		Disable	
JP16,17	<b>JP16</b>	<b>JP17</b>	<b>Cache size</b>	
	1-2*	Close*	256K	
	2-3	Open	128K	
J23-24	<b>J23</b>	<b>J24</b>	<b>CPU</b>	
	1-2	Open	486SX*	
	2-3	Open	486DX	
	2-3	Closed	P24T	
JP35-37	<b>JP35</b>	<b>JP36</b>	<b>JP37</b>	<b>CPU speed</b>
	On	Off	Off	20 MHz
	Off	On	On	25 MHz*
	Off	On	Off	33 MHz
	Off	Off	On	40 MHz
	Off	Off	Off	50 MHz

658X

As for 657X

PC 360-S150

6598

Switch	Function
1-2,4-5,7-8,11-12	150 MHz CPU, 60 MHz bus, 30 MHz PCI, 7.51 MHz ISA
2-3,5-6,7-8,10-11	150 MHz CPU, 60 MHz bus, 30 MHz PCI, 7.51 MHz ISA
13-14	Password reset
14-15*	Password enabled
16-17	CMOS reset
17-18*	CMOS Normal
19-20	Setup disabled
20-21*	Setup enabled
22-23	Flash recovery enabled
23-24*	Normal
26-27	Reserved

PC730/750

6875

Switch	Position		Function	
J19	Open*		2/3 bus core ratio	
	Short		1/2 bus core ratio	
J21-24	<b>J21</b>	<b>J22</b>	<b>J23</b>	<b>J24</b>
	Off	Off	On	On
	<b>Cache size</b>			
J26-27	<b>J2t</b>		<b>J27</b>	
	2-3		2-3	
	2-3		1-2	
<b>Bus/CPU speed</b>				
50/75				
60/90 (120)				

Switch	Position		Function
	1-2	1-2	66/100 (133)
J28	1-2*		Mouse enabled
	2-3		Disabled
J29	1-2		Diskette read-Only
WP	2-3*		Normal diskette operation
J40	1-2*		Password enabled
PWD	2-3		Password reset (Clear CMOS)

6876

As for 6875

6877

Switch	Position				Function
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU speed</b>
	Off	Off	On	On	75 MHz
	Off	Off	On	Off	90 MHz
	Off	Off	Off	On	100 MHz
	On	Off	On	Off	120 MHz
	On	Off	Off	On	133 MHz
	On	On	On	Off	150 MHz
	On	On	Off	On	166 MHz
5	On*				Enable Administrator password
	Off				Disable
6	Off*				Normal diskette operation
	On				Diskette read-Only
J15	1-2*				Password enabled
	2-3				Disabled (Clear CMOS)

6885

As for 6875

6886

As for 6875

6887

As for 6877

PC/XT

The PC has two sets of switches and 5 expansion slots; the XT 1 set of switches and 8 slots.

Switch Bank 1

Switch	Position	Function	
1	Off	PC – boot from floppy XT – normal POST	
	On	PC – boot into basic (e.g. not floppy) XT – loop POST	
2	Off	Coprocessor installed	
3,4	<b>3</b>	<b>4</b>	<b>Memory banks used on XT (PC memory)</b>
	On	On	0 only (16K)
	Off	On	0 and 1 (32K)
	On	Off	0, 1 and 2 (48K)
	Off	Off	All 4 (64K)
5,6	<b>5</b>	<b>6</b>	<b>Video adapter</b>
	Off	Off	Mono or more than 1
	Off	On	CGA 40 x 25
	On	Off	CGA 80 x 25
	On	On	With own BIOS

Switch	Position	Function
7,8	<b>7</b>	<b>8</b>
	On	On
	Off	On
	On	Off
	Off	4

Switch Bank 2

PC only

Memory	1	2	3	4	5	6	7	8
16	1	1	1	1	0	0	0	0
32	1	1	1	1	0	0	0	0
48	1	1	1	1	0	0	0	0
64	1	1	1	1	0	0	0	0
96	0	1	1	1	0	0	0	0
128	1	0	1	1	0	0	0	0
160	0	0	1	1	0	0	0	0
192	1	1	0	1	0	0	0	0
224	0	1	0	1	0	0	0	0
256	1	0	0	1	0	0	0	0
288	0	0	0	1	0	0	0	0
320	1	1	1	0	0	0	0	0
352	0	1	1	0	0	0	0	0
384	1	0	1	0	0	0	0	0
416	0	0	1	0	0	0	0	0
448	1	1	0	0	0	0	0	0
480	0	1	0	0	0	0	0	0
512	1	0	0	0	0	0	0	0
544	0	0	0	0	0	0	0	0
576	1	1	1	1	0	0	0	0
608	0	1	1	1	0	0	0	0
640	1	0	1	1	0	0	0	0

AT

Jumper	Position	Function
Display	Front	Colour
	Rear	Mono
J18	Front	512K
	Rear	256K

PS/1

486SX - 20/25

Jumper	Position	Function
JP1	In	Enable Video MEMCS16
	Out	Disable
JP3	In	Normal CLK/2
	Out	Turbo
JP7	In	Reset
	Out	Run
JP8	1-2	Internal Battery
	2-3	External
JP9	In	Colour
	Out	Mono
JP10	1-2	Disable onboard VGA
	2-3	Enable
JP14		Reserved
JP15		Reserved
JP16	In	Parity Check enable

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Out	Disable
JP17	In	Enable Video INT9
	Out	Disable
JP23	In	486SX
	Out	486DX
JP24	In	Enable PS/2 interrupt (12)
	Out	Disable
JP26	In	1-2 Beeper
	Out	Speaker

## 486SX - 20/25

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP3	In	Normal CLK/2
	Out	Turbo
JP4	In	27512 EPROM
	Out	27256 EPROM
JP7	In	Reset
	Out	Run
JP8	1-2	Internal Battery
	2-3	External
JP9	In	Colour
	Out	Mono
JP10	1-2	Disable onboard VGA
	2-3	Enable
JP16	In	Parity Check enable
	Out	Disable
JP17	In	Enable VideoMEMCS16
	Out	Disable
JP20	In	1-2 Beeper
	Out	Speaker
JP200	1-2	Direct cache
	2-3	2-way mapping
JP 201	1-2	Direct cache
	2-3	2-way mapping
JP206	In	128K cache
	Out	>128K
JP207	1-2	Reserved
	2-3	Reserved
JP208	In	486SX
	Out	486DX
JP209	In	Enable PS/2 Mouse Interrupt (12)
	Out	Disable
JP304	1-2	Disable video BIOS
	2-3	Enable
JP305	In	Enable Video INT9 (may be shorted)
	Out	Disable

## Value Point

## 386SLC

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8		Password bypass
J12		Beeper bypass
J13	1-2	Power on LED
	3-4	HD LED
J16		IRQ9
J17		VGA enable

486SX-25

Jumper	Position	Function
JP8	1-2	Battery select
JP10	1-2	VGA disable
JP11	1-2	Power on LED
	4-5	HD LED
JP17		VGA enable
JP23	Open*	SX CPU
	Close	DX CPU
JP24	In	Enable mouse
J26	1-2	Beeper enable

486DX-33

Jumper	Position	Function
JP4		BIOS select (DX/DX2)
JP8	To rear	Battery select
JP10	To front	VGA enable
JP17	Open	VGA enable
JP11	1-2	Power on LED
	4-5	HD LED
JP23	Open*	SX CPU
	Close	DX CPU
JP200,1,6		Cache configuration
JP209	In*	Enable mouse
J20	Left	Beeper enable

ICP

Impression Products

[www.impression-brand.com](http://www.impression-brand.com)

Informtech

*Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC-00	533T-AT		

533T-AT

Same as Kamei something or Mentor BN 533T

Intel

[www.intel.com](http://www.intel.com)

*Advanced/AL*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-133	

Item	Description	Notes
Chipset	Triton	
BIOS	AMI	NCR 53c810 SCSI not supported
Bus	3 PCI/4 ISA	1 each shared. Use triton.exe
Memory (Mb)	128	FPM/EDO
Cache (K)	256	Pipeline burst
I/O	Floppy, IDE, serial, parallel, game, PS/2 mouse and keyboard.	
Video	ATI Mach64	Up to 2 MB of DRAM. For OS/2, install for VGA then latest Mach64 drivers.
Comments		Used by Gateway.

### Advanced/MN

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-133	
Chipset	Triton	
BIOS	AMI	NCR 53c810 SCSI not supported
Bus	3 PCI/4 ISA	1 each shared. Use triton.exe.
Memory (Mb)	128 Mb conventional/EDO	
Cache (K)	256 Kb asynchronous	
I/O	Floppy, IDE, serial, parallel, game	
Video	S3/Trio32	Up to 2 MB of DRAM
Audio		

### Advanced MN/LPX

Low profile version of Advanced MN.

### Advanced/ZP

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-133	
Chipset	Triton	
BIOS	AMI	NCR 53c810 SCSI not supported
Bus	3 PCI/4 ISA	1 each shared. PCI Bus mastering. Use triton.exe. Large capacitor next to CPU prevents full-length PCI in adjacent slot.
Memory (Mb)	128	FPM/EDO
Cache (K)	256 Kb asynchronous	Asynchronous
I/O	Floppy, IDE, serial, parallel, game	
Video	S3 Trio64	European model
Performance		Turn off PCI bursting for slow video cards.

### Advanced/ZE

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75-133	
Chipset	Triton	
BIOS	AMI	NCR 53c810 SCSI not supported
Bus	4 PCI/5 ISA	1 each shared. PCI Bus mastering. Use triton.exe. Large capacitor next to CPU prevents full-length PCI in adjacent slot.
Memory (Mb)	128	FPM/EDO
Cache (K)	256	Asynchronous
I/O	Floppy, IDE, serial, parallel, game	
Video	S3 Trio64	European model
Performance		Turn off PCI bursting for slow video cards.



**Advanced/EV**

Item	Description	Notes																														
CPU	Pentium																															
Speeds (MHz)	75- 166																															
Chipset	Triton																															
BIOS	AMI	NCR 53c810 SCSI not supported																														
Bus	3 PCI/4 ISA	1 each shared. PCI Bus mastering. Use triton.exe. Large capacitor next to CPU prevents full-length PCI in adjacent slot.																														
Memory (Mb)	128	FPM/EDO																														
Cache (K)	512	Synchronous																														
I/O	Floppy, IDE, serial, parallel, game																															
Video	S3 Trio64	European model																														
Audio	SoundBlaster 16																															
Performance		Turn off PCI bursting for slow video cards. To overclock 120 -33, set:																														
		<table border="1"> <thead> <tr> <th>CPU</th> <th>Sw 2</th> <th>Sw 6</th> <th>Sw 7</th> <th>Sw 8</th> </tr> </thead> <tbody> <tr> <td>75</td> <td>OFF</td> <td>OFF</td> <td>On</td> <td>OFF</td> </tr> <tr> <td>90</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>OFF</td> </tr> <tr> <td>100</td> <td>OFF</td> <td>OFF</td> <td>On</td> <td>On</td> </tr> <tr> <td>120</td> <td>On</td> <td>On</td> <td>OFF</td> <td>OFF</td> </tr> <tr> <td>133</td> <td>On</td> <td>On</td> <td>On</td> <td>On</td> </tr> </tbody> </table>	CPU	Sw 2	Sw 6	Sw 7	Sw 8	75	OFF	OFF	On	OFF	90	OFF	OFF	OFF	OFF	100	OFF	OFF	On	On	120	On	On	OFF	OFF	133	On	On	On	On
CPU	Sw 2	Sw 6	Sw 7	Sw 8																												
75	OFF	OFF	On	OFF																												
90	OFF	OFF	OFF	OFF																												
100	OFF	OFF	On	On																												
120	On	On	OFF	OFF																												
133	On	On	On	On																												
Comments		Does not like Adaptec 2940UW																														

**AL440LX**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Chipset	440LX	
BIOS		
Bus	4 PCI/2 ISA	1 each shared
Memory (Mb)	384	SDRAM. 3 DIMM sockets
I/O	2S, 1P, USB, IR, PS/2, EIDE, floppy	
Video		AGP
Audio	Yamaha OPL3-SAX	Sometimes
Performance		Average

Jumper	Position	Function
J8B2	Normal	BIOS uses current configuration and passwords for booting
	2-3 Config	After POST, setup runs automatically (use to change setup)
	None Recovery	BIOS attempts to recover BIOS configuration (needs diskette)

Front Panel header	
1-2	Power On
3-4	Sleep
6-11	IR
13-16	HDD LED
18-20	Power LED
22-23	Reset
24-27	Speaker

**AltServer**

Item	Description	Notes
CPU	2 Pentium	
Speeds (MHz)	75-90	
Chipset	Neptune	

Item	Description	Notes
BIOS	AMI Flash	NCR 53c810 SCSI not supported
Bus	3 PCI/4 ISA	1 each shared. Bus mastering
Memory (Mb)	256	8 72-pin sockets
Cache (K)	256	Asynchronous
I/O		AIC7870 fast/wide SCSI controller.
Video	Cirrus Logic 5430	512 Kb- 1 Mb RAM
Performance		Only increases by 30% with 2 <sup>nd</sup> 90 MHz CPU and SMP OS.
Comments		Primarily for servers

**B1440ZX**

Item	Description	Notes
Form Factor	ATX	
CPU		Socket 370
Chipset	440 ZX	
BIOS	AMI	
Bus	2 PCI	66 MHz
Memory (Mb)	256 Mb	
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video	AGP	

**B486ED (D)**

Item	Description	Notes
CPU	486	DX4, P24T. CPU gives board's model number; e.g. with DX2 it would be B486ED8D266.
Speeds (MHz)	33-100	
Bus	PCI	
Memory (Mb)	64	72-pin SIMMs (parity/non-parity)
Cache (K)	256	128 standard
I/O	2S, 1P, IDE	

**CA 810**

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Chipset	Intel 810	
Bus	4 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

**D815EEAAL**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/700	FSB 133
Chipset	Intel 815E	
BIOS	Award	
Bus	5 PCI	UDMA/100
Memory (Mb)	512	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR, Intel 82562 LAN	
Video	Intel 815 GMCH	AGP

**E186194**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Xeon	SMP Slot 2
Chipset	Intel 440GX	

Item	Description	Notes
Bus	6 PCI/1 ISA	UDMA/33
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB, IR, Intel 82558 LAN	
Video	AGP 2x	

**KN-6000**

CPU Speed	Clock Ratio	FREQ1	FREQ2	FREQ3	FREQ4
233 MHz	3.5x	Off	Off	On	On
266 MHz	4x	On	On	Off	On
300 MHz	4.5x	Off	On	Off	On
333 MHz	5x	On	Off	Off	On

Leave jumpers for clock multiplier set to defaults CLK1: 1-2, CLK2: 2-3.

**KN-6010**

As for KN-6000

**PA-2005**

Intel

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2
200 MHz	66	1-2	2-3	1-2	3x	1-2	2-3
166 MHz	66	1-2	2-3	1-2	2.5x	2-3	2-3
150 MHz	60	2-3	1-2	1-2	2.5x	2-3	2-3
133 MHz	66	1-2	2-3	1-2	2x	2-3	1-2
120 MHz	60	2-3	1-2	1-2	2x	2-3	1-2
100 MHz	66	1-2	2-3	1-2	1.5x	1-2	1-2
90 MHz	60	2-3	1-2	1-2	1.5x	1-2	1-2
75 MHz	50	2-3	2-3	1-2	1.5x	1-2	1-2

AMD

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2
K6-200	66	1-2	2-3	1-2	3x	1-2	2-3
K6-166	66	1-2	2-3	1-2	2.5x	2-3	2-3
K5-PR200	60	1-2	2-3	1-2	2x	1-2	2-3
K5-PR166	66	1-2	2-3	1-2	1.75x	2-3	2-3
K5-PR150	60	2-3	1-2	2-3	1.75x	2-3	2-3
K5-PR133	66	2-3	1-2	1-2	1.5x	1-2	1-2
K5-PR120	60	1-2	2-3	1-2	1.5x	1-2	1-2
K5-PR100	66	2-3	1-2	1-2	1.5x	1-2	1-2
K5-PR90	60	1-2	2-3	1-2	1.5x	1-2	1-2
K5-PR75	50	2-3	2-3	1-2	1.5x	1-2	1-2

Cyrix

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2
200MX	66	2-3	1-2	1-2	2.5x	2-3	2-3
166MX	60	1-2	2-3	1-2	2.5x	2-3	2-3
P200+	75	1-2	1-2	2-3	2x	2-3	2-3
P166+	66	2-3	1-2	1-2	2x	2-3	1-2
P150+	60	1-2	2-3	1-2	2x	2-3	1-2
P133+	55	1-2	1-2	1-2	2x	2-3	1-2
P120+	60	2-3	2-3	1-2	2x	2-3	1-2

CPU Voltage	VR1	VR2
P54C VRE (3.384)	1-2	1-2,3-4
P54C STD.VR(3.4-3.6)	3-4	1-2,3-4
P55C (2.8V/3.3V)	5-6	5-6,7-8
2.5V/3.3V	5-6	5-6,7-8
2.7-2.9V/3.3V	5-6	5-6,7-8
2.9V/3.3V	7-8	5-6,7-8

### Performance

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium Pro	
Chipset	450KX (Mars)	
BIOS	Intel Flash	
Bus	4 PCI/3 ISA	2 each shared
Memory (Mb)	128	Parity, non-parity or ECC FPM RAM (60 ns)
I/O	2S, 1P, IR	

### PIO-3

#### Intel

	JC1	JC2	JC3	JC4	JC5	RNA	RNC	RNI
486SX	2-3	1-2	Off	Off	Off	Off	Off	Pin1
486DX/DX2/P24S	1-2	1-2	Off	2-3	Off	Off	Off	Pin1
DX4ODP/P24D	1-2	1-2	Off	2-3	Off	Off	Off	Pin1
P24T	1-2	1-2	Off	1-2	On	Off	Off	Pin1
DX4	1-2	1-2	Off	1-2	Off	Off	Off	Pin1

#### AMD

	JC1	JC2	JC3	JC4	JC5	RNA	RNC	RNI
486DX2 (V)	1-2	1-2	On	Off	Off	On	Off	Off
Enh DX2 (SV)	1-2	1-2	Off	2-3	Off	Off	Off	Pin1
DX4 (V)	1-2	1-2	Off	Off	Off	On	Off	Off
Enh486DX4(NV,SV)	1-2	1-2	Off	1-2	Off	Off	Off	Pin1
X5	1-2	1-2	Off	2-3	Off	Off	Off	Pin1

#### Other CPUs

	JC1	JC2	JC3	JC4	JC5	RNA	RNC	RNI
UMC U5SD	1-2	1-2	Off	Off	Off	On	Off	Off
UMC U5S, U5SLV	2-3	2-3	Off	Off	Off	On	Off	Off
Cyrix DX, DX2	1-2	1-2	Off	Off	Off	Off	On	Off
TI DX2, DX4	1-2	1-2	Off	Off	Off	Off	On	Off
Cyrix DX4, 5x86	1-2	1-2	Off	1-2	Off	Off	Off	Last pin

Function	Pins	Description				
JPW1,2	<b>JPW1</b>	<b>CPU voltage</b>				
	1-2		Off	3.3v		
	2-3		Off	3.45v		
	Off		1-2	3.6v		
	Off		2,3	4v		
	Doesn't matter			5v		
JK1-4	<b>JK1</b>	<b>JK2</b>	<b>JK3</b>	<b>JK4</b>	<b>CPU clock</b>	
	1-2	1-2	2-3	2-3		50 MHz
	2-3	1-2	2-3	1-2		40 MHz
	1-2	2-3	1-2	2-3		33 MHz
	1-2	1-2	1-2	1-2		25 MHz
JCP	On	Clear password				
Video	Off	CGA				
	On	Others				

Function	Pins	Description
JW1,2	1-2	COM2 standard
	2-3	Infra Red
JW3,4	1-2	ECP DMA1
	2-3	ECP DMA 3
J1	1-2	Intel 28F001BX-T EPROM (12v)
	2-3	SST 29EE101 (5v)
J3	On	TB LED Green mode
	Off	TB LED Turbo mode
J11	On	LPT output only
	Off	Bidirectional
JT1,JCK	1-2	50MHz or 40MHz clock
	2-3	25MHz or 33MHz clock

*Plato*

Function	Pins	Description
J1H3	1-2	50 MHz host bus clock
	2-3	60 MHz host bus clock
J1H4	1-2	66 MHz (undocumented)

In front of 2<sup>nd</sup> PS/2 slot (from the right).

*Premiere*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	60/66	
Chipset	Mercury	
BIOS	AMI Flash	
Bus	3 PCI/5 ISA	1 each shared
Memory (Mb)	128	4 72-pin sockets
Cache (K)	256	
I/O	2S, 1P, IDE	CMD for IDE. NCR SCSI built in.
Problems		Problems with SCSI? With ATI card and internal modem, turn off intelligent remapping of COM ports to avoid conflicts with ATI card and COM 4. For NCR SCSI controller, set IRQ9 to "used by ISA card" during install. If running SCSI as boot drive, turn off drive C: timeout for faster boot.

*Premiere II*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	75/90/100	
Chipset	Neptune	
BIOS	AMI Flash	
Bus	3 PCI/5 ISA	1 each shared
Memory (Mb)	128	4 72-pin sockets
Cache (K)	256	
I/O	2S, 1P, IDE	RZ1000 for IDE. NCR SCSI built in. The SMC chip controlling serial ports should have the letters "GT" after it for trouble-free communications.
Performance		To overclock to 100 MHz, move "reserved" jumper (J13) to pins 1 & 2 (75 MHz side) from 2 & 3 (75/90 side).
Problems		Need v1.00.10.AX1 of BIOS to fix problems with Access Timing (GAT) and BackMaster 1.1. With ATI card and internal modem, turn off intelligent remapping of COM ports to avoid conflicts with ATI card and COM 4. For NCR SCSI controller, set IRQ9 to 'used by ISA card' during install. If running a SCSI as boot drive, turn off drive C: timeout for faster boot.

*PN-6010*

Function	Pins	Description
CLK1,2	CLK1 CLK2	External clock

Function	Pins			Description
	1-2	Off		66 MHz
	2-3	Off		60 MHz
JK1-4	<b>FREQ1</b>	<b>FREQ2</b>	<b>FREQ3</b>	<b>Clock Ratio</b>
	Close	Close	Open	4x
	Open	Open	Close	3.5x
	Close	Open	Close	3x
	Open	Close	Close	2.5x
VR1	All open			ATX power supply
	1-2,3-4			Standard power supply

PN-6210

Function	Pins			Description	
CLK1,2	CLK1	CLK2		External clock	
	1-2	2-3		66 MHz	
	2-3	1-2		60 MHz	
	2-3	2-3		50 MHz	
JK1-4	<b>FREQ1</b>	<b>FREQ2</b>	<b>FREQ3</b>	<b>FREQ4</b>	<b>Clock Ratio</b>
	On	On	Off	On	4x
	Off	Off	On	On	3.5x
	On	Off	On	On	3x
	Off	On	On	On	2.5x
	On	On	On	On	2x

PT-2006

Intel

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
233 MHz*	66	2-3	1-2	1.5x	1-2	1-2
200 MHz	66	2-3	1-2	3x	1-2	2-3
166 MHz	66	1-2	2-3	2.5x	2-3	2-3
150 MHz	60	1-2	2-3	2.5x	2-3	2-3
133 MHz	66	2-3	1-2	2x	2-3	1-2
120 MHz	60	1-2	2-3	2x	2-3	1-2
100 MHz	66	2-3	1-2	1.5x	1-2	1-2
90 MHz	60	1-2	2-3	1.5x	1-2	1-2
75 MHz	50	2-3	2-3	1.5x	1-2	1-2

\* use P55C voltage (for MMX)

AMD

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
K5-PR166	66	2-3	1-2	2.5x	2-3	2-3
K5-PR133	66	2-3	1-2	2x	2-3	1-2
K5-PR120	60	1-2	2-3	2x	2-3	1-2
K5-PR100	66	2-3	1-2	1.5x	1-2	1-2
K5-PR90	60	1-2	2-3	1.5x	1-2	1-2
K5-PR75	50	1-2	1-2	1.5x	1-2	1-2

Cyrix

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
M2 200	66	2-3	1-2	3x	1-2	2-3
M2 180	60	1-2	2-3	3x	1-2	2-3
M2 166	66	2-3	1-2	2.5x	2-3	2-3
P166+	66	2-3	1-2	2x	2-3	1-2
P150+	60	1-2	2-3	2x	2-3	1-2
P133+	55	1-2	1-2	2x	2-3	1-2
P120+	50	2-3	2-3	2x	2-3	1-2

CPU Voltage <10/96	VR1	VR2
P54C STD, VR (3.384V)	1-2	5-6,7-8
P54C VRE (3.49V)	3-4	5-6,7-8
P55C (2.8V/3.3V)	7-8	1-2,2-3

CPU Voltage >10/96	VR1	VR2
P54C STD, VR (3.4-3.6)	1-2	5-6,7-8
P54C VRE (3.3)	3-4	5-6,7-8
P55C (2.8V/3.3V)	7-8	1-2,3-4
2.5V/3.3V	9-10	1-2,3-4
2.9V/3.3V	5-6	1-2,3-4

Function	Pins	Description		
CPS	Open	Normal		
	Close	Clear password		
SRAM1	<b>SRAM1</b>	<b>R146</b>		
R146	1-2	On	<b>Onboard cache</b>	<b>Module (&gt;COAST 3)</b>
	1-2	On	256K	0
	2-3	On	0	256K
	2-3	Open	256K	256K
	2-3	Open	512K	0
	2-3	Open	0	512K

PT-2011

Intel

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
233 MHz	66	1-2	1-2	2-3	1.5x	1-2	1-2	1-2
200 MHz	66	1-2	1-2	2-3	3x	1-2	2-3	1-2
166 MHz	66	1-2	1-2	2-3	2.5x	2-3	2-3	1-2
150 MHz	60	2-3	1-2	2-3	2.5x	2-3	2-3	1-2
133 MHz	66	1-2	1-2	2-3	2x	2-3	1-2	1-2
120 MHz	60	2-3	1-2	2-3	2x	2-3	1-2	1-2
100 MHz	66	1-2	1-2	2-3	1.5x	1-2	1-2	1-2
90 MHz	60	2-3	1-2	2-3	1.5x	1-2	1-2	1-2
75 MHz	50	Not supported						

AMD

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
K6-233	66	1-2	1-2	2-3	3.5x	1-2	1-2	1-2
K6-200	66	1-2	1-2	2-3	3x	1-2	2-3	1-2
K6-166	66	1-2	1-2	2-3	2.5x	2-3	2-3	1-2
K5-PR200	66	1-2	1-2	2-3	2x	1-2	2-3	1-2
K5-PR166	66	1-2	1-2	2-3	1.75x	2-3	2-3	1-2
K5-PR150	60	2-3	1-2	2-3	1.75x	2-3	2-3	1-2
K5-PR133	66	1-2	1-2	2-3	1.5x	1-2	1-2	1-2
K5-PR120	60	2-3	1-2	2-3	1.5x	1-2	1-2	1-2
K5-PR100	66	1-2	1-2	2-3	1.5x	1-2	1-2	1-2
K5-PR90	60	2-3	1-2	2-3	1.5x	1-2	1-2	1-2
K5-PR75	50	Not supported						

Cyrix

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
M2 200	66	1-2	1-2	2-3	3x	1-2	1-2	1-2
M2 180	60	2-3	1-2	2-3	3x	1-2	2-3	2-3
M2 166	66	1-2	1-2	2-3	2.5x	2-3	2-3	2-3
M2 150	60	2-3	1-2	2-3	2.5x	2-3	2-3	2-3
P200+	Not supported							

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
P166+	66	1-2	1-2	2-3	2x	2-3	1-2	1-2
P150+	60	2-3	1-2	2-3	2x	2-3	1-2	1-2
P133+	55	2-3	2-3	2-3	2x	2-3	1-2	1-2
P120+	50	Not supported						

CPU Voltage >10/96	VR1	VR2
P54C STD, VR (3.384V)	1-2	1-2,3-4
P54C VRE (3.49V)	3-4	1-2,3-4
P55C (2.8V/3.3V)	9-10	5-6,7-8
K5 "B" (3.5V)	1-2	1-2,3-4
K6-233 (3.2/3.3V)	5-6	5-6,7-8
K6-166/200 (2.9V/3.3V)	7-8	5-6,7-8
Cyrix 3.52V (028)	1-2	1-2,3-4
Cyrix 6x86L (2.8V/3.3V)	9-10	5-6,7-8

**PT-2200**

Intel

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
233 MHz	66	1-2	2-3	1.5x	1-2	1-2
200 MHz	66	1-2	2-3	3x	2-3	2-3
166 MHz	66	1-2	2-3	2.5x	2-3	2-3
150 MHz	60	2-3	1-2	2.5x	2-3	2-3
133 MHz	66	1-2	2-3	2x	2-3	1-2
120 MHz	60	2-3	1-2	2x	2-3	1-2
100 MHz	66	1-2	2-3	1.5x	1-2	1-2
90 MHz	60	2-3	1-2	1.5x	1-2	1-2
75 MHz	50	2-3	2-3	1.5x	1-2	1-2

AMD

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
P166	66	1-2	2-3	2x	2-3	1-2
P150	50	2-3	1-2	2x	2-3	1-2
P133	66	1-2	2-3	1.5x	1-2	1-2
P120	60	2-3	1-2	1.5x	1-2	1-2
P100	66	1-2	2-3	1.5x	1-2	1-2
P90	60	2-3	1-2	1.5x	1-2	1-2
P75	50	2-3	2-3	1.5x	1-2	1-2

Cyrix

CPU	Host	CLK1	CLK2	Ratio	FREQ1	FREQ2
M2 200	66	1-2	2-3	3x	1-2	2-3
M2 180	60	2-3	1-2	3x	1-2	2-3
M2 166	66	1-2	2-3	2.5x	2-3	2-3
P166+	66	1-2	2-3	2x	2-3	1-2
P150+	60	2-3	1-2	2x	2-3	1-2
P133+	55	1-2	1-2	2x	2-3	1-2
P120+	50	2-3	2-3	2x	2-3	1-2

CPU Voltage > 10/96	VR1	VR2
P54C STD, VR (3.4-3.6)	1-2	1-2,2-3
P54C VRE (3.3)	3-4	1-2,3-4
P55C (2.8V/3.3V)	5-6	5-6,7-8
2.5V/3.3V	7-8	5-6,7-8

CPU Voltage < 10/96	VR1	VR2
P54C STD, VR (3.384V)	1-2	1-2



CPU Voltage < 10/96	VR1	VR2
P54C VRE (3.49V)	3-4	3-4
P55C (2.5V/3.3V)	5-6	5-6

Function	Pins	Description
CPS	Open	Normal
	Close	Clear password

**SE 440BX(2)**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Katmai	Slot 1
Chipset	440BX	
BIOS	AMI	
Bus	3 PCI/1 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	
Audio	Yamaha XG	
Performance		Poor
Problems		Poor documentation

**SR 440BX**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Chipset	440BX	
Bus	4 PCI/2 ISA	
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA/33
Video	nVIDIA Riva TNT	16 Mb
Audio	SB PC164D	ESS?

**VC 820**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Chipset	Intel 820	
Bus	5 PCI/1 AMR	
Memory (Mb)	1024 Mb RDRAM	3 RIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA/66 100-133
Video	AGP	
Audio	ES1373	
Performance		Poor
Comments		Also look at the SuperMicro PIII SCE

**VS440FX**

CPU speed	Host bus speed	Pins		
200 MHz	66 MHz	19-21	12-14	9-11
180 MHz	60 MHz	17-19	12-14	9-11
166 MHz	66 MHz	19-21	10-12	11-13
150 MHz	60 MHz	17-19	10-12	11-12

Function	Pins	Description
CMOS Clear	20-22	Keep*
	18-20	Clear
Password Clear	27-29	Keep*
	25-27	Clear
Setup Access	28-30	Enabled*
	26-28	Disabled
BIOS Recovery	4-6	Normal*
	2-4	Recovery mode

Front Panel header	
1-2	Power On
3-4	Sleep
6-11	IR
13-16	HDD LED
18-20	Power LED
22-23	Reset
24-27	Speaker

### VL-601

Clock settings set in CMOS

CPU	Bus	Ratio	FREQ4	FREQ3	FREQ2	FREQ1
333 MHz	66	5x	Close	Open	Open	Open
300 MHz	66	4.5x	Close	Open	Close	Open
266 MHz	66	4x	Close	Open	Close	Close
233 MHz	66	3.5x	Close	Close	Open	Open

### VT-502

Intel

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
233 MHz	66	1-2	1-2	1-2	3.5x	1-2	1-2	1-2
200 MHz	66	1-2	1-2	1-2	3x	1-2	2-3	1-2
166 MHz	66	1-2	1-2	1-2	2.5x	2-3	2-3	1-2
150 MHz	60	2-3	1-2	1-2	2.5x	2-3	2-3	1-2
133 MHz	66	1-2	1-2	1-2	2x	2-3	1-2	1-2
120 MHz	60	2-3	1-2	1-2	2x	2-3	1-2	1-2
100 MHz	66	1-2	1-2	1-2	1.5x	1-2	1-2	1-2
90 MHz	60	2-3	1-2	1-2	1.5x	1-2	1-2	1-2
75 MHz	50	Not supported						

AMD

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
K6-233	66	1-2	1-2	1-2	3.5x	1-2	1-2	1-2
K6-200	66	1-2	1-2	1-2	3x	1-2	2-3	1-2
K6-166	66	1-2	1-2	1-2	2.5x	2-3	2-3	1-2
K5-PR200	66	1-2	1-2	1-2	2x	1-2	2-3	1-2
K5-PR166	66	1-2	1-2	1-2	1.75x	2-3	2-3	1-2
K5-PR150	60	2-3	1-2	1-2	1.75x	2-3	2-3	1-2
K5-PR133	66	1-2	1-2	1-2	1.5x	1-2	1-2	1-2
K5-PR120	60	2-3	1-2	1-2	1.5x	1-2	1-2	1-2
K5-PR100	66	1-2	1-2	1-2	1.5x	1-2	1-2	1-2
K5-PR90	60	2-3	1-2	1-2	1.5x	1-2	1-2	1-2
K5-PR75	50	Not supported						

Cyrix

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
M2 200	66	2-3	1-2	2-3	3x	1-2	1-2	1-2
M2 166	60	2-3	1-2	1-2	2.5x	2-3	2-3	2-3

CPU	Host	CLK1	CLK2	CLK3	Ratio	FREQ1	FREQ2	FREQ3
P200+		Not supported						
P166+	66	1-2	1-2	2-3	2x	2-3	1-2	1-2
P150+	60	2-3	1-2	2-3	2x	2-3	1-2	1-2
P133+	55	2-3	2-3	2-3	2x	2-3	1-2	1-2
P120+	50	Not supported						

CPU Voltage	VR1	VR2
P54C STD, VR (3.3V)	1-2	Open
P54C VRE (3.5V)	3-4	Open
P55C (2.8V/3.3V)	9-10	1-2,3-4
AMD K5 "B" (3.5V)	1-2	Open
AMD K6-166/200 (2.9V/3.3V)	7-8	1-2,3-4
Cyrix 3.52V (028)	1-2	open
Cyrix 6x86L (2.8V/3.3V)	9-10	1-2,3-4
Cyrix 6x86MX (2.9V/3.3V)	7-8	1-2,3-4

**VT-503**

Clock speed is determined in CMOS.

**Intel**

CPU	Host	Ratio	FREQ1	FREQ2	FREQ3
233 MHz	66	1.5x	1-2	1-2	1-2
200 MHz	66	3x	1-2	2-3	1-2
166 MHz	66	2.5x	1-2	2-3	2-3
150 MHz	60	2.5x	1-2	2-3	2-3
133 MHz	66	2x	1-2	1-2	2-3
120 MHz	60	2x	1-2	1-2	2-3
100 MHz	66	1.5x	1-2	1-2	1-2
90 MHz	60	1.5x	1-2	1-2	1-2
75 MHz	50	1.5x	1-2	1-2	1-2

**AMD**

CPU	Host	Ratio	FREQ1	FREQ2	FREQ3
K6-300	66	4.5x	2-3	2-3	2-3
K6-266	66	4x	2-3	1-2	2-3
K6-233	66	3.5x	1-2	1-2	1-2
K6-200	66	3x	1-2	2-3	1-2
K6-166	66	2.5x	1-2	2-3	2-3
K5-PR200	66	2x	1-2	2-3	1-2
K5-PR166	66	1.75x	1-2	2-3	2-3
K5-PR150	60	1.75x	1-2	2-3	2-3
K5-PR133	66	1.5x	1-2	1-2	1-2
K5-PR120	60	1.5x	1-2	1-2	1-2
K5-PR100	66	1.5x	1-2	1-2	1-2
K5-PR90	60	1.5x	1-2	1-2	1-2

CPU	Host	Ratio	FREQ1	FREQ2	FREQ3
M2 266	66	3.5x	1-2	1-2	1-2
M2 233	66	3x	1-2	1-2	1-2
M2 200	60	3x	1-2	1-2	1-2
M2 166	60	2.5x	1-2	2-3	2-3
P166+	66	2x	1-2	1-2	2-3
P150+	60	2x	1-2	1-2	2-3
P133+	55	2x	1-2	1-2	2-3

CPU Voltage	VR1
P54C STD, VR (3.3V)	1-2,5-6,7-8
P54C VRE (3.5V)	1-2,3-4,5-6,7-8
P55C (2.8V/3.3V)	7-8
AMD K6 166,200 (2.9V/3.3V)	1-2,7-8
AMD K6 233 (3.2V/3.3V)	5-6,7-8
AMD K6 266,300 (2.1V/3.3V)	1-2
Cyrix 6x86MX (2.9V/3.3V)	1-2,7-8

## VX

Jumper	Position	Function
JP 4	On	12v Flash ROM
	Off	5v or EPROM
JP 5	1-2	ISA Clock PCI/4
	2-3	PCI/3
JP 6	Open	Sleep switch
JP 7		SDRAM voltage
JP 14	1-2	3.5v CPU voltage (Vre)
	2-3	3.38v (Std, Vr)

## Inventa

## Inventec

## Itri

## Iwill

Quick Technology. [www.iwill.com](http://www.iwill.com) [www.iwillusa.com](http://www.iwillusa.com)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	P54TS/P55TV Lite	DC	P55TU
BC	P55XUB	EC	P54TSW2
DC	T54TS		

## DBS100

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	SMP Slot 1
Chipset	Intel 440BX	
Bus	4 PCI/2 ISA	
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR	Adaptec AIC-7895P
Video		AGP 2x



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## Jamicon

(818) 333 9168

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	KM-T5-V2		

## Jaton Corp

www.jaton.nl

## JBond

J. Bond Computer Systems. www.jbond.com

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	PCI 400C-C	A-00	PCI 500C-D
1C-00	PCI 500C-B or -C	AC-01	PCI 500C-H2
9C-02	PCI 500C-H	HC-00	PCI 500C-E

### *PCI400C-A*

Item	Description	Notes
CPU	486	DX2-66, P24T
Speeds (MHz)	66	
Chipset	Saturn	
BIOS	Phoenix	
Bus	3 PCI/4 ISA	2 PCI/5 ISA? 1 each shared
Memory (Mb)		4 72-pin 36-bit SIMMs, in identical pairs

Item	Description	Notes
I/O		Built-in NCR SCSI
Problems		Disable L2 Cache for reliable SCSI operation.

### PCI400C-C

Item	Description	Notes
Form Factor		
CPU	486	P24T, 5 and 3.3v
Chipset	SiS	
Bus	3 PCI/4 ISA	PCI are busmasters
Memory (Mb)	128	
I/O	2S, 1P	
Comments		Later revision of 400-A

### PCI500C-A

Item	Description	Notes
Chipset	Mercury	
BIOS	Phoenix	
Bus	4 PCI/4 ISA	
Memory (Mb)		4 72-pin sockets
Cache (K)	512 Kb	
I/O		NCR 53c810 SCSI
Performance		Disable CPU Cache (L1) for reliable operation, at least on early boards.

### JDR Microdevices (HK)

2theMax. [www.2themax.com](http://www.2themax.com)

### Jetta

(908) 329 9651

### Jetway

Also known as Jet Fair or maybe Jetboard. [www.jetway.com.tw](http://www.jetway.com.tw)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	J 403TG	AC	J 656HXA
1	J 403TG	AC-00	J 656VXA
1-00	J 433, 435 or 437	CC	J 656B
1C	J 656-VXD/J 646C	CC-00	J 656VXB v3.0 or 656VXC/P
1-00	J 636/J 446 A v2.0	DC	J 656C/VXB
9	J 636	U	J 756A (P Pro)
9C	J 656/VXB	H	J 426
9C-00	J 5TXBR2/J 648A/J 636	HC	J 426
9C-00	J 446 A V2.0	W	J 646A

### J 5TXC/L

Jumper	Position	Function
JP2	2-3	Normal
	3-4	Clear CMOS
JP3	1-2	12v Flash ROM
	2-3	5v Flash ROM
JP4	1-2      3-4      5-6      7-8	CPU voltage

Jumper	Position				Function
	In	In	In	In	3.52 (single)
	Out	In	In	In	3.45
	In	Out	In	In	3.3
	Out	Out	In	In	3.2
	In	Out	Out	In	2.9
	Out	Out	Out	In	2.8
	In	Out	Out	Out	2.1
U22	<b>1</b>	<b>2</b>	<b>3</b>		<b>Clock multiplier</b>
	Off	Off	Off		1.5x
	Off	Off	On		2x
	Off	On	On		2.5x
	Off	On	Off		3x
	Off	Off	Off		3.5x
	On	Off	On		4x
	On	On	On		4.5x
	<b>4</b>	<b>5</b>	<b>6</b>		<b>Bus frequency</b>
	Off	Off	On		60 MHz
	Off	Off	Off		66 MHz
	Off	On	Off		75 MHz
	On	On	On		83 MHz

### J 571B

Item	Description	Notes
Form Factor	Baby AT	22 x 22 cm
CPU	Pentium	P54C/Cyrix M1/AMD K5, Intel P55C (MMX)/Cyrix M2 (MMX)/AMD K6 (MMX)
Speeds	75-300	
Chipset	SiS 5571	
Bus	3 PCI/4 ISA	
Memory	256	FPM, EDO, SDRAM. 2 x 72-pin SIMMs and 2 x 168-pin DIMMs (3.3V).
Cache (K)	512	Pipelined Burst SRAM
I/O	2S, 1P, IR, Floppy, EIDE, PS/2, USB	

Jumper	Position	Function
JP3	1-2	5v Flash ROM (SST, Winbond)
	2-3	12v (Intel)
JP7	1-2	Normal
	2-3	Clear CMOS
JP13	1-2	3.3v CPU
	2-3	3.45v CPU
TB-SW	1-2	SMI suspend switch
	2-3	Turbos switch

Voltage	1-2	3-4	5-6	7-8	9-10	11-12	13-14
2.1V	open	open	open	open	open	open	Short
2.8V	open	open	open	open	open	Short	open
2.9V	open	open	open	open	Short	open	open
3.2V	open	open	open	Short	open	open	open
3.3V	open	open	Short	open	open	open	open
3.45V	open	Short	open	open	open	open	open
3.52V	Short	open	open	open	open	open	open

### 656VXA

Jumper	Position	Function
JP 15	1-2	12v Flash ROM (Intel, MXIC)

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
	2-3				5v (SST, Winbond)
JP 17	Short				ISA clock PCI/4
	Open				PCI/3
J 20	3-4,5-6				50 MHz Ext clock
	3-4				55
	5-6				60
	Open				66
JP 18-20	<b>JP 18</b>	<b>JP19</b>	<b>JP20</b>	<b>CPU Voltage</b>	
	Closed	Open	Open	3.3v	
	Open	Closed	Open	3.45v	
	Open	Open	Closed	3.6v	
JP 21,22	<b>JP21</b>	<b>JP22</b>			<b>CPU Frequency Ratio</b>
	Open	Open			1.5
	Closed	Open			2
	Closed	Closed			2.5
	Open	Closed			3
JP 16,25,27,28	<b>JP16</b>	<b>JP25</b>	<b>JP27</b>	<b>JP28</b>	<b>Cache size</b>
	1-2	1-2	1-2	1-2	256K
	1-2	2-3	2-3	1-2	256K + 256K module (512K)
JP 33	Open				Normal
	Closed				Clear CMOS

## J-Mark

### 656VXA

See under Jetway

## JossTech

www.josstech.com

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	JT 586IP4	BC	JT 586TS4
9C-00	JT 586TS4/IV4	C-00	J 646C
AC	JT 586TS4		





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## Kaimei

Association with Jamicon?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	KM-S4-1 PCI rev 5.1	2C-00	KM-S4-1 v4.2/4.3

### *KM-S4-1 PCI rev 5.1*

Same as Azza 4SIG or Rectron RT-4S3

## Kam-Tronic

MegaStar

megastar.kamtronic.com

## Kapok

## Kinpo

## Koutech Systems

www.koutech.com

*Notes*

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## LAN Plus

[www.lan-plus.com](http://www.lan-plus.com)

## Lanix

[www.lanix.com](http://www.lanix.com)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C	PM 900		

## Lanner

## Leading Edge

### D3/SX

Jumper	Position	Function
15	1-2	Enable mouse
	2-3	Disable

## Lexar

Out of Business.

## LXM-510(D)

Item	Description	Notes
CPU	486	P24T. For 3.3v CPUs, use Model 99 Regulator
Chipset	IMS	Integrated Micro Solutions
BIOS	Award/AMI Flash	

Item	Description	Notes
Bus	2 PCI/2 ISA/2 VL	
Memory (Mb)	128	8 30-pin sockets
I/O	2S, 1P, PS/2	
Comments	Early boards had separate connectors for PCI 3.3v, later replaced with separate voltage regulator. Manual is rubbish.	

### Lucky Star

www.lucky-star.com.tw

Something to do with Flamingo?

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
2C-00	P 407 rev 2	AC	6AIX2 (Jumperless)
3	4C-1	BC-00	P55CE Rev DW83707/87
3C	LS 486E	CC-00	P55CE-C2/P54CE
9C	6LX2/ P54CE/5V-2	FC	P54CE
9C-00	CH5T		

### P54CE

Same as Flamingo 5I-VX1C

### 5I-VX1C

Same as Flamingo MB-FLM-TX01

### 6ABX2V

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	550 MHz	Faster with DIP switch version of board
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Comments	Only 2 jumpers	

### Lucky Tiger



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[Macrotech](#)

[Matra](#)

(818) 855 1820

[Matsonic](#)

[www.matsonic.com](http://www.matsonic.com)

[Megastar](#)

[www.megastar.kamtronic.com](http://www.megastar.kamtronic.com)

[Mega System Co](#)

[www.computersources.com.hk/mega/](http://www.computersources.com.hk/mega/)

[Megatrends Technology](#)

[www.megacom.com](http://www.megacom.com)

[Memorex Telex](#)

*7006*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2*	256K SIP DRAM for EMS
	2-3	1 Mb SIP DRAM for EMS
JP5	Out	Disable video IRQ2

## 7010

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JB1	A	Mono monitor	
JB2	In	EGA	
	Out	Mono	
JB3	In	Hercules video	
	Out	Disable	
JB4	A	27256 Video BIOS EPROM	
	B	27128 Video BIOS EPROM	
JB5,7	<b>JB5</b>	<b>JB7</b>	<b>Boot Select</b>
	Out	Out	Unused
	Out	In	Boot from network
	In	Out	Unused
	In	In	Unused
JB6	A	27256 BIOS EPROM	
	B	27512 BIOS EPROM	
JB8	A	RAM size select unsued	
	B	640K	
JB9	In	Enable COM2	
	Out	Disable	
JB10	In	Enable extended diagnostics	
	Out	Disable	
JB11	A	LAN IRQ9	
	B	LAN IRQ5	
JB12	A	Disable LAN	
	B	Enable LAN	
JB13,14	<b>JB13</b>	<b>JB14</b>	<b>LAN response time</b>
	Out	Out	74.7 ms
	Out	In	283.4 ms
	In	Out	561.8 ms
	In	In	1118.6 ms

## 7022

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W2	1-2*	0.7 wait state
	2-3	0 wait state
W3	1-2	Mono display
	2-3*	Colour display
W4	1-2	Disable floppy
	2-3*	Enable floppy
W5	1-2*	HD floppy write current
	2-3	HD floppy RPM
W9	1-2	12 MHz maths copro
	2-3*	16 MHz maths copro
W11	1-2	Disable VGA
	2-3*	Enable VGA
W12		IDE access
W15	1-2*	Enable IRQ9
	2-3	Disable
W16	In*	Enable PS2 mouse (IRQ12)
	Out	Disable

## 7025

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W2	Out	Enable VGA
	In	Disable
1W8	Out	ANSI 3.5" (ignore pin 2)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	1-2	AT 3.5" diskette
	2-3	PS/2 3.5" diskette
W9	Out	Normal POST
	In	Continuous POST
W12	Out	Mono display (not with VGA)
	In	Colour display (not with VGA)

## 7040

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
ST1	1-2*	IRQ10=SCSI HD	
	2-3	IRQ14=ST506 HD	
ST2	In*	SCSI controller enabled	
ST3	In*	SCSI DMA (DACK3) enabled	
	Out	Disabled	
ST4	1-2*	27256 ROM BIOS	
	2-3	27512 ROM BIOS	
ST6	In*	Enable COM1	
ST7	In*	Enable PS/2 mouse (IRQ12)	
	Out	Disable	
ST9	In*	Enable COM2	
ST10	In*	Floppy enabled	
	Out	Disabled	
ST11	In	Extension 512K or 2 Mb enabled	
	Out*	Disabled	
ST12	In*	640K onboard RAM enabled	
	Out	Disabled	
ST18	In*	Enable VGA	
ST22	In*	I/O wait state generator enabled	
	Out	Disabled	
ST23	In*	Enable DMA2 for floppy	
	Out	Disable	
ST26	1-2*	Enable LPT1 (378h)	
	2-3	Enable LPT2 (278h)	
ST32	In*	Long ALE enabled	
	Out	Disabled	
ST34	1-2	LPT2 IRQ5 enabled	
	2-3*	LPT1 IRQ7 enabled	
ST37	In	6v battery	
	Out*	2 x 3v batteries	
ST 38	In*	Enable SCSI DMA (DRQ3)	
ST39	In*	COM2 IRQ3 enabled	
	Out	Disabled	
ST40	1-2	External battery	
	2-3*	Internal battery	
ST42	In*	COM1 IRQ4 enabled	
	Out	Disabled	
ST44,45	<b>ST44</b>	<b>ST45</b>	<b>VGA</b>
	In*	In*	Enable
	Out	Out	Disable
SW2	<b>S1</b>	<b>S2</b>	<b>Display Type</b>
S1-2	Off	Off	VGA
	On	On	EGA
	On	Off	Mono
	Off	On	CGA
SW2	<b>S3</b>	<b>S4</b>	<b>Language</b>
S3-4	Off	Off	French

Jumper	Position	Function
	On Off	Spanish
	On On	English
	Off On	German
SW2	On	ST506 interface
S5	Off	SCSI interface
SW2	On	HD IRQ14 (ST 506)
S6	Off	HD IRQ10 (SCSI)

7045/D

Jumper	Position	Function
JP1	1-2	COM1 IRQ4
	2-3*	COM2 IRQ3
JP2	1-2*	COM2 IRQ4
	2-3	COM1 IRQ3
JP3		Reserved
JP4	1-2	27128 EPROM
	2-3*	27256 EPROM
JP5	1-2*	12 MHz CPU clock
	2-3	8 MHz CPU clock
JP6	1-2	Auto reset
	2-3*	POST once
JP7	1-2	Enable HD controller port 157h
	2-3*	Disable HD
JP8	Out*	Reserved
JP9	1-2*	Enable floppy
	2-3	Disable
JP10	Out*	Reserved
JP11	1-2	Floppy address 37xh
	2-3*	Floppy address 3F8h
JP12	1-2*	16-bit video
	2-3	8-bit video
JP13		Reserved
JP14	1-2	COM1 2F8h
	2-3*	COM1 3F8h
	All out	Disable
JP15	1-2	COM2 2F8h
	2-3*	COM2 3F8h
	All out	Disable
JP17	1-2	Not used
	2-3*	36 MHz video clock (800x600)
JP18	1-2	Disable video
	2-3	Enable video
JP19	1-2	LPT IRQ7
	2-3	LPT IRQ5
JP20	1-2	Enhanced colour display
	2-3	Mono/colour display

Display	S2	S3	S4	S5	S6	JP12	JP18	JP20
Analogue	Off	Off	Off	Off	Off	1-2	2-3	1-2
Enh RGB	On	On	Off	On	Off	1-2	2-3	1-2
Colour RGB	Off	Off	On	On	Off	1-2	2-3	2-3
TTL mono	Off	On	Off	On	Off	1-2	2-3	2-3
Disabled	Off	Off	Off	Off	Off	2-3	1-2	1-2



## 7065

<i>Jumper</i>	<i>Position</i>		<i>Function</i>		
JP5	1-2*		LPT1 IRQ7		
	2-3		LPT2 IRQ5		
JP6-7	<b>JP6</b>	<b>JP7</b>	<b>COM IRQ</b>		
			1-2	1-2*	COM2 IRQ4
			2-3*	2-3	COM1 IRQ3
JP8	1-2		LPT2 278h		
	2-3*		LPT1 378h		
JP9-10	<b>JP9</b>	<b>JP10</b>	<b>COM Address</b>		
			1-2	1-2*	COM2 2F8h
			2-3*	2-3	COM1 3F8h
JP11	1-2		HD adapter installed		
	2-3*		Not installed		
JP12	1-2*		Floppy enabled		
	2-3		Disabled		
JP13	1-2		Floppy address 38xh		
	2-3*		Floppy address 3Fhx		
JP20,21	<b>JP20</b>	<b>JP21</b>	<b>Clock speed</b>		
			In*	Out*	8 MHz
			Out	In	10 MHz
JP22	1-2		Reserved		
	2-3*		Normal boot		
JP24	1-2		80387 installed		
	2-3*		Not installed		

## 7070

<i>Jumper</i>	<i>Position</i>				<i>Function</i>		
JP5	1-2				27512 ROM		
	2-3*				27256/27128 ROM		
JP6-8	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>		<b>Maths copro</b>		
				1-2	1-2	1-2	Enable
				2-3	2-3	2-3	Disable or WTL1167*
JP9	1-2*				Disable maths copro		
	2-3				Enable		
JP9 (?)	1-2				4 Mb DRAM		
	2-3*				2 Mb DRAM		
JP9	In				4 Mb DRAM		
	Out				2 Mb DRAM		
Rev C & C1 boards							
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>ROM Type</b>		
S1-4	Off	Off	On	On	27256/27512		
	On	On	Off	Off	27128*		
SW1	Off*				MDA/EGA display		
S5	On				CGA		
SW1	Off				20 Mhz system speed		
S6	On*				Smart mode		
SW1	Off*				Modes 3 & 4 memory mapping		
S7	On				Reserved		
SW1	Off*				RAM BIOS location		
S8	On				ROM BIOS location		

## Mentor

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC-00	BN 533T		

### BN 533T

Same as Informtech 533T-AT

## Mercury Computer Corp

www.m-group.com

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	W586VX/TXA	AC	W586VXL

## Microfive

Made boards (with BIOSes) for Samsung.

## Microgram

## Micronics

www.micronics.com Recently acquired by Diamond Multimedia, together with Orchid.

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
DC	D5CUB		

### 80386SX Cache

Jumper	Position	Function
W1	1-2	CGA
	Out	Mono
W2	Out	Reserved
W3	Out	Reserved
W4	1-2*	Normal Operations
	2-3	Clear CMOS
W5	1-2,3-4	4 Mb SIMMs not installed
	2-3	4 Mb SIMMs installed
W6	Out	Reserved

### 80386SX (Non-Cache)

Jumper	Position	Function
J2	1-4	External battery
	2-3	Enable Onboard battery
	3-4	Clear CMOS

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2	In	Colour monitor
	Out	Mono
JP13	12-13	Turbo LED
	15,16,17	Turbo switch
	19-20	Reset switch
	7,8,9,10	Speaker
	1,2,3,4,5	Keylock/Power

### 80486-50 EISA 2

<i>Jumper</i>	<i>Position</i>			<i>Function</i>	
W1				Reserved	
W2,6,8	<b>W2</b>	<b>W6</b>	<b>W8</b>	<b>COM ports</b>	
	1-2	1-2	1-2	Enable COM1 & 2	
	1-2	1-2	2-3	Enable COM1, disable COM2	
	2-3	1-2	1-2	Enable COM2, disable COM1	
	2-3	1-2	2-3	Disable COM1 & 2	
W3	1-2			Enable onboard floppy (2-3 disable)	
W4,5,7	<b>W4</b>	<b>W5</b>	<b>W7</b>	<b>Parallel Port</b>	
	1-2	2-3	2-3	LPT1 3BC-3BE	
	1-2	2-3	1-2	LPT2 378-37A	
	2-3	2-3	1-2	LPT3 278-27A	
	2-3	2-3	2-3	Disabled	
W9				Reserved	
W10				Reserved	
W11				Reserved	
W12				Reserved	
W14, 17-19	<b>W14</b>	<b>W17</b>	<b>W18</b>	<b>W19</b>	<b>Cache interleave</b>
	2-3	Out	Out	Out	64K
	1-2	1-2	1-2	1-2	256K

### Switch 1

<i>Switch</i>	<i>Position</i>					<i>Function</i>
S1-5	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	On	1
	Off	On	On	On	On	2
	On	Off	On	On	On	3
	Off	Off	On	On	On	4
	On	On	Off	On	On	4
	On	On	Off	Off	On	5
	On	Off	On	Off	On	6
	Off	On	On	Off	On	7
	Off	On	Off	On	On	8
	On	Off	Off	Off	On	9
	Off	Off	On	Off	On	10
	On	Off	Off	On	On	12
	Off	Off	Off	Off	On	13
	Off	Off	Off	On	On	16
	On	On	Off	On	Off	16
	On	On	Off	Off	Off	20
	On	Off	On	Off	Off	24
	Off	On	On	Off	Off	28
	Off	On	Off	On	Off	32
On	Off	Off	Off	Off	36	
Off	Off	On	Off	Off	40	
On	Off	Off	On	Off	48	
Off	Off	Off	Off	Off	52	
Off	Off	Off	On	Off	64	

Switch	Position	Function
S6	On*	Reserved
S7	Off*	Reserved
S8	On*	Colour display
	Off	Mono

**80486 ASIC EISA**

Jumper	Position				Function
W1, 11,12,45					Reserved
W2,8 ,9	<b>W2</b>	<b>W8</b>	<b>W9</b>	<b>COM ports</b>	
	1-2	1-2	1-2	Enable COM1 & 2	
	1-2	1-2	2-3	Enable COM1, disable COM2	
	2-3	1-2	1-2	Enable COM2, disable COM1	
	2-3	1-2	2-3	Disable COM1 & 2	
W3,4,10	<b>W3</b>	<b>W4</b>	<b>W10</b>	<b>Parallel Port</b>	
	1-2	2-3	2-3	LPT1 3BC-3BE	
	1-2	2-3	1-2	LPT2 378-37A	
	2-3	2-3	1-2	LPT3 278-27A	
	2-3	2-3	2-3	Disabled	
W13	1-2				Enable onboard floppy
W20,21	<b>W20</b>	<b>W21</b>	<b>W41</b>	<b>W44</b>	<b>Cache interleave</b>
W41,44	Out	Out	Out	2-3	64K
	1-2	1-2	1-2	1-2	256K

Switch 1

As for 80486-50 EISA 2

**EISA 3**

Jumper	Position		Function
J7,10	<b>J7</b>	<b>J10</b>	<b>CPU settings</b>
	In	In	SX25, DX2-50
	Out	In	SX33, DX33, DX2-66
J6	Out	Out	DX50
	1-2,3-4	486DX	
J12	3-4	486SX	
	In	Colour display	
J12	Out	Mono	

**Baby Gemini 386**

Switch 1

Switch	Position					Function
S1-5	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	On	1
	Off	On	On	On	On	2
	On	Off	On	On	On	3
	Off	Off	On	On	On	4
	On	On	Off	On	On	4
	On	On	Off	Off	On	5
	On	Off	On	Off	On	6
	Off	On	On	Off	On	7
	Off	On	Off	On	On	8
	On	Off	Off	Off	On	9
	Off	Off	On	Off	On	10
	On	Off	Off	On	On	12
	Off	Off	Off	Off	On	13
	Off	Off	Off	On	On	16
	On	On	Off	On	Off	16

Switch	Position					Function
	On	On	Off	Off	Off	20
	On	Off	On	Off	Off	24
	Off	On	On	Off	Off	28
	Off	On	Off	On	Off	32
	On	Off	Off	Off	Off	36
	Off	Off	On	Off	Off	40
	On	Off	Off	On	Off	48
	Off	Off	Off	Off	Off	52
	Off	Off	Off	On	Off	64
S6	On*					Reserved
S7	Off*					Reserved
S8	On*					Colour Display
	Off					Mono

## Switch 2

Jumper	Position	Function
W3	Out*	Reserved
S1	Off*	Reserved
S2	On	33 MHz
	Off	40 MHz Possibly same for SW1-8
S3	Off*	Reserved
S4	Off*	Reserved
S5	Off*	Reserved
S5	Off*	Reserved
S7	Off*	Reserved
S8	Off*	Reserved

## Baby Gemini 486(/50)

Jumper	Position	Function
W1	1-2	256K cache
	Out	64K cache
W4	1-2	32Kx8 SRAM
	Out	8Kx8 SRAM
W15	1-2	256K cache interleave
	2-3	64K cache interleave
J100	1-2	Reserved
J101	2-3	Reserved

## Switch 1

Jumper	Position	Function
S1	Off*	Reserved
S2	Off*	Reserved
S3	On*	Reserved
S4	Off*	Reserved
S5	Off*	Reserved
S5	Off*	Reserved
S7	On*	Reserved
S8	Off*	Reserved

## Switch 2

Switch	Position					Function
S1-5	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	On	1
	Off	On	On	On	On	2
	On	Off	On	On	On	3
	Off	Off	On	On	On	4

Switch	Position				Function	
	On	On	Off	On	On	4
	On	On	Off	Off	On	5
	On	Off	On	Off	On	6
	Off	On	On	Off	On	7
	Off	On	Off	On	On	8
	On	Off	Off	Off	On	9
	Off	Off	On	Off	On	10
	On	Off	Off	On	On	12
	Off	Off	Off	Off	On	13
	Off	Off	Off	On	On	16
	On	On	Off	On	Off	16
	On	On	Off	Off	Off	20
	On	Off	On	Off	Off	24
	Off	On	On	Off	Off	28
	Off	On	Off	On	Off	32
	On	Off	Off	Off	Off	36
	Off	Off	On	Off	Off	40
	On	Off	Off	On	Off	48
	Off	Off	Off	Off	Off	52
	Off	Off	Off	On	Off	64

*Baby Gemini 486DX2*

Jumper	Position		Function
W3,4	<b>W3</b>	<b>W4</b>	<b>External cache</b>
	Out	Out	64K
	In	In	256K
W15	1-2		256K cache interleave
	2-3		64K cache interleave

Switch 1

Jumper	Position	Function
S1	Off*	Reserved
S2	Off*	Reserved
S3	On*	Reserved
S4	Off*	Reserved
S5	Off*	Reserved
S5	Off*	Reserved
S7	On*	Reserved
S8	Off*	Reserved

Switch 2

Switch	Position					Function
S1-5	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	On	1
	Off	On	On	On	On	2
	On	Off	On	On	On	3
	Off	Off	On	On	On	4
	On	On	Off	On	On	4
	On	On	Off	Off	On	5
	On	Off	On	Off	On	6
	Off	On	On	Off	On	7
	Off	On	Off	On	On	8
	On	Off	Off	Off	On	9
	Off	Off	On	Off	On	10
	On	Off	Off	On	On	12
	Off	Off	Off	Off	On	13
	Off	Off	Off	On	On	16
	On	On	Off	On	Off	16
	On	On	Off	Off	Off	20

Switch	Position					Function
	On	Off	On	Off	Off	24
	Off	On	On	Off	Off	28
	Off	On	Off	On	Off	32
	On	Off	Off	Off	Off	36
	Off	Off	On	Off	Off	40
	On	Off	Off	On	Off	48
	Off	Off	Off	Off	Off	52
	Off	Off	Off	On	Off	64
S6	On*					Reserved
S7	Off*					Reserved
S8	On*					Colour Display
	Off					Mono 256K cache? 64K cache?

### Baby Gemini 486SX

Switch	Position				Function
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	4
	Off	On	On	On	8
	On	Off	On	On	12
	Off	Off	On	On	16
	On	On	Off	On	16
	On	On	Off	Off	20
	On	Off	On	Off	24
	Off	On	On	Off	28
	Off	On	Off	On	32
	On	Off	Off	Off	36
	Off	Off	On	Off	40
	On	Off	Off	On	48
	Off	Off	Off	Off	52
	Off	Off	Off	On	64
S5,8	On*				Reserved
S6,7	Off*				Reserved

### C400

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Celeron	Slot 1
Speeds (MHz)		
Chipset	440 BX	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	1 each shared
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		AGP
Performance		Substandard

### Mini 486

Jumper	Position	Function
W1	1-2*	Normal ops
	2-3	Discharge CMOS
W3	In	Colour display
	Out	Mono

Jumper	Position	Function
W12	1-2	Overdrive/487SX
	2-3	SX/DX/DX2

**JX 30**

Part number 09-00183-xx. There is an LED between slots #5 and #6

Item	Description	Notes
Form Factor	Baby AT	
CPU		ZIF socket for Overdrive
Bus	7 ISA/2 VL	
Memory (Mb)		4 SIMM sockets
I/O	IDE, floppy, 2S 1P	

Jumper	Position	Function
S1-4	<b>S1</b>	<b>Motherboard Speed</b> 33 MHz 25 MHz
	Off	
	On	
W5	1-2	LPT Input mode (scanner)
	2-3	LPT Output mode
W6	In	Colour monitor installed
	Out	Mono
W8	1-2	Flash ROM in recovery mode
	2-3	Normal - jumper NOT moved for Flash update
W11		IDE LED
W12		Reset
W13		Turbo LED
W14		Turbo switch
W31		Clear CMOS
W40		Must be removed to support local bus DMA when Local Bus Master controllers are installed.
W64-68	<b>W64</b>	<b>Cache</b> 64K 128K 256K
	1-2	
	2-3	
	2-3	
W70	1-2	486SX
	2-3	486DX, 486DX2 & P24T
W71	1-2	PQFP 486SX with Overdrive SX
	2-3	PQFP 486SX with DX, or DX2 CPU
J6		Battery Connector
J33		Speaker
J34		Keylock/Power

**JX 30G**

Part number 09-00189-xx. There is an LED between slots #5 and #6

Item	Description	Notes
Form Factor	Baby AT	
CPU		ZIF socket for Overdrive
Bus	7 ISA/2 VL	
Memory (Mb)		4 SIMM sockets
I/O	IDE, floppy, 2S 1P	

Jumper	Position	Function
S1-4	<b>S1</b>	<b>Motherboard Speed</b> 33 MHz 25 MHz
	Off	
	On	



<i>Jumper</i>	<i>Position</i>						<i>Function</i>
W2	In						Colour monitor installed
	Out						Mono
W3	In						PS/2 mouse IRQ12 enabled
	Out						Disabled
W4							Must be removed to support local bus DMA when Local Bus Master controllers are installed.
W5							Clear CMOS
W7	1-2						LPT Input mode (scanner)
	2-3						LPT Output mode
W8	1-2						Flash ROM in recovery mode
	2-3						Normal - jumper NOT moved for Flash update
W10,11	<b>W10</b>	<b>W11</b>	<b>W22</b>	<b>W23</b>	<b>W24</b>	Cache	
22-24	1-2	1-2	2-3	2-3	1-2	64K	
	1-2	2-3	1-2	1-2	2-3	128K	
	2-3	2-3	2-3	2-3	2-3	256K	
W12	1-2						486SX
	2-3						486DX, 486DX2 & P24T
W13	1-2						PQFP 486SX Enabled
	2-3						Disabled
W16,17	<b>W16</b>	<b>W17</b>				Cache	
	1-2	2-3				64K	
	1-2	2-3				128K	
	2-3	2-3				256K	
W18							Turbo LED
W19							Turbo switch
W20							Reset
W21							IDE LED
W71	1-2						with Overdrive SX
	2-3						PQFP 486SX with DX, or DX2 CPU
J8							Battery Connector
J30							Speaker
J31							Keylock/Power

### JX 30GC

Part number 09-00203-xx. There is an LED between slots #5 and #6

Item	Description	Notes
Form Factor	Baby AT	
CPU		ZIF socket for Overdrive
Bus	7 ISA/2 VL	
Memory (Mb)		4 SIMM sockets
I/O	IDE, floppy, 2S 1P	

<i>Jumper</i>	<i>Position</i>					<i>Function</i>	
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	Motherboard Speed		
	Off	On	Off	Off	33 MHz		
	Off	On	Off	Off	25 MHz		
W2	In					Colour monitor installed	
	Out					Mono	
W4							Must be removed to support local bus DMA when Local Bus Master controllers are installed.
W5							Clear CMOS
W8	1-2						Flash ROM in recovery mode
	2-3						Normal - jumper NOT moved for Flash update
W12	1-2						486SX
	2-3						486DX, 486DX2, 486DX/4 & P24T

<i>Jumper</i>	<i>Position</i>					<i>Function</i>
W13	1-2 2-3					PQFP 486SX Enabled Disabled
W10,11 22-24	<b>W10</b>	<b>W11</b>	<b>W22</b>	<b>W23</b>	<b>W24</b>	Cache (W/T) 64K 128K 256K
	1-2	1-2	2-3	2-3	1-2	
	1-2	2-3	1-2	1-2	2-3	
	2-3	2-3	2-3	2-3	2-3	
W16,17	<b>W16</b>	<b>W17</b>				Cache (W/B) 64K 128K 256K
	1-2	2-3				
	1-2	2-3				
	2-3	2-3				
W18						Turbo LED
W19						Turbo switch
W20						Reset
W21						IDE LED
W36	1-2					LPT IRQ7
	2-3					LPT IRQ5
W37						Reserved
W38						Reserved
W71	1-2					with Overdrive SX
	2-3					PQFP 486SX with DX, or DX2 CPU
J8						Battery Connector
J30						Speaker
J31						Keylock/Power

**VL-Bus**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W13	1-2	DX/DX2
	2-3	SX
W16	2-3	LPT output mode
	1-2	LPT input mode
W20	2-3	Flash memory normal
	1-2	Flash memory recovery

**SW 8**

<i>Switch</i>	<i>Position</i>				<i>Function</i>
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Total Memory (Mb)</b>
	On	On	On	On	4
	Off	On	On	On	8
	On	Off	On	On	12
	Off	Off	On	On	16
	On	On	Off	On	16
	On	On	Off	Off	20
	On	Off	On	Off	24
	Off	On	On	Off	28
	Off	On	Off	On	32
	On	Off	Off	Off	36
	Off	Off	On	Off	40
	On	Off	Off	On	48
	Off	Off	Off	Off	52
	Off	Off	Off	On	64
S5-8	<b>S5</b>	<b>S6</b>	<b>S7</b>	<b>S8</b>	<b>CPU</b>
	Off	On	Off	Off	33 MHz DX2-66
	On	Off	On	Off	25 MHz DX2-50

**M4Pi**

<b>Item</b>	<b>Description</b>	<b>Notes</b>
Speeds (MHz)	486	DX4, P24T
Chipset	Intel 82420 (Saturn)	

Item	Description	Notes
BIOS	Phoenix Flash	
Bus	3 PCI/6 ISA	1 each shared. Extra dedicated ISA slot
Memory (Mb)	128 Mb	4 72-pin sockets
Cache (K)	512 W/B	256 standard

### M5Pi

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	60, 66	
Chipset	Intel 82430 (Mercury?)	
BIOS	Phoenix Flash	
Bus	3 PCI/5 ISA	1 each shared
Memory (Mb)	128 Mb	4 72-pin sockets
Cache (K)	512 W/B	256 standard

### M54pi

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	90	
Chipset	Neptune	
BIOS	Phoenix Flash	
Bus	3 PCI/5 ISA	1 each shared
Memory (Mb)	128	4 72-pin sockets
Cache (K)	512 W/B	256 standard

### Micom

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	MTX A512 TXPro+		

### MicroStar International (MSI)

[www.msi.com.tw](http://www.msi.com.tw)

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	586MC1 MS 5103	AC	MS 6119
1-00	MS 4135	AC-00	MS 5148
1C-00	MS 5106 or 596MC2	AC	MS 5128
9-00	MS 5117	AL-00	MS 5148
9C	MS 6117/5145/5146/5147	BC-00	Ingersoll 17M
9C-00	MS 5137/5117	CC-00	MS 5156 v1.1

### K7T Pro

Item	Description	Notes
Form Factor	ATX	
CPU		Socket A
Chipset	Via KT133	
Bus	6 PCI	

Item	Description	Notes
Memory (Mb)		3 DIMM sockets
I/O	PS/2 Mouse and Keyboard, 2 USB, 2 serial, 1 parallel, 2 EIDE, floppy	
Video		AGP

**LX1**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	200-333	
Chipset		
BIOS	AMI 1.2	
Bus	4 PCI/3 ISA	
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets
Video		AGP
Performance		Average

**LX4**

Item	Description	Notes
Form Factor	ATX	
CPU	2 Pentium II	Slot 1
Speeds (MHz)	333	
Bus	5 PCI/2 ISA	
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets
Performance		Below average

**MS 5169**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Super Socket 7
Speeds (MHz)		4.5 x CPU clock
Chipset	Ali Aladdin V	
BIOS	AMI HiFlex 1.2	
Bus	4 PCI/3 ISA	100 MHz
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)	512K	
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Performance		Good – but behind TMC T15VG+
Comments		Inexpensive

**MS 6119**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Chipset	440 BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	100 MHz
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Performance		Quick, but Soyo SY-6BA+ is faster
Comments		Good documentation

*MS 6167*

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Speeds (MHz)		100 FSB
Chipset	AMD-750	
BIOS	Award	
Bus	5 PCI/2 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	The usual	
Video		AGP 2x

*MS 6182*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1 500 MHz
Chipset	Intel 810E	
Bus	6 PCI/1 ISA	AMR with TV-out
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA/66
Audio	ESS ES1373	

*MS 6195*

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Chipset	AMD 751/756	
BIOS	Award	
Bus	6 PCI/1 ISA	AMR with TV-out
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA/66
Video	AGP	2x
Comments		Fast memory performance

*MS 815E Pro*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/733	FSB 166
Chipset	Intel 815E	
BIOS	Award	
Bus	6 PCI	UDMA/100
Memory (Mb)	512 Mb	4 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video	Intel 815 GMCH	AGP 4x
Audio	Sigmatel STAC9708T	

*MINT data*

Rebadges Biostars.

## Mirage

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	M54PS		

## MiTAC

[www.mitac.mic.com.tw](http://www.mitac.mic.com.tw)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	PH 4500AM or LH 4077C/D	9C-00	PH 5400V
2C-00	PH 4500AU		

### LH 4077D

Digicom? AT&T 1455?

## Mitsuba

[www.mitsuba.com](http://www.mitsuba.com)

## Mitsubishi

[www.mitsubishi-computers.com](http://www.mitsubishi-computers.com)

Division closed

## MLE

(800) 780 3486

## Motorola

[www.mcg.mot.com](http://www.mcg.mot.com)

## MSI

See MicroStar International

## M-Technology

[www.mtiusa.com](http://www.mtiusa.com) Refer also to Rise

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	R 407	A-00	R 526
1-00	R 526	AC	R 651 (Rise)/R 533
2-00	R 418	AC	R 525/R 528WP

Code	Motherboard	Code	Motherboard
2C	R 418	AC-00	R 533/R552
3C-00	R 418	BC	R 525
4C-00	R 418	CC	R533
9C	M 549	CC-00	R 534G
9C-00	R 526/R 534(WP)/R-581a	HC	R525

### PCI-486

Item	Description	Notes
CPU	486	Check JP48 for correct voltage
Chipset	SiS	
BIOS	Award Flash	
Bus	3 PCI/4 ISA	
Memory (Mb)		8 30-pin sockets, 2 72-pin
Cache (K)	256	64K chips
I/O	2S, 1P, Floppy	

### R407

Jumper	Position	Function
BK SW	1-2	Suspend
JP44	1-2	VL bus 0 wait state
	2-3	VL bus 1 wait state
JP45	1-2	VL bus <=33 MHz
	2-3	VL bus >33 MHz
JP50	1-2	Normal
	2-3	Discharge CMOS
JP60	On	Doze mode
JP61	On	Suspend mode
JP62	On	CGA
	Off	Mono

### Intel CPU

P24T not recommended, but set as P24D and cut one end of resistor R24

Jumper	DX/2/4	486SX	P24D
JP1	Open	Open	Open
JP2	3-4	3-4	1-2
JP3	Open	Open	2-3
JP4	2-3	2-3	1-2
JP5	2-3	2-3	1-2
JP6	1-2	1-2	1-2
JP7	2-3	2-3	2-3
JP8	3-4	Open	3-4
JP9	1-2,3-4	2-3	1-2,3-4
JP10	3-4	3-4	1-2,3-4
JP11	4-5	4-5	4-5
JP12	Open	Open	Open
JP13	Open	Open	1-2
JP14	Open	Open	1-2
JP15	1-2=2.5x (DX4)	Open	Open
	2-3=2x (DX4)		
	Open=3x (DX4)		
JP16	1-2	1-2	1-2

### AMD CPU

Jumper	DX, DX/2 DX4-133	DX4/100 DX4/120	DX4/100 V8B DX4/120 V8B	DX4 SV8B	x5-133 x5-160
JP1	Open	Open	Open	Open	Open

Junper	DX, DX/2 DX4-133	DX4/100 DX4/120	DX4/100 V8B DX4/120 V8B	DX4 SV8B	x5-133 x5-160
JP2	3-4	3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP3	Open	Open	2-3	2-3	2-3
JP4	2-3	2-3	1-2	1-2	1-2
JP5	2-3	2-3	1-2	1-2	1-2
JP6	1-2	1-2	1-2	1-2	1-2
JP7	2-3	2-3	2-3	2-3	2-3
JP8	3-4	3-4	3-4	3-4	3-4
JP9	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP10	3-4	3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP11	4-5	4-5	4-5	4-5	4-5
JP12	Open	Open	Open	Open	Open
JP13	2-3	Open	1-2	1-2	1-2
JP14	Open	Open	1-2	1-2	1-2
JP15	Open	Open	Open	Open	2-3
JP16	1-2	1-2	1-2	1-2	1-2

Cyrix CPU

Junper	DX, DX/2 DX4 (5v)	DX, DX/2 DX4 (345v)	5x86-100 5x86-120	5x86 GP	x5-133
JP1	2-3	2-3	Open	Open	Open
JP2	2-3	2-3,4-5	1-2,3-4	1-2,3-4	1-2,3-4
JP3	Open	Open	2-3	2-3	2-3
JP4	2-3	2-3	2-3	2-3	2-3
JP5	1-2	1-2	1-2	1-2	1-2
JP6	2-3	2-3	1-2	1-2	1-2
JP7	1-2	1-2	2-3	2-3	2-3
JP8	3-4	3-4	3-4	3-4	3-4
JP9	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP10	2-3	2-3	1-2,3-4	1-2,3-4	1-2,3-4
JP11	2-3	2-3	4-5	4-5	4-5
JP12	Open	Open	Open	Open	Open
JP13	Open	Open	Open	1-2	Open
JP14	Open	Open	1-2	1-2	1-2
JP15	Open	Open	Open	Open	2-3
JP16	1-2	1-2	1-2	1-2	1-2

System Speed

Speed	JP25	JP38	JP40
25 MHz	Short	Open	Short
33 MHz	Short	Short	Open
40 MHz	Open	Short	Short
50 MHz	Open	Open	Open

R418

Junper	Position	Function
JP51	Open	Colour display
	Short	Mono display
JP49	1-2	Retain CMOS data
	2-3	Clear CMOS

Intel CPU

Junper	DX, DX/2, DX4	486SX	P24T	P24D
JP12	2-3	2-3	1-2	1-2
JP13	2-3	Open	1-2	2-3
JP14	2-3	2-3	2-3	2-3
JP15	Open	Open	1-2	Open
JP16	3-4	3-4	3-4	1-2,3-4
JP17	3-4	3-4	1-2	1-2



Junper	DX, DX/2, DX4	486SX	P24T	P24D
JP18	2-3	Open	Open	1-2
JP19	Open	Open	Open	Open
JP20	Open	Open	Open	1-2
JP21	Open	Open	1-2 or 3-4	Open
JP22	1-2,3-4	2-3	1-2,3-4	1-2,3-4
JP23	4-5	4-5	1-2	4-5
JP24	Open	Open	Open	2-3

#### AMD CPU

Junper	DX, DX/2, DX4 DX4-133 (V8T)	DX4/100 (V8T) DX4/120 (V8T)	DX4/100 (V8B) DX4/120 (V8B)	x5-133 x5-160
JP12	2-3	2-3	1-2	1-2
JP13	2-3	2-3	2-3	2-3
JP14	2-3	2-3	2-3	2-3
JP15	Open	Open	Open	Open
JP16	3-4	3-4	1-2,3-4	1-2,3-4
JP17	3-4	3-4	1-2,3-4	1-2,3-4
JP18	2-3	Open	1-2	1-2
JP19	Open	Open	Open	2-3
JP20	Open	Open	1-2	1-2
JP21	Open	Open	Open	Open
JP22	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP23	4-5	4-5	4-5	4-5
JP24	Open	Open	2-3	2-3

#### Cyrix CPU

Junper	DX, DX/2 DX4 (5v)	DX, DX/2 DX4 (3.45v)	5x86-100 5x86-120	5x86-133
JP12	2-3	2-3	2-3	2-3
JP13	2-3	2-3	2-3	2-3
JP14	1-2	1-2	2-3	2-3
JP15	2-3	2-3	Open	Open
JP16	2-3	2-3	1-2,3-4	1-2,3-4
JP17	2-3	2-3,4-5	1-2,3-4	1-2,3-4
JP18	Open	Open	1-2	1-2
JP19	Open	Open	Open	2-3
JP20	Open	Open	1-2	1-2
JP21	Open	Open	Open	Open
JP22	1-2,3-4	1-2,3-4	1-2,3-4	1-2,3-4
JP23	2-3	2-3	4-5	4-5
JP24	Open	Open	2-3	2-3

#### CPU Voltage

9 o'clock of CPU. If no JP48, board is 5v only.

Voltage	JP42	JP43	JP44	JP45	JP46	JP48
3.3	Short	Open	Open	Open	Open	Open
3.45	Open	Short	Open	Open	Open	Open
3.6	Open	Open	Short	Open	Open	Open
3.75	Open	Open	Open	Short	Open	Open
3.9	Open	Open	Open	Open	Short	Open
5	Open	Open	Open	Open	Open	1-2,3-4 Sh

#### System Speed

11 o'clock of CPU

Speed	JP25	JP38	JP39	JP40
25 MHz	1-2	Open	Open	Open
33 MHz	1-2	Short	Short	Open
40 MHz	1-2	Short	Open	Open

Speed	JP25	JP38	JP39	JP40
50 MHz	2-3	Open	Short	Open

R526

Item	Description	Notes
CPU	Pentium	Socket 7
Chipset	SiS 551X	
BIOS	Award 4.50pg or AMI	
Bus	3 PCI/4 ISA	
Memory (Mb)	128	30- or 72-pin sockets
Cache (K)	256	Pipelined burst. 1 Mb standard SRAM
I/O		Up to Mode 4 IDE.

R527

Item	Description	Notes
CPU	Pentium	Socket 7
Chipset	SiS	
BIOS	Award 4.50pg or AMI	
Bus	3 PCI/4 ISA	
Memory (Mb)	128	30- or 72-pin sockets
Cache (K)	256	Pipelined burst. 1 Mb standard SRAM
I/O		Up to Mode 4 IDE.

R528

Item	Description	Notes
Form Factor		
CPU	Pentium	Socket 7
Chipset	Intel 82430HX	

R529

Item	Description	Notes
Form Factor		
CPU	Pentium	Socket 7
Chipset	Intel 82430VX	

R 533

Intel 82430VX chipset settings below not complete!

Switch	Position			Function
JP3-5	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>Host bus speed</b>
	Open	Close	Open	66 MHz
JP19-21	<b>JP19</b>	<b>JP20</b>	<b>JP21</b>	<b>CPU multiplier</b>
	Open	Open	Open	3.5x
	Open	Close	Open	3x
	Close	Close	Open	2.5x
	Close	Close	Open	2x

R 534

Mustang, with SiS 5571 chipset settings below not complete!

Switch	Position			Function
JP10-12	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>Host bus speed</b>
	Close	Close	Open	66 MHz
	Open	Open	Open	75 MHz
JP18,19	<b>JP18</b>	<b>JP19</b>		<b>CPU multiplier</b>
	Open	Open		3.5x
	Open	Close		3x

Switch	Position		Function
	Close	Close	2.5x
	Close	Open	2x
JP26	1-2,3-4 close		2.4v core CPU voltage
	1-2 close		2.7v
	1-2,3-4 open		2.8v
JP27	1-2,3-4 close		3.3v CPU I/O voltage
	1-2 close		3.45v
	1-2,3-4 open		3.5v

### R 534F/G

Mustang, with SiS 5571 chipset settings below not complete! See 534 for voltage?

Switch	Position				Function
JP10-12	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>Host bus speed</b>
	Open	Open	Close	Close	66 MHz
	Close	Close	Open	Open	75 MHz
JP18,19	<b>JP18</b>	<b>JP19</b>			<b>CPU multiplier</b>
	Open	Open			3.5x
	Open	Close			3x
	Close	Close			2.5x
	Close	Open			2x

### R 540

Mustang, with Intel 430TX chipset

Switch	Position			Function
SW2	<b>1</b>	<b>2</b>	<b>3</b>	<b>Multiplier</b>
1-3	Off	Off	On	1.5x
	On	Off	Off	2x
	On	On	Off	2.5x
	Off	On	Off	3x
	Off	Off	Off	3.5x
	On	Off	On	4x
	On	On	On	4.5x
SW2	<b>4</b>	<b>5</b>	<b>6</b>	<b>Host bus</b>
4-6	On	On	Off	55 MHz
	On	Off	Off	60 MHz
	Off	Off	Off	66 MHz
	Off	On	Off	75 MHz
JP8-9	JP8	JP9		Host bus speed
	Open	Open		66 MHz
	Open	Close		75 MHz

### R543

Mustang GX

Item	Description	Notes
Form Factor	AT	4 layer
CPU	Cyrix GX86	
Speeds (MHz)	120/133/150	
Chipset	Cyrix Cx5510	
Bus	2 PCI/3 ISA	
Memory (Mb)	8-128 Mb	FPM/EDO. 4 72-pin SIMMs.
I/O	2S, 1P, Floppy, 2 IDE, PS/2	
Video	Onboard	
Audio	Soundblaster compatible	Optional soundcard

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Normal
	2-3	Clear CMOS
JP49		

### R 557

MIG, with Intel 430TX chipset

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>Multiplier</b>
	Open	Close	Close	2.5x
	Open	Close	Open	3x
	Open	Open	Open	3.5x
JP7	1-2,3-4,5-6 open			Split Rail CPU
JP8-9	<b>JP8</b>	<b>JP9</b>		<b>Host bus speed</b>
	Open	Open		66 MHz
	Open	Close		75 MHz

### R 581A

Mustang-AGP. SIS 5591/5595 chipset

<i>Jumper</i>	<i>Position</i>			<i>Function</i>		
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>	<b>Host</b>	<b>AGP</b>	<b>PCI</b>
	1-2	1-2	2-3	83.3	64	32
	2-3	1-2	2-3	75	64	32
	1-2	2-3	1-2	75	75	37.5
	2-3	2-3	1-2	68.5	68.5	34.3
	1-2	2-3	2-3	66.7	66.7	33.4
	2-3	2-3	2-3	60	60	30
JP8-10	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>Multiplier</b>		
	Open	Open	Open	1.5x		
	Close	Open	Open	2x		
	Close	Close	Open	2.5x		
	Open	Close	Open	3x		
	Open	Open	Open	3.5x		
	Close	Open	Close	4x		
	Close	Close	Close	4.5x		
	Open	Close	Close	5x		

### MTI

See M-Technology

[www.mtiusa.com](http://www.mtiusa.com)

### Mustek

(510) 475 5730

### Mycomp

Taiwan Mycomp Corp. [www.mtl.mynix.com](http://www.mtl.mynix.com). See Mynix Technology or TMC

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	AI5TV		

## Mylex

www.mylex.com

Northgate/Mylex 80486 EISA motherboard with BIOS version 6.04q is not compatible with **emm386.exe**. The newest revision is 6.15, which is compatible.

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
2-B3	MPXS486		

## MAE 486

Jumper	Position	Function
J1	In*	Cache enabled
	Out	Disabled
J2	1-2*	33 MHz CPU
	2-3	25 MHz CPU
J15		Reserved

J16 Reserved

Memory	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12
1 Mb	Out	Out	Out	Out	Out	2-3	Out	1-2	1-2	1-2
2 Mb	1-2	1-2	1-2	1-2	Out	1-2	Out	1-2	1-2	2-3
4 Mb	Out	Out	Out	Out	Out	1-2	2-3	1-2	1-2	2-3
8 Mb	1-2	1-2	1-2	1-2	Out	1-2	1-2	2-3	1-2	2-3
16 Mb	Out	Out	Out	Out	2-3	1-2	1-2	2-3	1-2	2-3
32 Mb	1-2	1-2	1-2	1-2	1-2	1-2	1-2	2-3	2-3	2-3

## MDE 486

Jumper	Position	Function	
JP1	Out	Mono display	
	In*	Colour display	
JP7,11-13	<b>JP7</b>	<b>Cache memory</b>	
	Out		64K*
	In		256K
JP8-10	<b>JP8</b>	<b>CPU</b>	
	Out		486SX
	2-3		487SX
	1-2		486DX
JP14-17	<b>JP14</b>	<b>CPU Speed</b>	
	2-3		20 MHz
	2-3		25 MHz
	2-3		33 MHz
	1-2		50 MHz (not MSI 486)
JP18	Out*	AT CLK (ISA Bus Clock)	
	In	AT CLK (ISA Bus Clock) 50 MHz (not MSI 486)	
JP19	1-2	LPT2 IRQ5	
	2-3*	LPT1 IRQ7	
JP20	1-2*	Enable all I/O ports	
	2-3	Disable	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP21	1-2	Reset CMOS
	2-3*	Internal battery
	Out	External battery

### MDI 486

As for MDE 486

### MNE 486

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J1		Reserved
J2		Reserved
J13		Reserved
J15		Reserved
J16		Reserved
J20		Reserved
J17	1-2	COM1 IRQ4
	2-3	COM2 IRQ3
J18	1-2	LPT1 IRQ5
	2-3	LPT2 IRQ7
J19	1-2	Enable I/O subsystem
	2-3	Disable

<i>Memory</i>	<i>J3</i>	<i>J4</i>	<i>J5</i>	<i>J6</i>	<i>J7</i>	<i>J8</i>	<i>J9</i>	<i>J10</i>	<i>J11</i>	<i>J12</i>
1 Mb	Out	Out	Out	Out	Out	2-3	Out	1-2	1-2	1-2
2 Mb	1-2	1-2	1-2	1-2	Out	1-2	Out	1-2	1-2	2-3
4 Mb	Out	Out	Out	Out	Out	1-2	2-3	1-2	1-2	2-3
8 Mb	1-2	1-2	1-2	1-2	Out	1-2	1-2	2-3	1-2	2-3
16 Mb	Out	Out	Out	Out	2-3	1-2	1-2	2-3	1-2	2-3
32 Mb	1-2	1-2	1-2	1-2	1-2	1-2	1-2	2-3	2-3	2-3

### MPXS486

Possibly Chaintech

### MSI 486

As for MDE 486

### MTI 386

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2*	Colour display
	2-3	Mono
JP2	2-3	2 <sup>nd</sup> port is LPT1
JP4	1-2*	Enable I/O peripherals
JP5	1-2	32Kx8 SRAM
	2-3*	32K/64K cache

### MTX 386

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	2-3	LPT1 IRQ5
JP2	1-2*	Colour display
	2-3	Mono
JP3	1-2*	Enable I/O peripherals
	2-3	Disable

**MWS 386**

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
SW1	On			32-bit memory card in Slot 8
	Off			Not installed
SW2-4	<b>SW2</b>	<b>SW3</b>	<b>SW4</b>	<b>Total Memory</b>
	Off	On	On	1 Mb
	Off	Off	On	2 Mb
	Off	On	Off	4 Mb
SW4	On			256K DRAMs
	Off			1 Mb DRAMs
SW5	On			EGA BIOS at C000
	Off			EGA BIOS at E000
SW6	On			No 80387
SW7	On			System boots at 8 MHz
	Off			System boots at 16,20,25 MHz
SW8	On			BIOS uses colour display at POST
	Off			BIOS uses mono display at POST
J25	<b>Bus speed? (MHz)</b>			<b>386/16</b> <b>386/20</b> <b>386/25</b>
	1-2			5.33    6.67    8.33
	2-3			4    5    6.25
	3-4			4    5    6.25
	4-5*			4    10    12.5
J26	1-2			128K EPROM
	2-3*			256K EPROM

**MXA 386**

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
S1-3	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>Total Memory</b>
	Off	On	Off	1 Mb
	On	On	Off	2 Mb
	Off	Off	On	4 Mb
	On	Off	On	8 Mb
	Off	On	On	16 Mb
S4	On			No cache 0C0000-0CFFFF
	Off*			Cache 0C0000-0CFFFF enabled
S5	On*			No cache 0D0000-0DFFFF
	Off			Cache 0D0000-0DFFFF enabled
S6	On			No cache 0E0000-0FFFFFFF
	Off*			Cache 0E0000-0FFFFFFF enabled
S7	On			No ISA bus memory
	Off*			ISA bus memory
S8	On*			No 80387
	Off			80387 installed
S9	On			Colour display
	Off*			Mono display
S10	On*			Cache enabled
	Off			Disabled
J1-4				Reserved

**MXS 386**

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
SW1	<b>S1</b>	<b>S2</b>	<b>Memory</b>
S1-2	Off	Off	100 ns FPM 4 page active
	Off	On	100 ns FPM 1 page active

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	On      Off	100ns non-FPM
	On      On	120ns non-FPM
SW3	Off	Disable serial port
S1	On*	Enable
S2	Off	Disable parallel port
	On*	Enable
S3	Off*	Serial port is COM1
	On	Serial port is COM2
S4	Off*	Parallel port is LPT1
	On	Parallel port is LPT2
S5	Off	IRQ3 disabled
	On	IRQ3 enabled
S6	Off	IRQ4 disabled
	On	IRQ4 enabled
J6	1-2	512K EPROM
	2-3*	256K EPROM
J8	Out*	Mono display
	In	Colour display
J10	1-2	LPT1 IRQ7
	2-3	LPT2 IRQ5

[Mynix](http://www.mtl.mynix.com)

[www.mtl.mynix.com](http://www.mtl.mynix.com)



## NEC

### APC IV 286

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
22H1	In	Determines RAS and ALE signals earlier.
S1, 6-7	Out	Normal
S2 5-8,4-9	4-9,3-10	8-bit I/O, 4 waits
S3 3-10,2-11	4-9,2-11	3 wait I/O cycle for device at 000-OFF
	5-8,3-10	2 wait I/O cycle for device at 000-OFF
S4, 1-12	In	No wait memory cycle
	Out	1 wait (normal)
S5 (18K2)	1-4	256Kx1 in Bank 0 (512K)
	2-3	256Kx1 in Bank 0, 64Kx1 in Bank 1 (640K)
	None	256Kx1 in Bank 0, 256Kx1 in Bank 1 (1 Mb)
S6 (5N2)	3-6,4-5	0E(FE) – Reserved on I/O channel
		0F(FF) – Location 7K, 7M enable
	1-8,2-7	0E(0F) - Location 7K, 7M enable 0F(FF) – Compatible ROM enable
S7 (6N1)	2-3,1-8	27128
	4-5,3-6	27256
S10(14D)	1,2,3,8,9	Reserved
	4	Enable Parallel
	5	Enable serial CH1
	6	Enable serial CH2
	7	Ch1=COM1, CH2=COM2 (Off=reversed)
S8(4N1)	3-2	EPROM ROM Type
S9(10)	2-1	MASK ROM Type
	On	Colour display
S11A	Off	Mono
	1	RS232 receive enable
S11B	8	RS232 transmit enable
	Off	Reserved
P10	1-2	16 MHz CPU
	1-3	11.7647 MHz CPU
	1-4	20 MHz CPU

**PM1 286**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
22J2	Out	ALE and RAS asserted normally
	In	Early
15K2	2-3	256Kx1 in Bank 0 (512K)
	1-4	256Kx1 in Bank 0, 64Kx1 in Bank 1 (640K)
	None	256Kx1 in Bank 0, 256Kx1 in Bank 1 (1 Mb)
14G1	1-2	EPROM
	2-3	MASK ROM
2G1	1-2	27256
	2-3	27128
20D1	2-3	Normal floppy
	1-2	Special floppy

**SW14A**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1		Reserved
S2	On	Enable LPT1
S3	On	Enable COM1
S4	On	Enable COM2
S5	On	Reserved
S6	On	Enable floppy
S7	On	Secondary floppy controller I/O address
	Off*	Primary floppy controller I/O address
S8	On	Colour display
	Off	Mono

**SW14B**

<i>Switch</i>	<i>Position</i>	<i>Function</i>		
S1-3	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>System ID</b>
	Off	On	On	APC IV Power mate 1
	On	On	On	APC IV/APC IV E
	On	Off	On	APC IV Power Mate 2
S4				Reserved
S5	On			Reserved – test Mode
S6	On			IBM Compatible ROM
	Off			Not used (selects APC Mode ROM)

**PM 286+****Switch 1**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	8 MHz 80287
	Off	10 MHz 80287
2	On	Enable video
3	On	Enable COM1
4	On	Serial port COM1 3F8h
	Off	Serial port COM2 2F8h
5	On	Enable LPT1
6	On	Enable floppy
7	On	Primary floppy controller I/O address
	Off*	Secondary floppy controller I/O address
8	On	Colour display
	Off	Mono
9	Off	Reserved
10	On	Enable Mouse

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	1-2	Serial port IRQ3
	2-3	Serial port IRQ4
S2	1-2	Enable power-on password
	2-3	Disable
S3,5	<b>S3</b>	<b>S5</b> <b>ROM Type</b>
	2-3	2-3 27C256
	1-2	1-2 27C512
S4	1-2	512K base memory
	2-3	640K base memory
S6	1-2	Standard display
	2-3	Extended mode with additional oscillator
S7	Out	Reserved
S8,9	<b>S8</b>	<b>S9</b> <b>RTC</b>
	1-2	1-2 MC146818
	2-3	2-3 DS1287

### PM1 286+

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
20H2	1-2	500/250/300/150/125 Kbps floppy transfer rate
	2-3	500/250/125 Kbps
12J2	1-2	27128
	2-3	27256
12J3	1-2	MASK ROM
	2-3	EPROM

### SW16C1

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	8 MHz clock
	Off	12 MHz clock
2	On	Enable LPT1
3	On	Enable COM1
4	On	Enable COM2
5	Off	Reserved
6	On	Enable floppy
7	On	Secondary floppy controller I/O address
	Off*	Disable system board floppy
8	On	Colour display
	Off	Mono

### SW16B2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	Off	Reserved
S2	On	Reserved
S3	Off	Reserved
S4	On	Reserved
S5	On	Test mode off
	Off	Test mode on
S6	On	Reserved

### PM 386

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
14L2	1-2	CPU address pipeline mode
	2-3	CPU address non-pipeline mode

SW1

Switch	Position	Function
01-3	01	Unit ID
	02	03
	On	On
	Off	Off
04	Off	Reserved
05	On	Test mode off
	Off	Test mode on
06	On	0 wait state
	Off	1 wait state

SW2

Switch	Position	Function
01	On	Colour display
	Off	Mono
02	On	Floppy secondary address
	Off	Floppy Primary address
03	On	Enable floppy
04	On	Enable COM2
05	On	Enable COM1
06	On	Enable LPT1
07	On	Enable maths coprocessor
08	On	80387
	Off	80287
09	Off	Reserved
10	Off	Reserved

PM1 386/33e

Jumper	Position	Function
2N1	In	Test Mode on
	Out	Test Mode off
12C3	In	Enable pipeline mode
	Out	Disable pipeline mode
12C2	In	385 reserve 1 pin is tied low
	Out	385 reserve 1 pin is tied high
10B1	1-2	385 READY output to CPU delayed till end of posted write cycle on 385 local bus
	2-3	385 READY output to CPU transparent to CPU
16F1	In	Insert 3 BCLK (16-bit cycles) or 11 BCLK (8-bit cycles) between back-back ISA I/O cycles from the CPU for I/O recovery time.
	Out	Insert 1 BCLK between back-back ISA 8/16-bit I/O cycles from the CPU for I/O recovery time.
13G1	1-2	25 MHz CPU speed
	2-3	33 MHz CPU speed
10H1	1-2	Enable password
9M1	In	Enable manufacturing switch
3E1	1-2	500/250/300/150/125 Kbps floppy transfer rate
	2-3	500/250/125 Kbps
16C2	1-2	MMRTO input tied low
	2-3	MMRTO input tied high
16C3	1-2	MMRT1 input tied low
	2-3	MMRT1 input tied high
16C4	1-2	MMWT input tied low
	2-3	MMWT input tied high

SW1

Switch	Position	Function
S1	On	Enable LPT1
S2	On	Enable COM1
S3	On	Enable COM2
S4	On	Enable floppy

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S5	On	Select second drive B
	Off	First drive A
S6	On	Enable 80387
S7	On	Base memory 0-512K
	Off*	Base memory 0-640K
S8	On	Enable PS/2 mouse
S9	On	Colour display
	Off	Mono
S10	On	Reserved

### PM 386sx

#### SW115G

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	Colour display
	Off	Mono
2	On	First diskette A
	Off	First diskette B
3	On	Enable diskette controller
4	On	Serial port is COM1
	Off	Serial port is COM2
5	On	Enable serial port
6	On	Enable LPT1
7	On	Enable maths coprocessor
8	On	Enable integrated VGA
9	On	0-512K
	Off	0-640K
10	On	Enable PS/2 mouse

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	1-2	Non-pipeline mode
	2-3	Pipeline mode
S2	1-2	Enable security lock
S3	1-2	Serial port has COM1 IRQ
	2-3	Serial port has COM2 IRQ
S4	In	Enable reset
S5	Out	Reserved
S6	1-2	RTC battery backup
	2-3	RTC backup Vcc 5v
S7	1-2	Power good MC 146818
	2-3	Power good DS 1287
11L2	Out	Test mode off
	In	Test mode on

### PM 386sx 16i

#### SW1

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	On	Disable onboard video
S2	On	Disable floppy
S3	On	Disable password
S4	On	Prevent password reprogramming

## SW2

Switch	Position	Function
	Out	Test mode off

## PM 386sx 20

## SW14F

Switch	Position	Function
1	On	Colour display
	Off	Mono
2	On	First diskette A
	Off	First diskette B
3	On	Enable diskette controller
4	On	Serial port is COM1
	Off	Serial port is COM2
5	On	Enable serial port
6	On	Enable LPT1
7	On	Enable KB controller D1 command intercept
8	On	Enable integrated VGA
9	On	0-512K
	Off	0-640K
10	On	Enable PS/2 mouse

Jumper	Position	Function
J1	1-2	Disable password
	2-3	Enable
J2	1-2	Enable IDE
	2-3	Disable
J3	1-2	Serial port has COM2 IRQ
	2-3	Serial port has COM1 IRQ
J5	Out	Reserved
J7	1-2	27C512 ROM BIOS
	2-3	27C256 ROM BIOS
J8	1-2	Disable VGA
10K2	Out	Test mode off
	In	Test mode on

## PM 386sx 20vi

As for PM386 16I

## PM 386sx 33i

As for PM386 16I except:

Switch	Position	Function
JP7	1-2	LPT1 IRQ5
	2-3	LPT1 IRQ7

## PM 486-20e

Jumper	Position	Function
3F1	1-2	Disable password
11B5	Out	Disable I/O recovery
15A1	Out	VGA adapter not installed
15C3	1-2,5-6	LPT1=IRQ7, LPT2 IRQ5
	2-3,4-5	LPT1=IRQ5, LPT2 IRQ7
15K1	Out	Disable manufacturing loop jumper

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
17H1	1-2	Enable write data to Flash ROM
18F1	1-2	27C256 (28F256) BIOS ROM
	2-3	27C512 (28F512) BIOS ROM
10A1	Out	Test mode off
	In	Test mode on
15A2	1-2	Processor board normal operation
	2-3	Test mode
15A3	1-2	Normal operation
	2-3	Test mode

### *PM 486-33e*

As for PM 486-20e

### *PM 486-50e*

As for PM 486-20e

### *PM 486sx 25i*

As for PM386 16I except:

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP7	1-2	LPT1 IRQ5
	2-3	LPT1 IRQ7
JP9	1-2	SX/DX2
	2-3	DX

### *PM 486DX 33i*

As for PM 486sx 25i

### *PM 486DX 50i*

As for PM 486sx 25i

## NewStar Engineering

[www.computersources.com.hk/newstar](http://www.computersources.com.hk/newstar)

## Newtech International

SMT boards?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
BC-00	P55VX3		

## Nexcom

## Niagara SMD

[www.niagaratech.com](http://www.niagaratech.com)

NMC Peripherals Europe

www.nmc-pe.de

Novell

286A

Jumper	Position				Function
J3,8	<b>J3</b>	<b>J8</b>			Enables SW1-1 (Wait/No wait) Disables SW1-1 (Wait only)
J4	In				Enable LPT1
J5	In				Enable COM1
J6	In				Enable COM2
J7	In				64K RAM
	Out				256K RAM
J11-14	<b>J11</b>	<b>J12</b>	<b>J13</b>	<b>J14</b>	<b>Boot ROM size</b>
	In	Out	In	Out	64K
	Out	In	Out	In	256K
J33	In				6 MHz CPU
	Out				8 MHz CPU
J38	1-2				Ignore power good
	2-3				Enable power good
J39	1-2				External battery
	2-3				internal battery

SW1

Switch	Position	Function
S1	On	No wait state
	Off	Wait state
S2		Reset
S3	M	Mono display
	C	Colour

286B

SW1

Switch	Position	Function
S1	On	256K RAM chips
	Off	64K RAM chips
S2	On	Enable 512-640K
S3	On	Memory Bank 2 enabled
S4	On	PC compatible keyboard
	Off	AT compatible keyboard
S5	On	Serial port is console monitor
	Off	Keyboard/monitor as console
S6	On	Serial port is COM1
	Off	Serial port is COM3
S7	On	Parallel port is LPT2
	Off	Parallel port is LPT4
S8	On	Colour display
	Off	Mono
E2	In	Reserved
J32	In	Reserved



## 386A

## SW1

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
S1	On	COM1 disabled
S2	On	COM2 disabled
S3	On	Parallel port disabled
S4	On	Parallel port is LPT2
	Off	Parallel port is LPT1
S5	On	COM1 IRQ4 (S6 & 7 off)
	Off	Deselect
S6	On	COM1 IRQ3 (S5 & 8 off)
	Off	Deselect
S7	On	COM2 IRQ4 (S5 & 8 off)
	Off	Deselect
S8	On	COM2 IRQ3 (S6 & 7 off)
	Off	Deselect
S9	On	Parallel port IRQ7 (S10 off)
	Off	Deselect
S10	On	Parallel port IRQ5 (S9 off)
	Off	Deselect

<i>Switch</i>	<i>Position</i>	<i>Function</i>
W3	2-3	Reserved
W4	2-3	Reserved
W8		Reserved
W12		Reserved
J13		Reserved
J14		Reserved

## NTC Technologies

See Ozzo

*Notes*



## Ocean

Ocean Office Automation. [www.ocean-usa.com/ocean](http://www.ocean-usa.com/ocean). See Octek

## Octek

Ocean Office Automation. [www.oceanhk.com](http://www.oceanhk.com)

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0-00	Bison VI PCI	9C-00	Rhino 15
1-00	Hippo 12 VIP	AC-00	Rhino 12+
9C	Rhino 6	DC	Rhino 6VX
9C	Rhino 9		

## Olivetti

### CP 486

JP1	Disable system password
-----	-------------------------

### M21

#### SW Bank 0

Switch	Position				Function
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>Memory</b>
	Off	On	On	On	128K
	On	Off	On	On	256K
	Off	Off	On	On	384/256K on m'b + 128K exp
	On	On	Off	On	512/256K on m'b + 256K exp
	Off	On	Off	On	640/256K on m'b + 384K exp
	On	On	On	Off	512k in bank 0
	Off	On	On	Off	640/512K in bk 0 + 128K bk 1
	Off	On	Off	Off	640/128K in bk 0 + 512K bk 1

Switch	Position	Function
5	Off	Coprocessor installed
6	Off	8250 ACE asynchronous installed
7		Reserved
8	On	RAM Bank 0
	Off	RAM Bank 0 & 1

SW Bank 1

Jumper	Position	Function		
1	On	360K floppies Off=720K floppies		
2	On	800ns startup speed		
	Off	250ns startup speed		
3	On	HDU ROM code on motherboard		
	Off	HDU ROM code on controller		
4	On	Scroll display		
	Off	Slow scroll video		
5,6	<b>5</b>	<b>6</b> <b>Video adapter</b>		
	Off	Off Mono 80x25		
	Off	On CGA 40 x 25		
	On	Off CGA 80 x 25		
7,8	On	On EGA (1.43 BIOS only)		
	<b>7</b>	<b>8</b> <b>Floppies</b>		
			On	1 drive
			Off	2 drives

M24

SW Bank 0

Switch	Position	Function
1-4	<b>1</b>	<b>2</b> <b>3</b> <b>4</b> <b>Memory</b>
	Off	On On On 128K/64K DRAMs
	On	Off On On 256K/64K DRAMs
	Off	Off On On 384/256K on m'b + 128K exp
	On	On On Off 512K in bk 0 on m'b
	On	On Off On 512/256K on m'b + 256K exp
	Off	On Off On 640/256K on m'b + 384K exp
	Off	On On Off 640/512K in bk 0 + 128K bk 1
Off	On Off Off Off 640/128K in bk 0 + 512K bk 1	
4	Off	256K DRAMs used
5	Off	8087 installed
6	Off	8250 ACE asynchronous installed
7		Reserved
8	On	2732 EPROM
	Off	2764 EPROM

SW Bank 1

Jumper	Position	Function
1	On	48 tpi floppies (320K)
	Off	96 tpi floppies (1.2 Mb)
2	On	Slow start up for MFD (Off=Fast)
3	On	HDU ROM code on motherboard
	Off	HDU ROM code on controller
4	On	Standard display controller
	Off	Non-standard display controller
5,6	<b>5</b>	<b>6</b> <b>Video adapter</b>
	Off	Off Mono
	Off	On CGA 40 x 25
7,8	On	Off CGA 80 x 25
	7 On	8 On
7 Off	8 On	2 drives

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
B	1-2	8 MHz floppy controller
	2-3	4 MHz floppy controller
G	Out	Enable floppy controller
H	1	8 MHz 8087
	2	10 MHz 8087

### M24SP

As for M21, except:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
B	1-2	8 MHz floppy controller
	2-3	4 MHz floppy controller
C,E	In	Production Test
	Out	Normal
G	Out	Enable floppy controller
H	1	8 MHz 8087
	2	10 MHz 8087

### M240

#### SW A

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1,2	<b>S1</b>	<b>S2</b>	<b>Memory size</b>
	On	On	Disabled
	On	Off	256K
	Off	On	512K
	Off	Off	640K
S3	On	EGC present	
S4,5	<b>S4</b>	<b>S5</b>	<b>Mini floppies</b>
	On	On	1
	Off	On	2
	On	Off	3
	Off	Off	4
S6,7	<b>S6</b>	<b>S7</b>	<b>Display type</b>
	On	On	EGA, INS or CRT not there
	Off	On	Colour 40x25
	On	Off	Colour 80x25
	Off	Off	Mono
8	On	No coprocessor	
	Off	Coprocessor installed	

#### SW B

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
1	On	720K floppy
	Off	1.44 Mb floppy
2	On	5.25" floppy as A
	Off	3.5" floppy as A
3	On	5.25" floppy as B
	Off	3.5" floppy as B
4	On	Floppy enabled
5	On	BIOS HD on system
	Off	BIOS HD on controller or no HD
6	On	OGC controller installed
	Off	Other video (CGA etc)
7	On	Serial enabled

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
8	On	Parallel enabled
JP1	1-2	360K floppy disk change signal enabled
JP2	2-3	720K, 1.2, 1.44 Mb floppy disk change signal enabled
JP3	Out	Factory testing only
JP4	In	Calibration of system board disk drive
JP5	Out	Factory testing only
JP6	Out	Factory testing only
JP7	In	Normal operations
JP8	Out	Disable BIOS
JP9	In	Reserved

M28

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JU1	1-16	512K on system board	
	2-15	2764/27128 User EPROM	
	3-14	27256 User EPROM	
	4-13	27128 BIOS EPROM	
	5-12	27256 BIOS EPROM	
	6-11	Enable parallel port	
	7-10	Disable serial port	
JU2	1-16,4-13	5.33 MHz coprocessor	
	2-15,3-14	8 MHz coprocessor	
	5-12	Video adapter only	
	6-11	Video adapter + EGC	
	5-12,6-11	External video adapter	
JU3	1-8	Reserved	
	2-7	Colour display (Out=mono)	
	3-6	Reserved	
	4-5	Reserved	
JU4,5	<b>JU4</b>	<b>JU5</b>	
	In In	In Production	
JU6-8	Out Out	Out Test	
	<b>JU6</b>	<b>JU7</b>	<b>JU8</b>
	In Out Out	Out 4	<b>CPU Wait State</b>
	Out In In	Out 5	6

M280

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JU1	1-16	512K on system board
	2-15	2764/27128 User EPROM
	3-14	27256 User EPROM
	4-13	27128 BIOS EPROM
	5-12	27256 BIOS EPROM
	6-11	Enable parallel port
	7-10	Disable serial port
	8-9	Reserved – always out
	JU2	1,2,3,4
5-6		Flicker matrix video (Out=Dual port PGC or OEC video)
7		External system clock (Out=24 MHz)
8		80287 3 wait state (Out=10)
JU3-1	Out	Disable burn-in
	In	Enable
2	Out	Mono display
	In	Colour
3	Out	32 MHz clock disconnected
	In	Connected

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
4	Out	Reserved
JU4	Out In	14 MHz clock disconnected Connected
JU5	Out In	1.8 MHz clock disconnected Connected
JU6	Out In	8 MHz system clock 12 MHz system clock
JU7	Out In	12 MHz system clock 8 MHz system clock
JU8	In	MC146818 and RAM
JU9	Out In	MC146818 clock Non-volatile RAM
JU10,11,12	Out In	8 MHz 80287 12 MHz 80287

## M290

### Processor board

#### One version

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1,2	<b>S1</b>	<b>S2</b>	<b>Memory</b>
	On	On	512K
	On	Off	1 Mb
	Off	On	2 Mb
	Off	Off	2 Mb + 256K
S3	On		OEC/OVC adapter
	Off*		PGC/other adapter
S4	On		Burn-in
	Off		Normal
P1	1-2		256-512K RAM module
	2-3		1 Mb RAM module
P2	Off		Reserved
P3	Off		Reserved

#### Another version

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
1	On	OEC is secondary video controller
	Off*	OEC is primary video controller
2	On*	Colour
	Off	Mono
3	On*	Reserved – leave On
4	On	CGA emulation primary mode
	Off*	EGA emulation primary mode
5	On	CGA mode only
	Off*	EGA/CGA mode
6	Off*	Reserved – leave Off

## M250

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
P1,2	<b>P1</b>	<b>P2</b>	<b>SIMM type</b>
	In	Out	256x9, 512x9 (Bank 0)
	Out	Out	256x9, 512x9 (Bank 0&1)
	In	In	1 Mbx9 (Bank 0)
	Out	In	Reserved
P6	1-2		40 Mb HD

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	20 Mb HD
P8	In*	Battery connected
	Out	Not connected

### M250E

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
P1,2	<b>P1</b>	<b>P2</b>	
	1-2	1-2	1 Mb, no SIMM
	2-3	2-3	2 Mb, 2 512K SIMM
	3-4	3-4	4 Mb, 2 512K SIMM + 2 1 Mb
P6	1-2	1:1 HD interleave	
	2-3	1:3 HD interleave	
P8	In	Battery connected	
	Out	Not connected	
P9	In	16 MHz floppy	
	Out	1.2 Mb floppy	
P10	In	HD not installed	
P11	In	Disable serial port	
P12	1-2	Enable VGA	
	2-3	Disable	
P15	In	Selectable hysteresis	
	Out	Normal hysteresis	
P20	In	187ns precomp	
	Out	125ns precomp	

### M300

#### Processor board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP1,2	<b>JP1</b>	<b>JP2</b>	
	In	Out	100ns DRAM
	In	In	120ns DRAM
	Out	Out	100ns FPM, 4 DRAM pages active
	Out	In	100ns FPM, 1 DRAM page active
JP3	In	Normal	
	Out	Reserved	
JP5	In	Normal	
	Out	Reserved	
JP6	1-2	A20GATE signal activated through keyboard controller	
	2-3	A20GATE signal activated in fast mode (through chipset)	
JP4,7-8,10	All 1-2	For 82335B	
	All 2-3	For 82335A	
JP9	In	Video adapters, BIOS on board	
	Out	Video adapters, no BIOS on board	
JP11	In	Enable IRQ12 for mouse	
	Out	Disable	

### M380T

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W010	In	14 MHz clock
A05BB	In	32 MHz clock
W1131	In	24 MHz clock
K0539	In	1.8 MHz clock
W07FD	In	Test burn-in mode
	Out	Normal operation
W07FQ	In	PGC or OEC video controller
	Out	Others



<i>Jumper</i>	<i>Position</i>	<i>Function</i>
F01LQ	In	80387 uses external oscillator on system board F01L3
	Out	Uses system oscillator
Z12LU	1-2,5-6	Normal floppy operation

### M380/XP1

As for M380T

### M380/XP3

As for M380T

### M380/XP4

As for M380T

### M380/XP5

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JPR1,2	<b>JPR1</b>	<b>JPR2</b>	<b>82385 clock</b>
	1-2	2-3	25 MHz
	2-3	1-2	33 MHz
JPR4	2-3		Enable 12-16 Mb RAM as cache
	1-2		12-16 Mb RAM managed by I/O controller
	None		Disabled
JP1,2	<b>JP1</b>	<b>JP2</b>	<b>Processor speed</b>
	In	In	16 or 20 MHz
	Out	In	25 MHz (not used)
	In	Out	33 MHz
JP3,4	Out	Out	40 MHz (not used)
	<b>JP3</b>	<b>JP4</b>	<b>Bank (memory type)</b>
	In	In	0 (1 Mbx9 – 4 Mb)
	Out	In	0 & 1 (Mbx9 – 8 Mb)
JP5	In	Out	0 (16 Mbx9 – 16 Mb)
	Out	Out	0 & 1 (4 Mbx9 – 32 Mb)
	In		Enable system board RAM
	Out		Enable coprocessor clock
JP6			System clock
	In		386 pipeline operating mode
JP7	Out		Non-pipeline
	In		System serial port clock
JP8	Out		External serial port clock
	<b>JP9</b>	<b>JP10</b>	<b>EPROM</b>
JP9,10	In	Out	256K
	Out	In	512K
JP11,12	<b>JP11</b>	<b>JP12</b>	<b>Compatibility</b>
	Out	Out	Compaq
	In	In	IBM

### M380/XP7

As for M380/XP5

### M380/XP9

As for M380/XP5, except:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JPR3	2-3	Enable IRQ12 for mouse
	1-2	I/O disabled/enabled
	None	Disabled

### M486 ESDI

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1		Disable system password

### M486 SCSI

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1		Disable system password

### P500 P4.1

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP01	In	1 memory bank	
	Out	2 memory banks	
JP2,3	<b>JP2</b>	<b>JP3</b>	
		1-2	1-2
	2-3	2-3	Enable RAS 1 (Banks 0&1)
JP5	1-2	1Mb SIMMs	
	2-3	256K SIMMs	
JP10	In	Disable power-up password	

### P500 P5

As for P500 P4.1

### P750

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J3	In	Disable system password, restore default configuration
	Out	Normal

## Opti

### 3486L

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
P4	1-2				Double phase clock, 386 mode
	2-3				Single phase clock, 486 mode
P12-14	<b>P12</b>	<b>P13</b>	<b>P14</b>	<b>CPU</b>	
			1-2	1-2	Close
	2-3	Open	Close	486SX-20/25	
	1-2	2-3	Close	487SX-20/25	
P25,33,100	P25	P33	P100	CPU Type	
	1-2	Close	2-3	486 mode	
	2-3	Open	1-2	386 mode	
P28	On				Cyrix CX486DLC-33/40
	Off				Intel 386DX-33, AMD386DX-40
P30-32,P97	<b>P30</b>	<b>P31</b>	<b>P32</b>	<b>P97</b>	<b>Frequency</b> (MHz) if AV9107-03 clock chip is in U09.
	Off	On	On	Off	20
	On	Off	On	Off	25
	On	On	Off	Off	33.33
	Off	Off	On	Off	40
	Off	On	On	On	40
	On	Off	On	On	50

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
	On	On	Off	On	66.66
	Off	Off	On	On	80
P39	On				33 MHz 386
	Off				40 MHz 386
					486 speed is set in BIOS (CLK/6, etc)

### Z386S

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2 2-3	Discharge CMOS Normal
JP2	Open Close	Colour Mono
S1	Open Close	Turbo (JP3 is LED) Normal
S2		Reset

### Opus

#### PC IV 286

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
W11	2-3			HD normal operation
	1-2			Old type HD (CP342)
W12				HD LED
W14	In			Enable floppies
W15,16	<b>W15</b>	<b>W16</b>		<b>Serial port</b>
	In	In		Enable COM1
	Out	Out		Enable COM3
	Out	In		Disable COM1
	In	Out		Disable COM3
W17,18	<b>W17</b>	<b>W18</b>		<b>Serial port</b>
	In	In		Enable COM2
	Out	Out		Enable COM4
	Out	In		Disable COM2
	In	Out		Disable COM4
W13,19, 20	<b>W13</b>	<b>W19</b>	<b>W20</b>	<b>Parallel port</b>
	1-2	In	In	Enable LPT1
	2-3	Out	Out	Enable LPT2
		Out	In	Disable LPT1
		In	Out	Disable LPT2
W21	In			Enable onboard HD
W22	In			Enable game port
W23	Out In			Mono display Colour
W24	1-2 2-3			External battery Onboard battery
W25	1-2 2-3			Power fail detect circuit External power good
J9				For AA batteries

*PC V 386*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	In	CGA, EGA, VGA
	Out	MDA, HDC, Mono
J3	In	Onboard battery
	Out	External battery
JP8	2-3	Enable pipelined mode
JP10	1-2	80387 installed
	2-3	Not installed
JP11	In	Weitek 3167 installed
	Out	Not installed

*PC VII 40*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	In	CGA, EGA, VGA
	Out	MDA, HDC, Mono
JP2	1-2	Onboard battery
	2-3	Clear CMOS
	Out	External battery at J10
JP3	Out	CPU clock divided by 6 (OSCIN/6)
	In	CPU clock divided by 8 (OSCIN/8)
JP9	1-2	RA12 32K cache
		RA13 64K cache
		RA14 128K cache
	2-3	RA15 256K cache
JP12		HD LED

*Panther 386sx*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>					
JP1	1-2	Colour display					
	2-3	Mono					
JP2-4	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>Turbo pin</b>			
				In	Out	Out	8042 Turbo pin=27
				Out	In	Out	8042 Turbo pin=24
				Out	In	In	8042 Turbo pin=23
JP5	In	24mA bus driver					
	Out	12mA bus driver					
JP7	1-2	IRQ3 for mouse					
JP8	1-2	IRQ4 for mouse					
JP9	1-2	IRQ5 for mouse					
JP10	1-2	IRQ2 for mouse					
JP11	1-2	Enable mouse					
JP12	1-2	Enable floppy					
JP13	1-2	Enable onboard HD					
JP14	1-2	Enable COM1					
	2-3	Disable					
JP15	1-2	Enable COM2					
	2-3	Disable					
JP16	1-2	Enable LPT1					
JP17	1-2	Floppy primary address 3F1					
	2-3	Floppy secondary address 371					
JP18	1-2	HD primary address 1F0					
	2-3	HD secondary address 170					
JP19	1-2	COM1 primary I/O address 3F8					
	2-3	COM1 secondary I/O address 3E8					
JP20	1-2	COM2 primary I/O address 2F8					
	2-3	COM2 secondary I/O address 2E8					

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP21	1-2	LPT primary I/O address 378
	2-3	LPT secondary address 278
JP23	In	Clear CMOS
	Out	Normal

### *Powerstation 486*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Clear CMOS
	2-3	Onboard battery
	Out	External battery at J4
JP2	In	CGA, EGA, VGA display
	Out	Mono
JP3	In	Enable floppy
JP4,5	In	Enable HD
JP6	In	ATCLK=CLKIN/6
	Out	ATCLK=CLKIN/4
W2	1-2	50 MHz CPU, single frequency
	2-3	20,25,33 MHz CPU, double frequency

*Notes*

## Packard Bell

### 286X

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J7	1-2	Enable COM1
	3-4	Enable COM2
J14	In	RAM 0 wait state
	Out	RAM 1 wait state
J15	In	256Kx9 RAM
	Out	1Mbx9 RAM
J16	In	Disable 384K relocation
	Out	Enable
J17,18	<b>J17</b>	<b>J18</b>
	1-2	2-3
	2-3	1-2
J20		Keylock
J21	In	Enable floppy
J22	In	Colour display
	Out	Mono
J23	In	Enable HD

### 386SX

16-bit HD controller automatically disables IDE.

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W3	1-2	Mono display
	2-3	Colour
W4	1-2	Disable floppy
	2-3	Enable
W11	1-2	Disable onboard VGA
	2-3	Enable
W12	1-2	Disable IDE LED
	2-3	Enable
W16	In	Enable PS/2 mouse port

## 386X

Jumper	Position	Function
J7	1-2 3-4	Enable COM1 Enable COM2
J11,21	<b>J11</b> 1-2 2-3	<b>J21</b> 2-3 1-2
		<b>Parallel port</b> LPT1 IRQ7 LPT2 IRQ5
J12	In Out	Colour display Mono
J14,15	<b>J14</b> 1-2 2-3 1-2 2-3	<b>J15</b> 1-2 1-2 2-3 2-3
		<b>DRAM</b> 100ns, FPM, 4 page, 0 ws 100ns, FPM, 1 page, 0 ws 100ns, 1 ws 100ns, 1 ws
J18		Front panel connector
J19	In	Enable floppy
J20	In	Enable HD
J23		Keylock
J24	In	Enable PS/2 mouse port (v5 boards only)

## 486ES

Jumper	Position	Function
J11	2-3 1-2	Enable onboard VGA Disable
J12	In Out	Colour display Mono
J13	1-2 2-3	LPT IRQ7 LPT IRQ5
J14	In Out	Password Override Clear password
J16	In Out	Enable I/O Disable
J17	1-2 2-3	Boot from Boot block Normal
J22	In Out	VGA IRQ Enable
J23, 25 26	<b>J23</b> In Out Out	<b>J25</b> Out In
		<b>J26</b> Out In
		<b>CPU Speed</b> 20 MHz 25/40MHz
J24	In Out	Enable battery Disable
J27	In Out	Enable Mouse Disable
J28		External Battery
J29		Reserved
J30-33	<b>J30</b> Out In	<b>J31</b> 1-2 2-3
		<b>J32</b> 1-2 2-3
		<b>J33</b> 1-2 2-3
		<b>Cache Size</b> 32K 128/512K
J34,40	J34 1-2,3-4 5-6 5-6	J40 1-2,5-6 3-4
		CPU Type 486DX/487SX/Overdrive 486SX (U48)
J37	In Out	Lock keyboard Unlock
J39	1-2 2-3	Onboard Speaker Auxiliary
J41	In Out	Disable onboard RAM Enable



## 486I

See Packmate486-25

## 486R/T

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMP1	1-2	Enable floppy
	2-3	Disable
JMP2	1-2	Colour display
	2-3	Mono
JMP3	1-2	Enable IDE
	2-3	Disable
J4		Reset
J9		HD LED

## 486SX-20

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J11	In	Enable modem
J12	In	Enable mouse
J13	1-2	Disable VGA
	2-3	Enable
J14	1-2	Enable COM3
	2-3	Enable COM1
J15	1-2	Enable COM4
	2-3	Enable COM2
J16	1-2	Enable LPT2
	2-3	Enable LPT1
J18	1-2	LPT IRQ5
	2-3	LPT IRQ7
J19	In	Interlaced VGA
	Out	Non-interlaced VGA
J20	1-2	HD secondary address
	2-3	HD primary address
J22	1-2	Floppy secondary address
	2-3	Floppy primary address
J23		Auxiliary fan
J26	1-2	External speaker
	2-3	Onboard
J27	5-6	486
	3-4	486SX
	1-2	487
J28	3-4	No cache (NC)
	1-2	Cache (C)
J29		Front panel
J30		Keylock

## 720

Something to do with AST? (Similar jumper labels to Bravo MS 5100).

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J4L1A	1-2	Password enabled
	2-3	Password disabled
	2-4	Normal
	5-6	Clear CMOS
J4L1B	1-2	Allow access to setup

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	Denied
J4L1C	1-2,5-6	66 MHz host bus speed
	2-3,4-5	60 MHz
	2-3,5-6	50 MHz
J4L1D	1-2,4-5	1.5x CPU clock
	2-3,4-5	2x
	2-3,5-6	2.5x
	1-2,5-6	3x
J6A2	1-2	Standard voltage (3.3v)
	2-3	VRE (3.6v)
J6C2	1-2,4-5	2 PCI slots on riser
J4G1?	2-3,5-6	2 PCI slots on riser
J6C2	1-2,4-5	Normal
	2-3,5-6	Recovery Mode

### Force 486-25

As for 486R/T

### IS-VT286

<i>Jumper</i>	<i>Position</i>					<i>Function</i>
J1						Reset
J2	1-2					1Mb (512/512)
	2-3					512 or 640K
J7	1-2					Colour display
	2-3					Mono
J12	1-2					Low system clock
	2-3					High system clock
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>ROM size</b>	
S1-4	On	On	Off	Off	128K/chip (4)	
	Off	Off	On	On	256K/chip (2)	

### Packmate 486/25

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E2-E3		256K EPROM
E3-E4		512K EPROM
E5-E6		Enable password
E6-E7		Disable

### PB 100

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
Jfdc	1-2	Enable floppy
Jhdc	1-2	Enable IDE
Jc13	1-2	Modem COM1
	2-3	Modem COM3
Jc24	1-2	Serial port is COM2
	2-3	Serial port is COM4
Jlps	1-2	Parallel port is LPT1
	2-3	Parallel port is LPT2
Jirq	1-2	LPT IRQ7
	2-3	LPT IRQ5
Jvrq	In	VGA IRQ9
	Out	No interrupt
Jmrq	In	Mouse IRQ12
	Out	No interrupt
Jvgas	1-2	Disable VGA

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	Enable VGA
Jgams	1-2	Enable game port
	2-3	Disable
Jvd	In	Colour display
	Out	Mono

### PB 1000

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1	On	Colour display	
	Off	Mono	
S2	On	256K BIOS EPROM	
	Off	128K BIOS EPROM	
S3,4	<b>S3</b>	<b>S4</b>	<b>System speed</b>
	On	On	10 MHz CPU
	Off	On	8 MHz CPU
	Off	Off	5 MHz CPU
S5	On	Primary floppy address 3Fh	
	Off	Secondary floppy address 37h	
S6	Off	Reserved	
S7	On	Reserved	
S8	On	Reserved	

### PB 22/23

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J11	In	Enable modem
J12	In	Enable mouse
J13	1-2	Enable VGA
	2-3	Disable
J14	1-2	Enable COM1
	2-3	Enable COM3
J15	1-2	Enable COM2
	2-3	Enable COM4
J16	1-2	Enable LPT1
	2-3	Enable LPT2
J18	1-2	LPT IRQ7
	2-3	LPT IRQ5
J19	In	Interlaced VGA
	Out	Non-interlaced VGA
J20	1-2	HD primary address
	2-3	HD secondary address
J22	1-2	Floppy primary address
	2-3	Floppy secondary address
J23		Auxiliary fan
J26	1-2	External speaker
	2-3	Onboard
J27	5-6	486
	3-4	486SX
	1-2	487
J28	3-4	No cache (NC)
	1-2	Cache (C)
J29		Front panel
J30		Keylock

PB 25/33

Jumper	Position	Function
Jfdc	1-2	Enable floppy
Jhdc	1-2	Enable IDE
Jc1s	1-2	Enable COM1
	2-3	Disable
Jc2s	1-2	Enable COM2
	2-3	Disable
Jlps	1-2	Parallel port is LPT1
	2-3	Parallel port is LPT2
Jirq	1-2	LPT IRQ7
	2-3	LPT IRQ5
Jpipe	Out	Non-pipeline mode (In is reserved)
Jrom	1-2	512K ROM (Out=256K)
Jvd	2-3	Colour display
	1-2	Mono

PB 286

Jumper	Position	Function			
S1,2	<b>S1</b>	<b>S2</b>	<b>Memory size</b>		
	Off	Off	256K		
	Off	On	512K		
	On	Off	640K		
S3,4	<b>S3</b>	<b>S4</b>	<b>System clock</b>		
	Off	Off	High speed		
	Off	On	Middle speed		
	On	Off	Low speed		
S5	On	On	Low speed		
	On	On	Low speed		
S6		Reserved			
S7	On	Colour display			
S8	Off	Mono			
	On	10 MHz 80287			
SW2	Off	4.77 MHz 80287			
	On				
S1-2	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>ROM size</b>
	On	On	Off	Off	128K/chip (4)
S1-2	Off	Off	On	On	256K/chip (2)

PB 286B

Jumper	Position	Function
JP1	In	Colour display
	Out	Mono
JPF	In	Disable floppy
	Out	Enable

PB 300

Jumper	Position	Function
Jfdc	1-2	Enable floppy
Jhdc	1-2	Enable IDE
Jc13	1-2	Modem COM1
	2-3	Modem COM3
Jc24	1-2	Serial port is COM2
	2-3	Serial port is COM4
Jlps	1-2	Parallel port is LPT1
	2-3	Parallel port is LPT2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
Jirq	1-2	LPT IRQ5
	2-3	LPT IRQ7
Jvrq	In	VGA IRQ9
	Out	No interrupt
Jmrq	In	Mouse IRQ12
	Out	No interrupt
Jvgas	1-2	Enable VGA
	2-3	Disable
Jgams	1-2	Disable game port
	2-3	Enable
Jvd	In	Colour display
	Out	Mono
Jpip	In	Pipelined 386
	Out	Non-pipelined

### *PB 301A-B2*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
Jfdc	1-2	Floppy primary address
	2-3	Floppy secondary address
Jhdc	1-2	IDE primary address
	2-3	IDE secondary address
Jc13	1-2	Modem COM1
	2-3	Modem COM3
Jc24	1-2	Serial port is COM2
	2-3	Serial port is COM4
Jlps	1-2	Parallel port is LPT1
	2-3	Parallel port is LPT2
Jirq	1-2	LPT IRQ5
	2-3	LPT IRQ7
Jinlc	In	Interlaced monitor
	Out	Non-interlaced
Jmrq	In	Enable mouse port
	Out	Disable
Jvgas	1-2	Enable VGA
	2-3	Disable
Jgams	1-2	Disable game port
	2-3	Enable
Jvd	1-2	Mono display
	2-3	Colour
Jpip	In	Pipelined 386
	Out	Non-pipelined
Jspks	1-2	Enable internal speaker
	2-3	Disable
Jbts	In	Enable external battery
	out	Disable

### *PB 301B-B2*

As for PB 301A-B2

### *PB 301C-C1*

As for PB 301A-B2

*PB 320*

As for PB 300

*PB 386CDM-1*

As for PB 301A-B2

*PB 386-16/20 Supreme*

Old

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMP1	1-2	Colour display
	2-3	Mono
JMP2	1-2	Disable coprocessor
	2-3	Enable

New

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMP1	1-2	Colour display
	2-3	Mono
JMP2	1-2	80387
	3-4	No 80387
	5-6	80287
JMP3	1-2	256K EPROM
	2-3	512K EPROM
JMP4	1-2	Disable aux IOCS16
	2-3	Enable

*PB 386-25 Rev D*

Same as Samsung SD 820

<i>Jumper</i>	<i>Function</i>
E1-E2, E4-E5	100ns SIMMs
E7-8, E10-11	256K SIMMs
E8-9, E11-12	1 Mb SIMMs
E13-14	Enable LPT1
E14-15	Disable
E16-17	Leading edge printer acknowledge
E17-18	Trailing edge printer acknowledge
E19-20	Enable LPT2
E20-21	Disable
E22-23	Enable COM1
E23-24	Disable
E25-26	Enable COM2
E26-27	Disable
E28-29	Maths copro installed
E29-30	Not installed
E34-35	Enable keyboard reset
E35-36	Disable
E37-38	Unix system
E38-39	Non-Unix
E41-42	Colour display
E40-41	Mono
E53-54	<b>E55-56</b> <b>SIMM Type</b>
Out	In Static column
In	In FPM
Out	Out Standard RAS/CAS
E57-58	64K ROM

<i>Jumper</i>		<i>Function</i>
E58-59		128K ROM
E60-62	<b>E61-63</b>	<b>Total RAM</b>
Out	Out	1 Mb
Out	In	2 Mb
In	Out	4 Mb
In	In	8 Mb

### PB 386-25 Rev F

<i>Jumper</i>		<i>Function</i>
E2-3		Leading edge printer acknowledge
E3-4		Trailing edge printer acknowledge
E5-6		Enable LPT1
E6-7		Disable LPT1
E8-9		Enable LPT2
E9-10		Disable
E11-12		Enable COM1
E12-13		Disable
E14-15		Enable COM2
E15-16		Disable
E18-19		Colour display
E17-18		Mono
E23-24		64K ROM
E24-25		128K ROM
E35-36, E30-31, E33-34, E39-40		1 Mb RAM
E32-33, E35-36, E39-40, E30-31		2 Mb RAM
E33-34, E36-37, E38-39, E29-30		4 Mb RAM
E32-33, E36-37, E38-39, E29-30		8 Mb RAM
E42-43, E44-45		Static column RAM
E42-43, E45-46		FPM
E41-42, E44-45		Standard RAS/CAS
E47-48		Onboard RAM 100ns
E48-49		Onboard RAM 85ns

### PB 386-33

Same as Samsung SD 830

<i>Jumper</i>		<i>Function</i>
<b>E2-4</b>	<b>E3-5</b>	<b>RAM Type</b>
Out	Out	RAS/CAS
In	In	FPM
Out	In	Static column
<b>E6-8</b>	<b>E7-9</b>	<b>Total RAM</b>
Out	Out	1 Mb
Out	In	2 Mb
In	Out	4 Mb
In	In	8 Mb
E16-18, E17-19		256K SIMMs
E18-20, E19-20		1 Mb SIMMs
E25-26		Enable LPT1
E26-27		Disable LPT1
E28-29		Enable LPT2
E29-30		Disable
E31-32		Enable COM1
E32-33		Disable
E34-35		Enable COM2
E35-36		Disable

<i>Jumper</i>	<i>Function</i>
E37-38	Mono display
E38-39	Colour
E40-41	Enable keyboard reset
E41-42	Disable
E43-44	Maths copro installed
E44-45	Not installed
E46-47	Leading edge printer acknowledge
E47-48	Trailing edge printer acknowledge
E49-50	64K EPROM
E50-51	128K EPROM

### *PB 400DX-33*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8	In	Enable onboard battery
	Out	External battery
J10	1-2	Enable onboard VGA
	2-3	Disable
J12	1-2	Disable game port
	2-3	Enable
J14	In	Normal VGA
	Out	Enable VESA
J16	In	Colour display
	Out	Mono
J17	In	Enable PS/2 mouse port
J18	1-2	Enable COM1
	2-3	Enable COM3
J20	1-2	Enable COM2
	2-3	Enable COM4
J22	1-2	Enable LPT1
	2-3	Enable LPT2
J23	1-2	LPT IRQ7
	2-3	LPT IRQ5
J24	1-2	IDE primary address
	2-3	IDE secondary address
J26	1-2	Floppy primary address
	2-3	Floppy secondary address
J29	1-2	Onboard buzzer
	2-3	External speaker
J30	3-4	486SX
	1-2,5-6,7-8	486DX/DX2
	1-2,5-6,9-10	487SX, P23T, P24T
J31	In	Upgrade CPU in U74
	Out	No upgrade CPU
J34	In	486DX2
	Out	No DX2
J35	1-2,3-4	16 MHz CPU
	3-4	20 MHz CPU
	1-2	25 MHz CPU
	None	33 MHz CPU
J36	None	64K cache
	1-2,5-6,7-8	128K cache
	1-2,3-4,5-6,9-19	256K cache

### *PB 400DX2-50*

As for PB 400DX-33



**PB 400SX-20**

As for PB 400DX-33

**PB 400SX-25**

As for PB 400DX-33

**PB 410**

<i>Jumper</i>	<i>Position</i>			<i>Function</i>	
J11	1-2			Disable VGA	
J12	Short			Colour	
	Open			Mono	
J13	1-2			LPT IRQ7	
	2-3			LPT IRQ5	
J15	Short			Enable game port	
	Open			Disable	
J16	Short			Enable I/O	
J17	1-2			Normal	
	2-3			Boot Block	
J22	Short			Enable VGA IRQ9	
J23-26	<b>J23</b>	<b>J25</b>	<b>J26</b>	<b>CPU speed</b>	
	Short	Open	Open	20 MHz	
	Open	Short	Short	25 MHz	
	Open	Short	Open	33 MHz	
	Open	Open	Short	40 MHz	
J24	Short			Enable onboard battery	
J27	Short			Enable mouse port	
J28				External battery connector	
J29	Short			CPU > 33 MHz	
	Open			CPU <= 33 MHz	
J30-33	<b>J30</b>	<b>J31</b>	<b>J32</b>	<b>J33</b>	<b>Cache</b>
	Open	1-2	1-2	1-2	32K
	Short	2-3	2-3	1-2	128K
	Short	2-3	2-3	2-3	512K
J34,40	<b>J34</b>	<b>J40</b>			<b>CPU type</b>
	1-2,5-6	1-2,5-6			486DX, ODP
	1-2,5-6	3-4			487SX, POD
	5-6	3-4			486SX
	3-4	1-2,5-6			No upgrade CPU

**PB 420(T)**

As for PB 410

**PB 430**

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
J11	1-2			Disable VGA
J12	Short			Colour
	Open			Mono
J13	1-2			LPT IRQ7
	2-3			LPT IRQ5
J16	Short			Enable I/O
J17	1-2			Normal
	2-3			Boot Block
J22	Short			Enable VGA IRQ9

<i>Jumper</i>	<i>Position</i>			<i>Function</i>	
J23-26	<b>J23</b>	<b>J25</b>	<b>J26</b>	<b>CPU speed</b>	
	Short	Open	Open	20 MHz	
	Open	Short	Short	25 MHz	
	Open	Short	Open	33 MHz	
	Open	Open	Short	40 MHz	
J24	Short			Enable onboard battery	
J27	Short			Enable mouse port	
J28	External battery connector				
J30-33	<b>J30</b>	<b>J31</b>	<b>J32</b>	<b>J33</b>	<b>Cache</b>
	Open	1-2	1-2	1-2	32K
	Short	2-3	2-3	1-2	128K
	Short	2-3	2-3	2-3	512K
J34,40	<b>J34</b>	<b>J40</b>			<b>CPU type</b>
	1-2,5-6	1-2,5-6			486DX, ODPB
	1-2,5-6	3-4			487SX, POD
	5-6	3-4			486SX
	3-4	1-2,5-6			No upgrade CPU

**PB 440(T)**

As for PB 430

**PB 450**

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
J8 Jcol	In		Colour display
	Out		Mono
J9 Jvirq	In		Enable video IRQ 9
	Out		Disable
J10 Jpwdclr	In		Clear password
J11 Jgams	In		Enable game port
J15 Jdack	<b>J15</b>	<b>J16</b>	<b>ECP DMA</b>
J16 Jdrq	1-2	1-2	Channel 1
	2-3	2-3	Channel 3
J17 Jbbe	1-2		Boot block
	2-3		Normal
J18 Jpare	1-2		Enable parity
	2-3		Disable
J19 Jvgae	1-2		Disable VGA
J20 Jio	1-2		Disable I/O
J25 Jsel	1-2		25 MHz CPU
	2-3		33 MHz CPU
J26 Jcsize	Any		No cache
	Open		128K
	1-2,3-4		512K
J31	1-2,3-4		486DX, P24T
	5-6		486SX
J36 Jspk	Open		External speaker
	3-4		Internal speaker
J37 Jobmd	Open		Enable memory
J39 Jacf	Open		All other
	Close		Alternate CPU
J40 Jacd	1-2		No SMM
	1-2,3-4		With SMM
	2-3		All other
J41 Jace	1-2		No SMM
	1-2,3-4		With SMM
	2-3		All other

**PB 470**

Same as Zenith Z-Station 510

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J8 Jpwdclr	In	Clear password	
J9 Jcol	In	Colour display	
	Out	Mono	
J12 Jirq9	In	Enable video IRQ 9	
J13 Jio	1-2	Disable I/O	
J14 Jbte	1-2	Boot block	
	2-3	Normal	
J15 Jvgae	1-2	Disable VGA	
J16 Jpare	1-2	Enable parity	
	2-3	Disable	
J23 Jca2/3	Any	No cache	
J25 Jcal7/2	1-2	128K	
	2-3	256K	
	1-2	512K	
J24Jcsize	Any	No cache	
	None	128K	
	Open	256K	
	1-2,3-4	512K	
J27dack	<b>J27</b>	<b>J28</b>	<b>ECP DMA</b>
J28drq	1-2	1-2	Channel 1
	2-3	2-3	Channel 3
J30 Jeride	1-2	Enable (?)	
	2-3	Disable	
J31 Jbte	Closed	Enable onboard battery	
J32 Jsel	1-2	25 MHz CPU	
	2-3	33 MHz CPU	
J33 Jsx	5-6	SX CPU	
	1-2,3-4	Others	
J34 Jret	1-2	Reserved	
	2-3	All CPUs	
J35 Jdev	Closed	Enable	
J36 J(3.3v)	1-2,3-4	3.3v CPU	
	3-5,4-6	5v CPU	
J37 Jmul	None	x3 CPU	
	3-4	x2 CPU	
	1-2	Other	
J40 Jspk	Open	External speaker	
	3-4	Internal speaker	

**PB 500**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1	On	Serial port is COM2	
	Off	Serial port is COM1	
S2	On	Parallel port is LPT2	
	Off	Parallel port is LPT1	
S3,4	<b>S3</b>	<b>S4</b>	<b>Video Type</b>
	On	On	Auto select
	Off	Off	80x25 mono
	Off	On	80x25 colour
J6	On	Off	40x25 colour
	Out		2764/27128/27256
	1-2		2764/27128/27256/27512

**PB 520**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J7A1	4-5	66 MHz (not used)
	5-6	60 MHz
J1G2		Turbo switch
J12H1	1-2	Recovery
	3-4	Normal
	5-6	Program Flash
	7-8	Write protect
J13H1	1-2	Normal
	3-4	Clear CMOS
	5-6	Enable password
	7-8	Disable
J13H3	1-2	Mono
	3-4	Colour
	5-6	Enable setup
	7-8	Disable

**PB 520R**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J13		Not used
J14	1-2	66 MHz (not used)
	2-3	60 MHz
J15	1-2	Mono display
	2-3	Colour
J16	1-2	Normal
	2-3	Clear password
J17	1-2	Flash boot block recovery mode
	2-3	Normal
J18	1-2	Flash write enable
	2-3	Flash write protect
J19	1-2	Clear CMOS
	2-3	Normal
J20	1-2	Enable CMOS setup

**PB 55**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP2		Reserved
JP3	In	Colour display
	Out	Mono
JP4		Reserved
JP5	In	Enable PS/2 mouse
JP7	In	60Hz V/37.8KHz H
	Out	56Hz V/35.2KHz H
JP8	In	Multi-sync monitor
	Out	PS/2 or other monitor
JP9	In	PS/2 VGA video BIOS
	Out	AT VGA video BIOS
JP10		Reserved
JP11		Reserved
JP12	In	Enable VGA
JP14	In	Clear CMOS
	Out	Normal
JP15	1-2	Internal speaker
	2-3	External speaker
JP30	In	Centronics printer port
	Out	PS/2 (bidirectional) printer port

**PB 540**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
J1J1 (75/90)		Reserved
J1J2 (75/90)		Reserved
J1H1 (RCVR)	1-2	Flash boot block recovery mode
	2-3	Normal
J1H2 (PRG)	1-2	Flash write enabled
	2-3	Flash write protected
J1H3 (SETUP)	1-2	Enable CMOS setup
	2-3	Disable
J1H4 (PED)	1-2	Normal
	2-3	Clear password
J1H5 (MO/CLR)	1-2	Mono
	2-3	Colour
J1H6 (CMOS)	1-2	Normal
	2-3	Clear CMOS
J9N1	1-2	3.45v CPU
	2-3	3.3v CPU

**PB 550**

As for PB 540

**PB 560**

As for PB 540

**PB 570**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	Reserved
2	On	60 or 66 MHz
	Off	50 MHz
3	On	Disable password
	Off	Enable
4	On	Clear CMOS
	Off	Normal
5	On	Disable setup
	Off	Enable
6	On	CPU 2x
	Off	CPU 1.5x
7	On	60 MHz
	Off	50 or 66 MHz
8	On	66 MHz
	Off	50 or 60 MHz
J5A2	1-2	Normal
	2-3	BIOS recovery
J13J1	1-2	CPU voltage VR
	2-3	CPU voltage VRE

**PB 580**

As for PB 570

**PB 590**

As for PB 570

**PB 600**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8	In	Clear password
	Out	Normal
J9	In	Quick boot
	Out	Normal
J14	1-2	Boot block
	2-3	Normal
J15	1-2	Disable onboard I/O
	2-3	Enable
J16	1-2	Parity check disable (if no onboard memory)
	2-3	Enable
J17	In	Standard power supply
	Out	With Standby
J18	1-2	ECP DRQ Channel 1
	2-3	ECP DRQ Channel 3
J19	1-2	ECP DACK Channel 1
	2-3	ECP DACK Channel 3
J19	1-2	CPU VR voltage (3.3v)
	2-3	CPU VRE voltage (3.45v)
J29	In	Onboard lithium battery
	Out	External
J30	In	60/66 MHz host bus frequency
	Out	50 MHz host bus frequency
J31	In	66 MHz host bus frequency
	Out	50/60 MHz host bus frequency
J32	In	CPU multiplier 2x
	Out	CPU multiplier 1.5x
J37	In	Onboard speaker
	Out	External speaker

**PB 630**

As for PB 650

**PB 640**

Same as Z-Station Campus

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J5J1	1-2,4-5	50 MHz Host bus speed
	1-2,5-6	50 MHz Host bus speed
	2-3,4-5	66 MHz host bus speed
J5J2	1-2,4-5	1.5x CPU
	2-3,4-5	2x CPU
	2-3,5-6	2.5x CPU
J5K2	1-2	Normal
	2-3	Clear CMOS
	4-5	Password enabled
	5-6	Clear password
J9C1	1-2	Normal
	2-3	Boot block recovery
J4K1	1-2	1/3 PCI CLK
	2-3	1/4 PCI CLK
	4-5	Enable access to CMOS
	5-6	Deny access to CMOS
J6A2	1-2	Standard CPU voltage (3.3v)
	2-3	VRE

**PB 650**

As for PB 570

**PB 660**

As for PB 640

**PB 680**

Same as ZDS Cheetah

**PB 686**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
JP1	1-2	128K piggy-back board always on	
	2-3	System sees only 512K RAM	
JP2	1-2	Mono display	
	2-3	Colour display	
JP5	In	640K RAM	
	Out	1 Mb RAM (not on 1 Mb motherboard)	
JP24,33	<b>JP24</b>	<b>JP33</b>	<b>Serial port</b>
	1-3,2-4	1-3,2-4	DB25=COM1, DB9=COM2
	1-3,2-4	1-3,2-4	DB25=COM2, DB9=COM1
	2-4	1-3	DB25=COM1, DB9 disabled
	1-2	1-2	DB25=COM2, DB9 disabled
	3-4	3-4	DB9=COM1, DB25 disabled
	1-3	2-4	DB9=COM2, DB25 disabled

**PB 800/900 Rev C/D**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
COLOR/MONO	1-2	Colour display
	2-3	Mono
J19	1-2	80287-8
	3-4	80287-10 (with 30-32 MHz crystal at U17)

**PB 88**

Processor board

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1	Off	Reserved (test)	
S2	On	Maths copro not installed	
	Off	Installed	
S3	Off	Reserved	
S4	Off	Reserved	
S5,6	<b>S5</b>	<b>S6</b>	<b>Display type</b>
	Off	On	Low res graphics
	On	Off	High res graphics
	Off	Off	Mono
S7,8	<b>S7</b>	<b>S8</b>	<b>Diskette drives</b>
	On	On	1 floppy
	On	Off	2 floppies

**PB 8810**

As for PB 500.

*PB VX 588*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S1	Off	Reserved (On=test)	
S2	On	Maths copro not installed	
	Off	Installed	
S3,4	<b>S3</b>	<b>S4</b>	Total RAM
	On	On	256K
	Off	On	512K
	On	Off	576K
S5,6	Off	Off	640K
	<b>S5</b>	<b>S6</b>	Display type
	Off	Off	Mono
	Off	On	40x25 colour
S7	On	Off	80x25 colour
	On	On	EGA
S8	On		1 floppy
	Off		2 floppies
S9	On		8 MHz
	Off		5.5 MHz
S10	On		Enable video
S11	On		Enable serial port
S12	On		Enable parallel port
S13	On		Enable floppy

*PB VX 88*

As for PBVX 588 except:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
S3,4	<b>S3</b>	<b>S4</b>	<b>Total RAM</b>
	On	On	256K
	Off	On	512K
	On	Off	Reserved
S5,6	Off	Off	640K
	<b>S5</b>	<b>S6</b>	<b>Display type</b>
	Off	Off	Mono
	Off	On	40x25 colour
S8	On	Off	80x25 colour
	On	On	Reserved
S9	On		Fast mode
	Off		Slow mode

*Spectria*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8	Close	Colour
	Open	Mono
J9	Close	Enable VGA IRQ9
J10	Close	Clear password
J15,16	1-2	DMA Channel 1
	2-3	DMA Channel 2
J17	1-2	Protected Boot Block
	2-3	Normal
J18	1-2	Enable parity
	2-3	Disable
J19	1-2	Disable Video
	2-3	Enable
J20	1-2	Disable I/O
	2-3	Enable
J25	1-2	25 MHz CPU



<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3	33 MHz CPU
J26	Open	128K
	Closed	512K
J28	1-2	Reserved
	2-3	All CPUs
J29 Not Rev D	Open	3x CPU
	2-3	2x CPU
	1-2	Other multiplier
J30	3-4	External battery
J31	5-6	SX
	1-2,3-4	All others
J32	3-5,4-6	5v CPU (3.3v not supported)
J39		Only on Rev G board – do not change (Std/Alt CPU)
J40		Only on Rev G board – do not change (CPU SMI)
J41		Only on Rev G board – do not change (SMIACT)

## Victory

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W3	1-2	Mono display
	2-3	Colour
W4	1-2	Disable floppy
	2-3	Enable
W9	1-2	80C287-12
	2-3	80287-6
W11	1-2	Disable video
	2-3	Enable
W12	1-2	Disable HD LED
	2-3	Enable
W16	In	Enable PS/2 mouse port
	Out	Disable

## Palit

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	PCI54IT		

## Panrix

### Slot A

Made by anonymous famous manufacturer

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Chipset	AMD 750	
Bus	5 PCI/1 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy	
Video		AGP

## Palmax

## Pantex

Rebadges Biostars.

## PC Chips

Hsing Tech Enterprises. [www.pchips.com](http://www.pchips.com). [www.protac.com/files/index.html](http://www.protac.com/files/index.html) Europe.

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	M 529	H-01	80486VIP
AC-00	M 577		

## i430VX

Jumper	Position	Function		
JP1	In	Clear CMOS		
	Out	Normal		
JP2	1-2	PCI Clock/4		
	2-3	PCI Clock/3		
JP3	1-2	12v Flash ROM		
	2-3	5v Flash ROM		
JP4	1-2	2 Mb Flash ROM		
	2-3	1 Mb Flash ROM		
JP5A,B	3.3/5v	Voltage Selector		
JP6A-C	<b>A</b>	<b>B</b>	<b>C</b>	<b>CPU Speed</b>
	2-3	2-3	1-2	50 MHz
	1-2	2-3	2-3	55 MHz
	2-3	1-2	1-2	60 MHz
	1-2	2-3	1-2	66 MHz
	1-2	1-2	1-2	75 MHz
JP7A,B	<b>A</b>	<b>B</b>	<b>CPU Internal Clock</b>	
	In	Out	2x (Intel/Cyrix)	
	Out	Out	1.5x (Intel/AMD)	
	In	In	2.5x (Intel)	
	Out	In	3x (Intel)	
JP8	1-2	256K cache		
	2-3	512K cache		
JP9	A	3.5v CPU		
	B	2.9v		
	C	2.8v		
	D	2.7v		
	E	3.3v		
	None	2.5v		
JP10	1-2	RTC Chip select - Default		

## 80486VIP

Jumper	Position	Function
JP2	1-2	12v Flash ROM
	2-3	5v Flash ROM
JP3A-C	JP3C	25 MHz CPU
	JP3A,B,C	33 MHz
	JP3B,C	40 MHz
	JP3A	50 MHz

Jumper	Position	Function
J4	3-4	Discharge CMOS
JP7-12	JP7, 8A 2-3, 9A 2-3, 10A3-4, 10C 1-2 3-4, JP12A 1-2, JP12B 1-2 JP6, JP8A 1-2, JP9A 1-2, JP9B 1-2 3-4, JP9C 3-4, JP10A 3-4, JP10B 1-2 3-4, JP10C 1-2 3-4, JP14 2-3 4-5, JP12A 1-2, JP12B 1-2 JP8B 1-2, JP9A 1-2, JP9B 1-2, JP9C 2-3, JP10A 3-4, JP10B 2-3, JP10C 1-2 3- 4, JP11 2-3, JP14 1-2 3-4, JP12A 2-3, JP12B 1-2 JP8A 1-2, JP9A 1-2, JP9B 1-2 3-4, JP9C 3-4, JP10A 3-4, JP10B 2-3, JP10C 1-2 3-4, JP14 2-3 4-5, JP12A 1-2, JP12B 1-2 JP7, JP8A 2-3, JP9A 2-3, JP10A 3-4, JP10C 1-2 3-4, JP12A 1-2, JP12B 1-2 JP8A 2-3, JP9A 1-2, JP9B 1-2, JP10A 3-4, JP10B 1-2, JP10C 1-2 3-4, JP14 2-3 4-5, JP12A 1-2, JP12B 1-2 JP 13, JP8A 1-2, JP9A 1-2, JP9B 1-2 3-4, JP 9C 3-4, JP10A 3-4, JP10B 1-2 3- 4, JP10C 1-2 3-4, JP14 2-3 4-5, JP12A 2-3, JP12B 1-2	486DX/DX2 AMD X5-133, Cyrix 5x86, AMD enh 486 DX2/DX4 Cyrix/IBM/Ti/SGS DX/DX2/DX4 P24D AMD DX2/DX\$ DX4-SL Cyrix/IBM/SGS DX4-100 (Intel pinout)
JP5 A-D	<b>5A-D</b>	<b>JP4</b>
JP4	1-2	In
	1-2	Out
	2-3	In
JP6	On	2x CPU Intel, 5x Cyrix, 4xAMD
	Off	3x CPU
JP8A	1-2	2x AMD DX4
	2-3	3x AMD DX4

### M 506

Jumper	Position	Function	
JP1,2	1-2	LPT DMA1	
	2-3	LPT DMA3	
JP3	1-2	AT bus CPU/6	
	2-3	AT bus CPU/8	
JP4	In	12v Flash ROM	
	Out	5v Flash ROM	
JP5	<b>A</b>	<b>B</b>	<b>CPU Speed</b>
	In	In	50 MHz
	Out	In	60 MHz
	In	Out	66 MHz
JP6	1-2	3.5v VRE	
	2-3	3.3v STD/VR	
JP9	1-2	256K cache	
	2-3	512K cache	
JP10	1-2	5v SRAM	
	2-3	3.3v SRAM	
JP11	<b>A</b>	<b>B</b>	<b>Clock Multiplier</b>
	In	Out	2x
	Out	Out	1.5x
	In	In	2.5x
	Out	In	3x

### M 529

Same as Elpina/Ampttron PM 7400 v1.0. Comes from Hsin Tech

### M 559

Jumper	Position	Function
JP3	Out	Enable Sound pro
	In	Disable
JP4	In	Special Microphone
	Out	Normal

Jumper	Position	Function				
J5	1-2	Normal				
	2-3	Clear CMOS				
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>CPU Core Voltage</b>
	In	Out	Out	Out	Out	3.5v
	Out	In	Out	Out	Out	3.3v
	Out	Out	In	Out	Out	3.2v
	Out	Out	Out	In	Out	2.9v
	Out	Out	Out	Out	In	2.8v
	Out	Out	Out	Out	Out	2.5v
JP8	1-2	12v Flash ROM				
	2-3	5v Flash ROM				

M 570 v3.0

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Chipset		100 MHz bus speed
Bus	3 PCI/2 ISA	
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP

Jumper	Position	Function			
JP2	1-2	Normal			
	2-3	Clear CMOS			
JP3	1-2	5v DIMMs			
	2-3	3.3v DIMMs			
JP5	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>CPU Multiplier</b>
	1-2	1-2		1-2	1.5/3.5x
	2-3	2-3		1-2	2.5x
	2-3	1-2	2-3	1-2	4x
	1-2	2-3	2-3	1-2	5x
	2-3	1-2		1-2	2x
	1-2	2-3		1-2	3x
	2-3	2-3	2-3	1-2	4.5x
1-2	1-2	2-3	1-2	5.5x	
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>CPU Frequency</b>	
	2-3	2-3	2-3	60 MHz	
	2-3	1-2	2-3	68 MHz	
	1-2	2-3	1-2	83 MHz	
	1-2	2-3	2-3	66 MHz	
2-3	2-3	1-2	75 MHz		
JP7	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>CPU Core Voltage</b>
	Out	In	Out	In	2v
	Out	In	In	In	2.4v
	Out	In	Out	Out	2.8v
	Out	In	In	Out	3.2v
	In	In	Out	In	2.1v
	In	In	In	In	2.5v
	In	In	Out	Out	2.9v
	In	In	In	Out	3.3v
	Out	Out	Out	In	2.2v
	Out	Out	In	In	2.6v
	Out	Out	Out	Out	3v
	Out	Out	In	Out	3.4v
	In	Out	Out	In	2.3v
In	Out	In	In	2.7v	
In	Out	Out	Out	3.1v	
In	Out	In	Out	3.5v	

**M 571 v1.3**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Chipset		100 MHz bus speed
Bus	4 PCI/4 ISA	
Memory (Mb)		2 DIMM sockets, 4 72-pin
I/O	2S, 1P, USP, PS/2	UDMA 3

Jumper	Position					Function
JP2	1-2					Normal
	2-3					Clear CMOS
JP3	1-2					Disable Internal VGA
	2-3					Enable
JP4	5v					5v DIMMs
	3.3v					3.3v DIMMs
JP5	<b>A</b>	<b>B</b>	<b>C</b>			<b>CPU Frequency</b>
	2-3	2-3	2-3			50 MHz
	1-2	2-3	2-3			55 MHz
	2-3	2-3	1-2			60 MHz
	2-3	1-2	2-3			66 MHz
	1-2	2-3	1-2			75 MHz
JP5D	1-2					PCI CPUCLK/2
	2-3					33 MHz
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>CPU Core Voltage</b>
	Out	Out	Out	Out	Out	2.5v
	Out	Out	Out	Out	In	2.8v
	Out	Out	Out	In	Out	2.9v
	Out	Out	In	Out	Out	3.2v
	Out	In	Out	Out	Out	3.3v
	In	Out	Out	Out	Out	3.5v
JP7	<b>A</b>	<b>B</b>				<b>CPU Internal Clock</b>
	1-2	1-2				1.5x/3.5x
	2-3	1-2				2x
	2-3	2-3				2.5x
JP8A,B	2-3					P54C (Single Voltage)
	1-2					P55C (Dual Voltage)

**M 575 v1.1**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Chipset		100 MHz bus speed
Bus	4 PCI/3 ISA	
Memory (Mb)		3 DIMM sockets, 4 72-pin
I/O	2S, 1P, USP, PS/2	UDMA 3

Jumper	Position		Function
JP1	1-2		Normal
	2-3		Clear CMOS
JP3	1-2		P55C (Dual Voltage)
	2-3		P54C (Single Voltage)
JP5	<b>A</b>	<b>B</b>	<b>CPU Internal Clock</b>
	1-2	1-2	1.5x/3.5x

Jumper	Position						Function
	2-3	1-2					2x
	2-3	2-3					2.5x
	1-2	2-3					3x
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>CPU Core Voltage</b>
	Out	Out	Out	Out	Out	In	2.5v
	Out	Out	In	Out	Out	In	3.2v
	Out	Out	Out	Out	Out	Out	2.2v
	Out	Out	Out	Out	In	In	2.8v
	Out	In	Out	Out	Out	In	3.3v
	Out	Out	Out	In	Out	In	2.9v
	In	Out	Out	Out	Out	In	3.5v
JP7	<b>A</b>	<b>B</b>					<b>CPU External Speed</b>
	In	In					60 MHz
	Out	In					66 MHz
	In	Out					75 MHz
	Out	Out					83 MHz
JP9	Out						Enable Sound Pro
	In						Disable

**MB-5770**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Speeds (MHz)	90-350 MHz	
Chipset	TX AGP Pro PC100	100 MHz bus speed
Bus	3 PCI/2 ISA	
Memory (Mb)		3 DIMM sockets, 2 72-pin
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Audio	3D Sound Pro	

**MB-5900**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Speeds (MHz)	90-350 MHz	
Chipset	PC100 TX Pro	100 MHz bus speed
Bus	3 PCI/2 ISA	
Memory (Mb)		2 DIMM sockets, 2 72-pin
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	4 Mb AGP 3D	AGP
Audio	3D Sound Pro	

**MB-7170**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II/Celeron	
Speeds (MHz)	233-333 MHz	Celeron up to 300 MHz
Chipset	440EX/LX	
Bus	3 PCI/2 ISA	
Memory (Mb)		2 DIMM sockets, 2 72-pin
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	4 Mb AGP 3D	AGP
Audio	3D Sound Pro	

*MB-7290*

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-450 MHz	Celeron 266-300 MHz
Chipset	PC100 based BXcel	100 MHz bus speed
BIOS		
Bus	3 PCI/2 ISA	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Audio	3D Sound	

*MB-7300*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-400 MHz	Celeron 266-333 MHz
Chipset	PC100 BXpert	100 MHz bus speed
BIOS		
Bus	3 PCI/2 ISA	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	8 Mb AGP 3D	AGP
Audio	3D Sound Aureal	

*MB-7470*

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-450 MHz	Celeron 266-300 MHz
Chipset	PC100 BX Pro	100 MHz bus speed
BIOS		
Bus	3 PCI/2 ISA	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	3D AGP	64 bit 4 Mb Frame Buffer
Audio	3D Sound	

*MB-7610*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-500 MHz	Celeron 266-333 MHz
Chipset	440 BX	100 MHz bus speed
BIOS		
Bus	3 PCI/1 ISA	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Audio	3D Sound Aureal	

*Triton Board (unidentified)*

<i>Jumper</i>	<i>Position</i>						<i>Function</i>
JP1	1-2						Normal
	2-3						Clear CMOS
JP3	1-2						P55C (Dual Voltage)
	2-3						P54C (Single Voltage)
JP5	<b>A</b>	<b>B</b>					<b>CPU Internal Clock</b>
	1-2	1-2					1.5x/3.5x
	2-3	1-2					2x
	2-3	2-3					2.5x
	1-2	2-3					3x
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>CPU Core Voltage</b>
	Out	Out	Out	Out	Out	In	2.5v
	Out	Out	In	Out	Out	In	3.2v
	Out	Out	Out	Out	Out	Out	2.2v
	Out	Out	Out	Out	In	In	2.8v
	Out	In	Out	Out	Out	In	3.3v
	Out	Out	Out	In	Out	In	2.9v
	In	Out	Out	Out	Out	In	3.5v
JP7	<b>A</b>	<b>B</b>					<b>CPU External Speed</b>
	In	In					60 MHz
	Out	In					66 MHz
	In	Out					75 MHz
JP9	Out						Enable Sound Pro
	In						Disable

**PC Master**

See PC Ware

**PC Max**

See PC Ware

**PC Partner**

See Vtech Computer Systems Ltd

[www.pcpartner.com](http://www.pcpartner.com)

**PC Quest**

See PC Ware

**PC Ware**

[www.pcware.com](http://www.pcware.com)

**Pine Technology**

[www.pineusa.com](http://www.pineusa.com)

**Award BIOS ID**

The last two numbers of the BIOS part number.



Code	Motherboard	Code	Motherboard
9C	TL-LX01	AC-00	PT 730A/B

### PT 319A

386sx

Jumper	Position	Function
JP1	Closed*	Colour display
	Open	Mono
JP3	1-2*	387SX clock synchronous (CLK2)
	2-3	387SX clock asynchronous (OSC2)
If CPU and copro are same speed, connect JP3 1-2. otherwise, 2-3 with another oscillator.		
JP5	Closed	Turbo speed
	Open	Low speed

### PT-429G

NetWare compatible 486

Jumper	Position	Function					
JP1	Short	Onboard battery connect					
JP2	1-2*	External power good					
	2-3	Internal power good					
JP3	1-2*	Normal VGA					
	2-3	Power 9000 VGA					
JP4	1-2	Enable Cx487s * MCA3 only for Master Mode					
	2-3*	Normal 3 VESA Master					
JP5	1-2*	No CPURDY# Delay 1-T state (50 MHz VESA)					
	2-3	Delay 1-T state (50 MHz VESA)					
JP6	1-2*	No PADS# Delay 1-T state (50 MHz VESA)					
	2-3	Delay 1-T state (50 MHz VESA)					
JP7	Open*	Enable CPU test logic					
	Close	Disable					
JP9-11,30	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP30</b>	<b>Clock speed</b> (AvaSem AV9107-05 at U34)		
		On	Off	2-3	25 MHz		
		Off	On	2-3	33 MHz*		
		Off	Off	2-3	40 MHz		
		On	Off	1-2	50 MHz		
JP9-11,30	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP30</b>	<b>Clock speed</b> (Chrontel CH9007E at U35)		
		On	On	On	25 MHz		
		On	On	Off	33 MHz*		
		On	Off	On	40 MHz		
			Off	Off	50 MHz		
	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP30</b>	<b>Clock speed</b> (MX 8315 at U28)		
	Off	Off	On		25 MHz		
	On	On	On		33 MHz*		
Off	On	On		40 MHz			
On	Off	Off		50 MHz			
JP12	Open				CPU speed <=33 MHz (for VL bus)		
	Close				CPU speed >33 MHz		
JP13-17	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>Cache size</b>	
		Open	2-3	Open	Open	Open	32K
		Open	1-2	Open	Short	Open	64K
		2-3	2-3	Open	Short	Short	128K
		1-2	1-2	Short	Short	Short	256K*
JP18,19	<b>JP18</b>	<b>JP19</b>				<b>CPU type</b>	
		2-3	Open				486SX

Jumper	Position	Function
	1-2,3-4    1-2	486DX/DX2*
	1-2,3-4    2-3	P24N/P24T
JP20	Open*	0 VESA wait state
	Short	1 VESA wait state
JP21	1-2	Bank 0 30-pin SIMM
	2-3	Bank 2 30-pin SIMM
JP22,23	<b>JP22</b> <b>JP23</b>	<b>72-pin SIMM5</b>
	1-2    2-3	Bank 0
	Off    Off	Bank 1
	<b>JP22</b> <b>JP23</b>	<b>72-pin SIMM5</b>
	1-2    2-3	Bank 0 & 1
	1-2    2-3	Bank 1 & 2
JP24,25	<b>JP24</b> <b>JP25</b>	<b>72-pin SIMM6</b>
	1-2    2-3	Bank 1
	Off    Off	Bank 2
	<b>JP24</b> <b>JP25</b>	<b>72-pin SIMM6</b>
	1-2    2-3	Bank 1 & 2
	1-2    2-3	Bank 2 & 3
JP32	1	Green AUX #2 connector output #1
	2	Green AUX #2 connector output #2
GJ1	Open	Normal
	Close	Enable Green Function
GJ3	1-2	AMI MegaKey keyboard BIOS
	2-3	Phoenix Multikey keyboard BIOS

## Pionex Computers

Rebadges Biostars.

## Powertech

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
HC	MB 532	LC	MB 533
KC	MB 533		

## Premio

Formerly CompuTrend. [www.premiopc.com](http://www.premiopc.com)

## President Technology

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
A-00/01	P54SA(B)		

## Pride

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	Freeway II	0C	Freeway II
AC	Freeway VX		

### Freeway II

Freetech Board

### Freeway II+

Really a Freetech P586F62T - same as Genoa Turbo Express 586HX v T1B

### Freeway VX

Really a Freetech something-or-other.

### Prime

Vision Top?

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	VT 586VX	FC	VT 586VX
EC-00	VT 586VXB v2.4G	GC-00	VT 586 VXB

### Procomp

See also Compower

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	AL B586v1.1		

### Pronix

(714) 990 8858

See Epox

### Proside

Mpact. [www.mpactworld.com](http://www.mpactworld.com)

### Proteam

### Protech

*Notes*



## QDI

Quality Design Innovation. [www.qdigrp.com](http://www.qdigrp.com). [www.qdi.se](http://www.qdi.se)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1-00	VIP 596P93 v2.0	CC	P51437/250A v2.1 BIOS
2-00	P5S5480P3	CC	P51430HX-T2 Frontier
9C	P61440FX	DC	P51430TX Titanium 1B
9C-00	P51430TX-250/Titanium 1	GC	P51430TX
AC	P51437/250A		

### *Advance 3*

Item	Description	Notes
Form Factor	ATX	
CPU		Socket 7
Speeds (MHz)	66-100	
Chipset	MPV3	
BIOS	Award	
Bus	1 PCI/1 ISA	
Memory (Mb)	256 Mb	
I/O	2S, 1P, USP, PS/2	
Video		AGP
Performance		

### *Advance 5/133(E)*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	66-133	
Chipset	Apollo Pro	
BIOS	Award 4.51 PG	

Item	Description	Notes
Bus	4 PCI/3 ISA	
Memory (Mb)	512 SDRAM 768 EDO	3 DIMM sockets
I/O	The usual	Supports LS-120
Video	AGP	2x
Comments		PCI 2.2 compliant

Jumper	Position	Function		
JAV	Closed Open	BIOS cannot be overwritten BIOS can be flashed		
JCC	1-2 2-3	Clear CMOS Normal		
JKB	1-2 2-3	Enable keyboard password power-on(set also in BIOS) Disable		
JFSB1,2	<b>JFSB1</b>	<b>JFSB2</b>	<b>JCLK</b>	<b>CPU FSB</b> (Overclocking)
JCLK	Close Open -	Close Close Open	1-2 1-2 2-3	66/100 Auto 100 133

### Brilliant 1(S)

Jumperless

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	66-100	4.5 x CPU clock
Chipset	440 BX	
BIOS	Award 4.51 PG	
Bus	4 PCI/3 ISA	100 MHz
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Performance		Average

### Geniux 4

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Xeon	SMP Slot 2
Chipset	Intel 440GX	
Bus	6 PCI/1 ISA	UDMA/33
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR, Intel 82558 LAN	Adaptec AIC 7890AB
Video		AGP 2x

### Legend IV

Item	Description	Notes
Form Factor	ATX	
CPU	2 Pentium II	Slot 1
Bus	4 PCI/3 ISA	1 slot can be extended for RAID
Memory (Mb)	512	SDRAM. 4 DIMM sockets
Cache (K)		
I/O	EIDE, floppy, AIC 7880P SCSI, 10Base T	Narrow and Wide SCSIIO
Video		AGP
Performance		Fast

*Legend V*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	66-100	PII at 333
Chipset	BX	
BIOS	Award 4.51 PG	
Bus	4 PCI/3 ISA	
Memory (Mb)	384 SDRAM 768 EDO	3 DIMM sockets
Comments		JP6 clears the CMOS

*Legend VII*

Item	Description	Notes
Form Factor	Baby AT	
CPU		Socket 370
Speeds (MHz)	66	
Chipset	LX	
BIOS	Award 4.51 PG	
Bus	3 PCI/2 ISA	
Memory (Mb)	256	
Comments		

*Legend VIII*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	66-100	
Chipset	BX	
BIOS	Award 4.51 PG	
Bus	4 PCI/3 ISA	
Memory (Mb)	384 SDRAM 768 EDO	3 DIMM sockets

*Synactix 2E*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/733	FSB 166
Chipset	Intel 815E	
BIOS	Award	
Bus	6 PCI	UDMA/100
Memory (Mb)	512 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video	Intel 815 GMCH	AGP 4x
Audio	Analog Devices AD 1881	
Comments		

*Superb 1*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium/K6	Super Socket 7
Cache	512 Kb	
Chipset	SiS 530	
Bus	3 PCI/2 ISA	UDMA/66

Item	Description	Notes
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x
Audio	Crystal C54235	
Comments		

### Titanium 1B

Item	Description	Notes
Form Factor	AT	
CPU	Pentium Socket 7. AMD, Cyrix and Intel	
Comments	Good board. Overclocks nicely with Windows '95, though Flight Sim 98 doesn't like it.	

### P51430HX-T2 Frontier

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	
Speeds (MHz)	200	
Chipset	Intel 430HX	
BIOS	Award	
Bus	4 PCI/4 ISA	
Memory (Mb)	8-256	FPM, EDO & BEDO. ECC. 4 x 72-pin SIMMs.
Cache (K)	512	
I/O	2S, 1P, floppy, 2 EIDE, PS/2, USB, IR	

Jumper	Position	Function
JP6	<b>JP6</b> <b>JP10</b>	<b>System Clock</b>
JP10,11	Out    In	50 MHz
JP16	Out    Out	55 MHz
	1-2    In	60 MHz
	2-3    Out    In    In	66 MHz
JP7,26	<b>JP7</b> <b>JP26</b>	<b>CPU voltage</b>
	In    In	3.5v (single)
	In    Out	3.3v (single)
	Out    In	3.5v (double)
JP14,15	Out    Out	3.3v (double)
	<b>JP14</b> <b>JP15</b>	<b>Clock Multiplier</b>
	2-3    2-3	1.5x
	2-3    1-2	2x
	1-2    1-2	2.5x
JP21	1-2    2-3	3x
	Out	2.5v Core
	1-2	2.7v
JP22	2-3	2.9v
	In	Hardware Green (stop clock)
JP23	Out	Normal
	1-2	Reserved
JP24	2-3	Reserved
JC	In	Clear CMOS
	Out	Normal

### P61440FX

Item	Description	Notes
Form Factor	AT	
CPU	Pentium Pro	
Speeds (MHz)	150-200	
Chipset	Intel 440FX	



Item	Description	Notes
BIOS	Award	
Bus	4 PCI/4 ISA	
Memory (Mb)	8-256	FPM, EDO & BEDO. ECC. 4 x 72-pin SIMMs.
I/O	2S, 1P, floppy, 2 EIDE, PS/2, USB, IR	

Jumper	Position					Function
JP3-6	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>System Clock</b>	
	In	Out	In	Out	60 MHz*	
	Out	In	Out	In	66 MHz	
JP9	1-2					Clear CMOS
	2-3*					Normal
JP14-17	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP17</b>	<b>CPU clock multiplier</b>	
	In	In	In	In	2x	
	Out	In	In	In	2.5x	
	In	In	Out	In	3x	
	Out	In	Out	In	3.5x	
JP23-26	<b>JP23</b>	<b>JP24</b>	<b>JP25</b>	<b>JP26</b>	<b>CPU voltage</b>	
	Close	Close	Close	Close	3.5v	
	Close	Close	Close	Open	3.4v	
	Close	Close	Open	Close	3.3v	
	Close	Close	Open	Open	3.2v	
	Close	Open	Close	Close	3.1v	
	Close	Open	Close	Open	3v	
	Close	Open	Open	Close	2.9v	
	Close	Open	Open	Open	2.8v	
	Open	Close	Close	Close	2.7v	
	Open	Close	Close	Open	2.6v	
	Open	Close	Open	Close	2.5v	
	Open	Close	Open	Open	2.4v	
Open	Open	Close	Close	2.3v		
Open	Open	Close	Open	2.2v		
Open	Open	open	Close	2.1v		

*Winnex 1*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	66-100	
Chipset	Intel 810	
BIOS	Award 4.51 PG	
Bus	3 PCI/1 AMR	
Memory (Mb)		2 DIMM sockets
Sound		On board
Video	AGP	On board
Comments		PCI 2.2 compliant

Jumper	Position	Function
JAV	Closed	BIOS cannot be overwritten
	Open	BIOS can be flashed
JCC	1-2	Clear CMOS
	2-3	Normal
JSD	1-2	Disable on-board audio
	2-3	Enable
JKB	1-2	Enable keyboard password power-on(set also in BIOS)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
	2-3	Disable	
JSB	Open	Disconnect PCI 3.3VSB	
	Closed	Connect (use for AMR card)	
JFS0,1	<b>JFS0</b>	<b>JFS1</b>	<b>CPU FSB</b> (Overclocking)
	2-3	2-3	66 MHz
	Open	2-3	100 MHz
	Open	1-2	133 MHz
	1-2	2-3	Auto

## QTC

### P54TS

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	75-200	
Chipset	Triton	
BIOS		
Bus	3 PCI/4 ISA	
Memory (Mb)		FPM/EDO. 4 72-pin sockets
Cache (K)		Normal/pipelined burst
I/O		Adaptec AIC7870 SCSI

## Quanta

### Quantex

Rebadges Biostars.

### MBD-4MB2

See Biostar 8433 UUD.

### MBD-4PB2

See Biostar 8433 UUD.

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## Rectron

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0C-00	RT 4S3	1-01	Terminator 80486PCI

### *RT 4S3*

Same as Kaimei KM-S4-1 PCI rev 5.1 or Azza 4SIG

## RedFox

Fordlian?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	5ATXB rev B		

## Rise Computer Inc

www.rise.com.tw. See also MTech

## Robotech

### *GMB-486UNL*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	In*	Colour display
	Out	Mono
JP2	1-2	Discharge CMOS

<i>Jumper</i>	<i>Position</i>	<i>Function</i>				
	2-3*	Normal				
JP4	1-2,4-5,6-7	486DX/DX2				
	2-3,4-5,6-7	487SX				
	5-6	486SX				
JP6,7,9,11	<b>Cache size</b>	<b>JP6</b>	<b>JP7</b>	<b>JP9</b>	<b>JP11</b>	
	32K	Open	Open	Open	2-3	
	64K	Open	Short	Open	1-2	
	128K	Open	Short	Short	1-2,3-4	
	256K	Short	Short	Short	1-2,4-5	
JP19	In	>33 MHz System speed (VL bus)				
	Out	<=33 MHz System speed (VL bus)				
JP20	In	VL Bus 1 wait state				
	Out	VL Bus 0 wait state				
JP29-31	<b>System Speed</b>	<b>JP29</b>	<b>JP30</b>	<b>JP31</b>		
	25 MHz	In	Out	In		
	33 MHz	In	In	Out		
	40 MHz	Out	Out	In		
	50 MHz	Out	In	Out		
JP40-42 44,45	<b>Master/Slave</b>	<b>JP40</b>	<b>JP41</b>	<b>JP42</b>	<b>JP44</b>	<b>JP45</b>
	PAL/GAL installed	Out	Out	Out	1-2	2-3
	Not installed	In	In	In	2-3	2-3
JP43	1-2	Normal VL Bus clock speed (same as CPU)				
	2-3*	VL Bus clock speed same phase as U4800				

## S & D

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
AC	P6ALXA		

## Samsung

### *DM286-12*

Deskmaster. Motherboard/BIOS from Microfive.

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W2	On	Colour display
	Off	Mono
W3	On	Enable VGA
	Off	Disable

### *DM 386-33n*

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
NPU	1-2	Maths copro not installed
	2-3	Installed
SNA	In]Out	Enable cache pipeline mode
		Disable
NP1	In	Disable POST input
	Out	Enable POST input
ONBAT	In	Onboard battery
	Out	External battery
IRQ4	In	COM1 IRQ4
IRQ3	In	COM2 IRQ3
IRQ12	In	Enable mouse IRQ12

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Out	Disable
IRQ9	In	Enable VGA IRQ9
	Out	Disable
CRT	In	Colour display
	Out	Mono

SW1

<i>Switch</i>	<i>Position</i>			<i>Function</i>
S1-3	<b>1</b>	<b>2</b>	<b>3</b>	<b>VGA</b>
	On	On	Off	Enable
	Off	Off	On	Disable
S4	On			Enable write buffer mode
	Off			Disable
S5	On			16-bit mode
	Off			8-bit mode
S6	On			PS/2 VGA
	Off			PC/AT Video
S7	On			Older multi-frequency monitors
	Off			Standard PS/2 compatible

DM 386s-16

Switches as for DM386-33n

MFC 6000

Motherboard/BIOS from Microfive.

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	On	256K RAM chips
	Off	64K RAM chips
S2	On	640K
	Off	512K
S3		Reserved
S4	On	PC compatible keyboard
	Off	AT compatible keyboard
S5	On	COM1 as default system console
	Off	Monitor/keyboard as console
S6	On	10 MHz
	Off	8 MHz
S7		Reserved
S8	On	Colour display
	Off	Mono

PCT 286

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
J5	On	Enable mono display	
	Off	Disable	
J4,13	<b>J4</b>	<b>J13</b>	<b>Video</b>
	Off	Off	Onboard or add-in mono
	Off	On	Add-on CGA or EGA
	On	Off	Not used
	On	On	Onboard CGA
J23,29	On	Parallel port as LPT2, IRQ5	
	Off	Disable	
J3,22	On	Parallel port as LPT1, IRQ7	
	Off	Disable	
J38,25	On	Serial port as COM2, IRQ3	

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	Off	Disable
J2,24	On	Serial port as COM1, IRQ4
	Off	Disable
J14	On	XT keyboard
	Off	AT keyboard
J15	Off	Disable maintenance mode
	On	Enable

### S300

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
JP4,7		Reserved	
S1	On	Normal	
	Off	Loop POST	
S2	On	Coprocessor installed	
	Off	Not installed	
S3,4		Reserved	
S5,6	<b>S5</b>	<b>S6</b>	<b>Display</b>
	On	On	EGA
	Off	On	Colour 40x25
	On	Off	Colour 80x25
	Off	Off	Mono
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies</b>
	On	On	1 drive
	Off	Off	2 drives

### S500

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP1	On	Enable parallel port
JP3	On	Enable serial port
JP4	On	Enable COM2
JP5	On	Floppy secondary address
	Off	Floppy primary address
JP6,9	On	Enable floppy
JP7	On	Dual speed drive
	Off	Single speed
JP8	On	Precomp 187ns
	Off	125 ns
JP10,11	1-2	High state RAM size
	2-3	Low state
JP13	1-2	DMA operating clock=DMA clock
	2-3	DMA operating clock=SYS clock
JP14	On	512K
	Off	640K
JP16	2-3	10/8 MHz keyboard selectable
	1-2	10 MHz
	All out	8 MHz
SW1	Up	Colour display
	Down	Mono

### S5200

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
SW1	Off	Enable floppy
SW2	Off	Enable SCSI
SW3	Off	Enable serial port

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
SW4	Off	Serial port as COM1			
	On	COM2			
SW5	Off	Parallel port as LPT1			
	On	LPT2			
SW6	Off	Colour display			
	On	Mono			
SW7	Off	Primary address 2B0-2B7h			
	On	Secondary address 170-177h			
SW8,9	<b>SW8</b>	<b>SW9</b>	<b>Bank 0</b>	<b>Bank 1</b>	<b>RAM Type</b>
	On	On	4 Mb	1 Mb	1 Mb
	On	Off	2 Mb	1 Mb	None
	Off	On	1 Mb	256K	256K
SW10	Off	Off	512K	256K	None
	Reserved				

### S800

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JMP1	In	Pipelined mode
	Out	Non-pipelined
JMP2,3	In	Maths copro enabled
	Out	Not enabled
S1	On	Enable HD
S2,3	On	Double density floppies
	Off	High density
S4	On	Disable floppy
	Off	Enable floppy
S5	On	Enable COM1
S6	On	Enable COM2
S7	On	Enable LPT1
S8	On	Colour display
	Off	Mono

### SD700

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
NPX	1-2	386SX not installed	
	2-3	Installed	
JP1,8	<b>JP1</b>	<b>JP8</b>	<b>Serial port</b>
	3-4	7-8	9-pin is COM1
	1-2	7-8	25-pin is COM2
	7-8	7-8	9-pin is COM2
	5-6	7-8	25-pin is COM1
	11-12		Parallel port is LPT1
JP2		1-2	Parallel port is LPT2
	In		512K EPROM
JP3,7	Out		256K EPROM
	<b>JP3</b>	<b>JP7</b>	<b>HD Type</b>
JP6	Off	On	Miniscribe old version
	On	Off	Any other
JP8	Out		Enable IDE
	In		Other HD controller
JP10	3-4		Disable parallel port
	5-6		Disable 9-pin serial port
	9-10		Disable 25-pin serial port
JP10	Out		Mono display
	In		Colour



### SD820

As for Packard Bell PB 386-25 Rev D

### SD830

As for Packard Bell PB 386-33

### SM 386/33T

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
P1	1-2	64K cache
	2-3	128K
P2	In	80387 installed
	Out	Weitek installed
P3	In	512K EPROM
	Out	256K
P11	In	Feature enabled
	Out	Test only
P12	Out	Page violation
	In	Test only
P16	A	Mouse installed
	B	Not installed
P17	A	Floppy enabled
	B	HD enabled

### SM 486/25TE

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J1	1-2	Enable external cache
	Out	Disable
J2	1-2	33 MHz
	2-3	25 MHz
J15	1-2	Disable I/O recovery delay
	2-3	Enable
J16	1-2	Always
	2-3	Reserved

	1 Mb	2 Mb	4 Mb	8 Mb	16 Mb	32 Mb
J3	Out	1-2	Out	1-2	Out	1-2
J4	Out	1-2	Out	1-2	Out	1-2
J5	Out	1-2	Out	1-2	Out	1-2
J6	Out	1-2	Out	1-2	Out	1-2
J7	Out	Out	Out	1-2	2-3	1-2
J8	2-3	1-2	1-2	1-2	1-2	1-2
J9	Out	Out	2-3	1-2	1-2	1-2
J10	1-2	1-2	1-2	2-3	2-3	2-3
J11	1-2	1-2	1-2	1-2	1-2	2-3
J12	1-2	2-3	2-3	2-3	2-3	2-3

### SM 486/33TE

As for SM 486/25TE

### SPC 3000

Processor board

Switch	Position	Function
S1		POST
S2	On Off	Coprocessor not installed Installed
S3		Reserved
S4		Reserved
S5,6	<b>S5</b> Off On Off On	<b>S6</b> On Off Off On
		<b>Video</b> Low Res graphics High Res graphics Mono Auto
S7,8	<b>S7</b> On Off	<b>S8</b> On On
		<b>Floppies</b> 1 drive 2 drives

### SPC 3000V

Switch	Position	Function
S1	Off On	Serial port is COM1 Serial port is COM2
S2	Off On	Parallel port is LPT1 Parallel port is LPT2
S3,4	<b>S3</b> On Off Off On	<b>S4</b> Off On Off On
		<b>Video Type</b> 40x25 colour 80x25 colour 80x25 Mono Disable

### SPC 6100

Jumper	Position	Function
JP1		Reserved
JP2	1-2 2-3	Mono display Colour
JP3	In Out	Disable 2 <sup>nd</sup> 256K of main board RAM Enable
JP5	In Out	640K main board RAM 1 Mb
JP23	1-2 2-3	Enable LPT1 Enable LPT2
JP24	1-2 1-3 2-4 3-4	25-pin serial port is COM2 9-pin serial port is COM2 25-pin serial port is COM1 9-pin serial port is COM1
JP27	1-3 2-4	Enable LPT2 Enable LPT1
JP33	1-2 1-3 2-4 3-4	25-pin serial port is COM2 25-pin serial port is COM1 9-pin serial port is COM2 9-pin serial port is COM1

### SPC 6500

#### Processor board

Jumper	Position	Function
CN2	A-C B-C	Mono display Colour
CN5		Reserved
CN6		Speaker
CN8,9	A-C	5.4 MHz maths copro enabled

Jumper	Position	Function
	C-B	8 MHz
CN10		Daughter board connector
CN13	A-C	6 MHz
	B-C	10 MHz

## Sam-Tec

[www.computersources.com.hk/samtec](http://www.computersources.com.hk/samtec)

## San-Li

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	SL-586V	CC	SP-P2LXC
BC	SL-586V+/NPXT3 vC		

### SL-586V

Acorp 586VX?

### SL 586V+

Acorp 5VX32 ver B

## San Carlos Computers

Rebadges Biostars.

## SBC

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	PC 560		

## Seanix

[www.seanix.com](http://www.seanix.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0-00	S 895 Rev 2.A		

## See-thru Data Systems

[www.seethru.com](http://www.seethru.com)

## Shuttle

Holco. [www.spacewalker.com](http://www.spacewalker.com)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	HOT 523	CC	HOT 541
1-00	HOT 433 non PS/2	EC-00	HOT 565
9C	HOT 553/555/603	IC	HOT 557 v1.5
9C-00	HOT 539C rev2	HC-00	HOT 569
AC	HOT 541/617	KC	HOT 555A
BC	HOT 555/557 v1.32		

### HOT-419

486 VL Bus. CPU setting also uses resistor pack on JPA, B and C. Align pin 1 of resistor to mark on board.

Jumper	Position			Function		
JP10-11 13,50		<b>JP10</b>	<b>JP11</b>	<b>JP13</b>	<b>JP50</b>	<b>Cache size</b>
	Open	Open	2-3	Open	64K (8Kx8)	
	Open	Short	1-2	Open	128K (32Kx8)	
	Short	Short	2-3	Open	256K (32Kx8 double bank)	
	Short	Short	1-2	Open	256K (64Kx8 single bank)	
JP21-23		<b>JP21</b>	<b>JP22</b>	<b>JP23</b>		<b>System clock</b>
	2-3	2-3	1-2		20 MHz	
	1-2	2-3	1-2		25 MHz	
	2-3	1-2	2-3		33 MHz	
	1-2	2-3	1-2		40 MHz	
	2-3	1-2	1-2		50 MHz	
	Open	2-3	2-3		25 MHz (DX4, P24T)	
	2-3	Open	2-3		33 MHz (DX4, P24T)	
2-3	Open	Open		50 MHz (DX4, P24T)		
JPA-C	Set resistors					486DX/DX2
	Set resistors					486SX, UMC U5-S
	Resistors + JP44,45,46					486DX/DX2/DX4 S, AM486 Enh
	Resistors + JP44,45,46					486SX-S
	Resistors + JP44,45,46					P24D (DX2 w/b)
	Resistors + JP44,45,46					P24T
	Set resistors					Am486DX/DX2/DX4
Resistors + JP48					Cyrix 486S	
Resistors + JP48					Cyrix 486DX/DX2	
JP30	Short					Colour display
	Open					Mono
JP33	Open					VESA bus high speed write 0 WS
	Short					VESA bus high speed write 1 WS
JP34	Close					VL Bus speed >33 MHz
	Open					VL Bus speed <=33 MHz
JP36	2-3					Normal
	1-2					Delay CPU ADS# signal
JP53	1-2					Reserved
JP55,69		<b>JP55</b>	<b>JP69</b>			<b>CPU RDY# signal delay</b>
	1-2,3-4	Open				33/50 MHz with fast VL bus devices
	2-3	Short				33/50 MHz with slow VL bus devices
JP58	Open					P24T cache w/t
	Close					P24T cache w/b
JP59	Open					P24D cache w/t
	Close					P24D cache w/b
JP60-62	<b>JP60-62</b>	<b>JP70-72</b>				<b>Memory modes</b>

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
70-72	Short	2-3	2 VESA master slots (J20 + another)
	Open	1-2	1 VESA master slot (J20 is slave)
JP63			Power management indicator
JP64,73	<b>JP64</b>	<b>JP73</b>	<b>CPU voltage</b>
	1-3,2-4	N/A	5v
	3-5,2-6	1-2	3.3v
	3-5,2-6	Open	3.45v
JP65	2-3		CPU 3x (DX4)
	1-2		CPU 2x (DX4)
JP67	Close		reserved
JP68			EPMI connector (power save)
JP74	2-3		Reserved
JP77	2-3		Reserved
JP79	1-2		Reserved

### HOT-433P

#### 486 PCI

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
JP1-3	<b>JP1</b>	<b>JP2</b>	<b>JP3</b>		<b>System clock</b>
	2-3	2-3	1-2		25 MHz
	1-2	1-2	1-2		33 MHz
	2-3	1-2	1-2		40 MHz
	1-2	2-3	2-3		50 MHz
JP8	1-2				12v Flash ROM
	2-3 or Open				5v
JP11-14	<b>JP11</b>	<b>JP12</b>	<b>JP13</b>	<b>JP14</b>	<b>Cache Size</b>
			2-3		128K
			1-2	1-2	256K (Double bank)
		1-2	2-3	1-2	256K (Single Bank)
	1-2	1-2	2-3	1-2,3-4	512K (Single Bank)
		2-3	1-2	1-2,3-4	512K (Double Bank)
JP15,16	<b>JP9</b>	<b>JP15</b>	<b>JP16</b>		<b>CPU Voltage</b>
		1-2	1-2		5v
	1-2	2-3	2-3		3.3v
	3-4	2-3	2-3		3.45v
	5-6	2-3	2-3		3.6v
JP17-32	7-8				4v
	JP10 1-2 2-4, JP19 1-2, JP25 1-2, JP28 1-2 3-4, JP30 3-4				486DX/DX2
	JP10 1-2 2-4, JP19 1-2, JP25 1-2, JP28 2-3, JP30 3-4				486SX
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP25 2-3, JP28 2-3				486SX-S
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP25 2-3, JP28 1-2 3-4, JP30 3-4				DX/DX2/DX4-S
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP 22 In, JP23 In, JP25 2-3, JP28 1-2 3-4, JP30 3-4, JP31 In, JP32 In				P24D
	JP10 1-2 2-4, JP17 1-2, JP19 3-4 5-6, JP20 2-3 4-5, JP21 1-2, JP25 2-3, JP27 2-3, JP30 2-3				P24T
	JP10 1-2 2-4, JP17 1-2, JP19 3-4 5-6, JP20 2-3 4-5, JP21 1-2, JP25 2-3				Am486DX/DX2/DX4 (NV8T, SV8T)
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP25 2-3				Am486DX4 enh (SV8B)
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP22 In, JP23 In, JP24 2-3, JP25 2-3, JP28 1-2 3-4, JP30 3-4, JP31 In, JP32 In				Am5x86-P75 (X5-133)
	JP10 1-2 2-4, JP17 1-2, JP19 3-4, JP20 2-3 4-5, JP21 1-2, JP25 2-3, JP26 2-3, JP27 1-2, JP28 1-2 3-4, JP29 2-3, JP30 3-4				Cyrix 5x86
	JP10 1-3 4-6, JP17 2-3, JP19 3-4, JP20 1-2 3-4, JP21 1-2, JP25 2-3, JP26 2-3, JP27 1-2, JP28 1-2 3-4, JP29 2-3, JP30 3-4				Cyrix Cx486DX/DX2/DX4
	JP10 1-3 4-6, JP17 2-3, JP19 3-4, JP20 1-2 3-4, JP21 1-2, JP25 2-3, JP26 2-3, JP27 1-2, JP28 2-3, JP29 1-2				Cyrix Cx486S (M6)

Jumper	Position	Function
	JP10 1-3 4-6, JP19 1-2, JP21 2-3, JP25 2-3, JP26 1-2, JP27 2-3, JP28 2-3, JP29 3-4, JP30 1-2 3-4	UMC 486S U5
JP18	None 2-3	3:1 Core-Bus ratio 2:1 (4:1 X5-133)
JP24	1-2 2-3 None	P24D WT cache P24D WB cache Other CPU

**HOT-555A**

Jumper	Position	Function	
JP18	1-2 2-3	12v Flash EPROM 5v Flash EPROM	
JP33-4 JP39,JP43	JP33      JP34 None      In None      In None      In None      In None      In	JP39      JP43 None      1-2 2-4      1-2 3-4      1-2 1-3      1-2 1-2,2-4      1-2	<b>Single CPU voltage</b> (VIO=Vcore) 2-8v 2.9v 3.1v 3.3v 3.5v
JP33-4 JP39,JP43	JP33      JP34 3,4,5-6      Out 3-4,5-6      Out 3-4,5-6      Out 3-4,5-6      Out 3-4,5-6      Out	JP39      JP43 None 2-4 3-4 1-2 2-4	<b>Dual CPU voltage</b> (VIO, Vcore separate) 2-8v (Vcore) 2.9v (Vcore) 3.1v (Vcore) 3.3v (VIO) 3.4v (VIO)
	33 1-2 (open) & 44 (shut) reserved		
JP45	In Out	Normal CMOS Clear CMOS	

**HOT 569**

Same as Acusharp Excalibur TX 1569

**HOT-661V**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	
Speeds (MHz)	333	
Chipset	Via Apollo	
BIOS	Award 4.51PG	NCR SCSI
Bus	4 PCI/3 ISA	
Memory (Mb)		4 banks SDRAM
Video		AGP

Jumper	Position	Function
J17	1-2 2-3	12v Flash EPROM 5v Flash EPROM
JP19		Clear CMOS
JP37	1-2,3-4,5-6,7-8 1-2,3-4,5-6 1-2,5-6,7-8 1-2,5-6 3-4,5-6,7-8 3-4,5-6 5-6,7-8	2x CPU Clock Ratio 2.5x CPU Clock Ratio 3x CPU Clock Ratio 3.5x CPU Clock Ratio 4x CPU Clock Ratio 4.5x CPU Clock Ratio 5x CPU Clock Ratio
JP38	<b>JP38</b> 1-2,4-5	<b>JP44</b> 2-3 <b>Keyboard/PS2 mouse power-on</b> Disabled

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	2-3,5-6	1-2 Enabled
	2-3,4-5	1-2 Mouse only
	1-2,5-6	2-3 Keyboard only
JP39	1-2,3-4,5-6	50 MHz CPU Host Clock
	5-6	66 MHz CPU Host Clock
	3-4,5-6	75 MHz CPU Host Clock
	1-2,5-6	83 MHz CPU Host Clock
	None	100 MHz CPU Host Clock
	1-2,3-4	103 MHz CPU Host Clock
JP45		Overspeeds 66-100 MHz bus speed (disregards CPU)

## Silicon Star Intl

See Abit.

## SMT

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	TX3	CC	5TA
BC	5TA		

## Soltek

Now EpoX. [www.soltek.com.tw](http://www.soltek.com.tw)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	82440FX (Ppro)	CC	SL 54P5/U5
9C	SL 54P5	EC	SL 56D5/D!
AC-01	SL-54T5	FC	SL 66B

### SL54P2/P5

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
SW1	<b>S1</b>	<b>S2</b> <b>Clock Multiplier</b>
S1-2,5	Off	Off 1.5x
	On	Off 2x
	On	On 2.5x
	Off	On 3x
	Off	Off 3.5x
	On	Off 4x
	On	On 4.5x
	Off	On 5x
	Off	Off 5.5x
S3-4	<b>S3</b>	<b>S4</b> <b>Host bus speed</b>
	On	Off 60 MHz
	Off	Off 66 MHz
S5	On	AMD K6 CPU
S6	On	AT Power Supply
	Off	ATX

Jumper	Position	Function
JP7	1-2	Clear CMOS
	2-3	Normal
JP14	Open	2v CPU
	1-2	2.1v
	3-4	2.2v
	1-2,3-4	2.3v
	5-6	2.4v
	1-2,5-6	2.5v
	3-4,5-6	2.6v
	1-2,3-4,5-6	2.7v
	7-8	2.8v
	1-2,7-8	2.9v
	3-4,7-8	3v
	1-2,3-4,7-8	3.1v
	5-6,7-8	3.2v
	1-2,5-6,7-8	3.3v
3-4,5-6,7-8	3.4v	
1-2,3-4,5-6,7-8	3.5v	
JP15	1-2	Non-Intel Flash or normal
	2-3	Intel Flash
J1	1-4	HD
	6-10	IR
	12-13	Power
	14-15	Sleep
J2	1-4	Speaker
	5-6	Reset
	8-10	Power LED
	11-12	Keylock
	14-15	Turbo LED

**SL 65MV**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/700	FSB 200
Chipset	VIA ProSavage PM133	
BIOS	Award	
Bus	5 PCI/1 ISA/1 AMR	UDMA/66
Memory (Mb)	1.5 Gb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video	S3 Savage 4	AGP 4x
Audio	WM9701A	
Comments		

**Sowah Research**

www.sowah.com

Spears Motherboard?

**Award BIOS ID**

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
FC-00	SR-M504		

**SR-M504**

Spears Motherboard SM-M504?



## Soyo

www.soyo.co.uk www.soyo.com.tw www.soyo.nl

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1	25M/N/P/Q/R/R2	AC	5TF
1-00	30 A/B/C Serial or 030F2	BC-00	5BT5
1-00	025N2	GC-00	5VD2/D5
2-00	4S A2/A5	HC	5TA2
3	25J/K/L	IC	5VA
9	4SA W2/W5	LC	5TC2
9C	5TF0/2/5	PC	5TE2/5TCU
9C-00	5VA2 or 4SA W2/W5	QC	5TA2

### VL Bus 486

Jumper	Position				Function
JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>		<b>CPU clock</b>
	Open	Open	Close		25 MHz
	Close	Close	Close		33 MHz
	Open	Close	Close		40 MHz
JP9,10					50 MHz
	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>Cache size</b>
	On	On	2-3	2-3	256K (2 banks SRAM)
	On	On	1-2,3-4	1-2	256K (1 bank SRAM)
JP14-16,23					128K
					64K
	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP23</b>	<b>CPU voltage</b>
	1-2	1-2	1-2	Close	3.3v
JP21					3.45v
					5v
	Close				VESA clock >33 MHz
JP22					VESA clock <=33 MHz
	Close				VESA 1 wait state
JP30					VESA 0 wait state
	Close*				Output clock speed select

CPU (Blue)	JP11	JP12	JP13	JP17	JP18	JP19
486SX	-	2-3	2-3	-	-	-
DX/DX2	-	2-3	1-2,3-4	1-2	-	-
DX/SL	1-2	1-2	1-2,3-4	1-2	5-6	1-2,3-4
P24D	1-2,4-5	1-2,4-5	1-2,3-4	1-2	3-4,5-6	1-2,3-4
P24T	1-2	1-2	1-2,3-4	2-3	5-6	1-2,3-4
Cyrix M6	1-2,3-4,5-6*	1-2,3-4,5-6	2-3	-	2-3,4-5	2-3,4-5
Cyrix M7	1-2,3-4,5-6*	1-2,3-4,5-6	1-2,3-4	1-2	2-3,4-5	2-3
AMD DXL	2-3	2-3	1-2,3-4	1-2,3-4	1-2	-
UMC 486	2-3	2-3	2-3	3-4	1-2	-

\* is for double clock. For P24C, as for DX-SL plus JP20 Open for 3x, 1-2 for 2.5x, 2-3 for 2x

### SY-D61BA(2)

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1

Item	Description	Notes
Speeds (MHz)		
Chipset	82440BX	133 MHz bus speed
BIOS	Award	
Bus	4 PCI/2 ISA	
Memory (Mb)	1024	4 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3. Adaptec 7880 UW SCSI
Video	AGP	
Audio		

**SY-D61GA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Xeon	SMP Slot 2
Chipset	Intel 82440GX	
BIOS		
Bus	6 PCI	100
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR, Intel 82558 LAN	Adaptec AIC-7890AB
Video	AGP	2x

**SY-25J/K/L**

486 VESA

Jumper	Position	Function		
JP3	In	Colour		
	Out	Mono		
JP4	In	8 MHz (standby) mode		
	Out	Full speed		
JP5	1-2	Retain CMOS data		
	2-3	Discharge CMOS		
JP6		Green switch. Pin 1 is GRD.		
JP9,10,13	<b>JP9</b>	<b>JP10</b>	<b>JP13</b>	<b>Cache size</b>
	2-3	N/A	1-2	64K
	2-3	1-2	2-3	128K
	1-2	2-3	2-3	256K (2 banks SRAM)
	1-2	2-3	2-3	256K (1 bank SRAM)
JP29-31	<b>JP29</b>	<b>JP30</b>	<b>JP31</b>	<b>CPU external speed (red jumpers)</b>
	In	Out	In	25 MHz
	Out	In	In	33 MHz
	In	Out	Out	40 MHz
JP24	1-3,2-4			5v
	3-5,4-6			3.45v
JP35-37	All 1-2			Bank 0=30 pin SIMMs
	All 2-3			Bank 0=72 pin SIMMs

CPU (Blue)	JP1	JP2	JP11	JP12	JP14	JP15	JP16	JP18	JP19	JP20	JP21	JP22	JP23
486SX	2-3	1-2	3-4	2-3	2-3	-	-	2-3	4-5	-	1-2	-	-
DX/S1/4,ODP	2-3	1-2	3-4	2-3	3-4	2-3	-	2-3	4-5	-	1-2	-	-
Cyrix S/DX (M7)	1-2	2-3	2-3	1-2	1-2,3-4	2-3	-	2-3	2-3	-	-	2-3	2-3
AMD DX2/80	2-3	1-2	3-4	2-3	1-2,3-4	2-3	-	2-3	4-5	2-3	1-2	-	-
AMD DX4/100	2-3	1-2	3-4	2-3	1-2,3-4	2-3	-	2-3	4-5	1-2	1-2	-	-
P24T	2-3	1-2	3-4	2-3	1-2,3-4	1-2	-	2-3	1-2	-	-	1-2	1-2
P24D	1-2	1-2	1-2,3-4	2-3	1-2,3-4	2-3	In	1-2	4-5	2-3	2-3	1-2	-
DX4 (P24C)**	2-3	1-2	3-4	2-3	1-2,3-4	2-3	-	2-3	4-5	-	1-2	-	-

\*\*JP27 and 34 always in except for DX4 (P24C) which has JP34 out.

**SY-25 Q/R, T Serial**

## 486 VESA

Jumpers	Position				Function
J20	2-3*				Retain CMOS data
	3-4				Discharge CMOS
	1-4				External battery
JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>CPU external speed</b> (red jumpers)	
	Out	Out	In	25 MHz	
	In	In	In	33 MHz	
	Out	In	In	40 MHz	
	In	Out	Out	50 MHz	
	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP27</b>	<b>CPU voltage</b>
	1-2	1-2	1-2	1-2	3.45v
	1-2	1-2	1-2	2-3	3.6v
	1-2	1-2	1-2	5-6	4v
	2-3	2-3	2-3	None	5v
JP9,10	<b>JP9</b>	<b>JP10</b>			<b>Cache size</b>
	2-3	2-3			256K (2 banks SRAM)
	1-2,3-4	1-2			256K (1 bank SRAM)

CPU (Blue)	JP11	JP12	JP13	JP17	JP18	JP19	JP20	JP26
486SX	-	2-3	2-3	-	-	-	-	-
DX/DX2	-	2-3	1-2,3-4	1-2	-	-	-	-
DX/SL,DX4,ODP	1-2	1-2	1-2,3-4	1-2	5-6	1-2,3-4	-	-
P24T (OD)	1-2	1-2	1-2,3-4	2-3	5-6	1-2,3-4	-	-
DX4	1-2	1-2	1-2,3-4	1-2	5-6	1-2,3-4	-	-
P24D	1-2,4-5	1-2,4-5	1-2,3-4	1-2	3-4,5-6	1-2,3-4	-	-
AMD DXL/2	2-3	2-3	1-2,3-4	1-2,3-4	1-2	-	-	-
AMD DX2	-	2-3	1-2,3-4	1-2	-	-	-	In
AMD DX4	-	2-3	1-2,3-4	1-2	-	-	-	-
Cyrix DX/DX2	1-2,3-4	1-2,3-4,5-6	1-2,3-4	1-2	2-3,4-5	2-3	-	-
UMC U5S	2-3	2-3	2-3	3-4	1-2	-	-	-

**SY-5BT5**

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Chipset	430 TX	75 MHz bus speed
Bus	4 PCI/3 ISA	
Memory (Mb)		2 DIMM sockets, 2 72-pin
Cache (K)	512K	
I/O	2S, 1P, USB, PS/2	UDMA 3

**SY-5EAS5**

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Socket 7
Speeds (MHz)		
Chipset	Eteq 6618	
BIOS	Award	
Bus	3 PCI/4 ISA	66
Memory (Mb)	512	
Cache (K)	1 Mb	
I/O	2S, 1P, USB, PS/2	UDMA 3

**SY-5ED5/M**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Socket 7
Speeds (MHz)	266	
Chipset	Eteq 6628	VIA Apollo VP3 under licence
Bus	5 PCI/2 ISA	75 MHz
Memory (Mb)		3 DIMM sockets, 2 72-pin
Cache (K)	512K/1 Mb	
I/O	2S, 1P, USB, PS/2	UDMA 3
Video		AGP

**SY-5EHM**

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium	Super Socket 7
Speeds (MHz)		
Chipset	Eteq 6638/EQ 82	
BIOS	Award	
Bus	3 PCI/3 ISA	66-100
Memory (Mb)	576 Mb	
Cache (K)	1 Mb	
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

**SY-5EMA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Super Socket 7
Speeds (MHz)		
Chipset	Eteq 6638 EQ 82C)	124 MHz bus speed
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	
Memory (Mb)	512 Mb	2 DIMM sockets, 2 72-pin
Cache (K)	1 Mb	
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP
Problems		Poor documentation
Comments		Cheap, but MSI MS5169 is a better buy

**SY-5EMM**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Super Socket 7
Speeds (MHz)		
Chipset	Eteq 6638	100 MHz bus speed
Bus	4 PCI/3 ISA	
Memory (Mb)		2 DIMM sockets, 2 72-pin
Cache (K)	1 Mb	
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP

**SY-5SSM**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Super Socket 7
BIOS	Award	

Item	Description	Notes
Chipset	SiS 530	
Bus	4 PCI/1 ISA	66-83
Memory (Mb)	768	
Cache (K)	1 Mb	
I/O	2S, 1P, USP, PS/2	UDMA 3
Performance		Good – just behind Tyan S1590
Video/Sound		AGP/ESS 1938S 3D on board (no slots)

### SY-5STM

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Super Socket 7
BIOS	Award	
Chipset	SiS 5598	
Bus	2 PCI/2 ISA	66-83
Memory (Mb)	256	
Cache (K)	1 Mb	
I/O	2S, 1P, USP, PS/2	UDMA 3

### SY-5T F0/F2/F5 Serial

Item	Description	Notes
Form Factor	AT	
CPU	Pentium MMX	Cyrix 6x86, AMD 5x86. Socket 7.
Speeds (MHz)	75-200	
Chipset		
BIOS	Award PnP Flash	NCR 810 SCSI supported
Bus	4 PCI/4 ISA	
Memory (Mb)	4-512	EDO
Cache (K)	512	256 standard. PB. COAST upgrade.
I/O	2S, 1P, Floppy, 2 EIDE, PS/2	
Comments		Defaults setup for Pentium 100

Jumper	Position	Function	
JP3	In*	EGA/VGA	
	Out	Mono	
JP4	1-2	Reserved	
JP5	In	Clear CMOS data	
	Out*	Retain CMOS data	
JP6	2-3	Reserved	
JP10,11	<b>JP10</b>	<b>JP11</b>	<b>Host bus Speed</b>
			In In 25 MHz
	Out Out 27.5 MHz		
	In Out 30 MHz		
Out In 33 MHz			
JP13,14	<b>JP13</b>	<b>JP14</b>	<b>Core/Bus Ratio</b>
			Out* Out* 3/2 (1.5)
	In Out 2/1 (2)		
	In In 5/2 (2.5)		
Out In 3/1 (.33)			
JP20	Out*	256K PB cache	
	In	512K PB cache (COAST upgrade)	
JP22	2-3	Reserved	
JP24	2-3	Reserved	
JP40	In	Reserved	
JP30,31	JP30 JP31	CPU voltage	

Jumper	Position		Function
	In*	Out*	Standard and VR (3.3v + 5%)
	Out	In	VRE (3.45-3.6v)
JPS2	In		Enable PS/2 mouse (IRQ12 available to system)
	Out*		Disable PS/2 mouse (IRQ12 available to system)

**SY-5XA5**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium	Socket 7
Speeds (MHz)		
Chipset	430 TX	75 MHz bus speed
BIOS		
Bus	5 PCI/3 ISA	
Memory (Mb)		3 DIMM sockets, 2 72-pin
Cache (K)	512K	
I/O	2S, 1P, USP, PS/2	UDMA 3

**SY-6BA+(III/IV)**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Chipset	440BX	
BIOS	Award	
Bus	5 PCI/2 ISA	66-133
Memory (Mb)	1 Gb	4 DIMM sockets PC100
I/O	2S, 1P, USP, PS/2	UDMA/33
Video	AGP	
Performance		Good – near Super Micro P6SBA

**SY-6BB**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	440BX	133 MHz bus speed
BIOS		
Bus	3 PCI/3 ISA	
Memory (Mb)		3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3

**SY-6BE(+)**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	82440BX	
BIOS	Award	
Bus	4 PCI/3 ISA	66-133
Memory (Mb)	768	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

*SY-6IBM*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	82440BX	
BIOS	Award	
Bus	3 PCI/1 ISA	66-133
Memory (Mb)	768	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		

*SY-6IZA*

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 82440ZX	
BIOS	Award	
Bus	3 PCI	66-133
Memory (Mb)	256 Mb	
I/O	The usual	
Video	AGP	

*SY-6KB*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-333	
Bus	4 PCI/3 ISA	
Memory (Mb)	512	SDRAM/EDO. 4 DIMM sockets
Video		AGP
Performance		Poor
Comments		Poor documentation

*SY-6KD*

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1
Speeds (MHz)		
Chipset	440 LX	66/75
Bus	4 PCI/2 ISA	
Memory (Mb)		4 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video		AGP

*SY-6KE*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	440LX	
BIOS	Award	
Bus	4 PCI/3 ISA	66-100

Item	Description	Notes
Memory (Mb)	768	3 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

**SY-6KL**

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II	Slot 1
Chipset	440LX	83 MHz bus speed
Bus	3 PCI/3 ISA	
Memory (Mb)		3 DIMM sockets, 2 72-pin
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

**SY-6VZA**

Item	Description	Notes
Form Factor	ATX	
CPU		Socket 370
Chipset	Apollo Pro	
BIOS	Award	
Bus	3 PCI	66-133
Memory (Mb)	512	2 DIMM sockets
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

**SY-71WA-F**

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Speeds (MHz)	500	
Chipset	Intel 810	
BIOS	Award	
Bus	5 PCI	Possibly 1 ISA depends on model
Memory (Mb)	512	3 DIMM sockets PC 100
Cache (K)		
I/O	2S, 1P, USP, PS/2, joystick, audio	UDMA 3

**SY 7VCA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	866/533	FSB 155
Chipset	VIA Apollo Pro 133A	
BIOS	Award	
Bus	5 PCI/1 ISA/1 AMR	UDMA/66
Memory (Mb)	1.5 Gb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video		AGP 4x
Audio	Sigmatel STAC9721T	
Comments		

**SY-V6BE+**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		



Item	Description	Notes
Chipset	Apollo Pro	
BIOS	Award	
Bus	4 PCI/3 ISA	66-133
Memory (Mb)	768	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, USP, PS/2	UDMA 3
Video	AGP	

## Spacewalker

See Shuttle

## Spear Motherboard

Sowah Research?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
CC-00	SM-M504		

### *SM-M504*

Sowah Research SR-M504?

## Spica

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	P5TX-AT	AC	SC 9700

## Spring Circle

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	SP566	AC-00	P561-U03
9C-00	P5C01	BC	ST586/P561-4
AC	ST586/SP564	BC	P571-3

## Sukjung

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	SJ-PTM HX		

## SuperMicro

www.supermicro.com

### 370SBA

Item	Description	Notes
Form Factor	ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		66-100
Chipset	Intel 440BX	
BIOS	AMI	
Bus	4 PCI 1 ISA	
Memory (Mb)	768 Mb	
Video		AGP
Comments		

### 370SLM

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		66
Chipset	Intel 440LX	
BIOS	AMI	
Bus	3 PCI	
Memory (Mb)	768 Mb	
Video		AGP
Comments		

### 370SSA

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/733	FSB 133
Chipset	Intel 815E	
BIOS	AMI	
Bus	6 PCI/1 AMR	UDMA/100
Memory (Mb)	512 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video	Intel 815 GMCH	AGP Pro 4x
Audio	Crystal 4299	
Comments		

### 370SVM

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		66-100
Chipset	Via Apollo +	
BIOS	Award	
Bus	3 PCI	
Memory (Mb)	768 Mb	
Video		AGP

### 370SWM

Item	Description	Notes
Form Factor	Micro ATX	

Item	Description	Notes
CPU	Celeron	Socket 370
Speeds (MHz)		66-133
Chipset	Intel 810	
BIOS	AMI	
Bus	2 PCI	
Memory (Mb)	768 Mb	
Video		AGP

### PIISCA(E)

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Speeds (MHz)		133 FSB
Chipset	Intel 820	
BIOS	AMI	
Bus	5 PCI 1 AMR	1 each shared. UDMA/66
Memory (Mb)		2 RIMM/2 DIMM sockets E has 3 RIMM sockets
Video		AGP 4x
Comments		Better try a Via Apollo Pro Plus board, or Slot A

### PIIISEA

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Speeds (MHz)		133 FSB
Chipset	Intel 810E	
BIOS	AMI	
Bus	4 PCI/3 ISA 1 AMR	1 each shared. UDMA/66
Memory (Mb)		2 DIMM sockets
Video		Mediocre
Comments		Via Apollo or 820 is better for performance

### P5MMA98

Item	Description	Notes
Bus	4 PCI/4 ISA	1 each shared
Memory (Mb)		4 72-pin slots
Problems		Linux can lock up during boot due to keyboard timeout. Recommended Flash ROM update can kill BIOS and board (possibly upgraded now).

### P55

Item	Description	Notes
Speeds (MHz)	75-180	
Chipset	Triton	
Bus	3 PCI/4 ISA	1 each shared. PCI busmastering. Use triton.exe.
Memory (Mb)	128	FPM/EDO. 4 SIMM sockets.
Cache (K)	512	CWA has asynchronous, CWS has pipelined burst synchronous.
I/O	EIDE Mode 4	
Comments		Cheap

### P6DBE

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1
Speeds (MHz)	233-450	

Item	Description	Notes
Chipset	440BX	
BIOS	AMI 2 Mb	
Bus	5 PCI/2 ISA	
Memory (Mb)	1 Gb registered SDRAM	4 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	
Video		AGP

*P6DBS*

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1
Speeds (MHz)	233-450	
Chipset	440BX	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	
Memory (Mb)	1 Gb registered SDRAM	4 DIMM sockets
Cache (K)		
I/O	2 EIDE, floppy, USB	AIC 7895 Dual UW+50 pin. RAIDport II
Video		AGP

*P6DGU*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Xeon	SMP Slot 2
Cache		
Chipset	Intel 440GX	
BIOS		
Bus	5 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR	Adaptec AIC-7890AB
Video		AGP 2x

*P6DLS*

Item	Description	Notes
Form Factor	ATX	
CPU	2 Pentium II	Slot 1
Speeds (MHz)	450	
Chipset	440LX	
BIOS	AMI	
Bus	4 PCI/3 ISA	
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets
Cache (K)		
I/O	UDMA EIDE, floppy, AIC 7880P SCSI	Ultra and Ultrawide ports
Performance		Solid

*P6DGH*

Item	Description	Notes
Form Factor	AT	
CPU	Dual Pentium II	
Speeds (MHz)	233-450	
Chipset	440GX	
BIOS	AMI 2 Mb	
Bus	9 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets

Item	Description	Notes
Cache (K)		
I/O	2 EIDE, floppy, USB	AIC 7896 Dual Ultra 2. RAIDport III. UDMA
Video		AGP

### P6DGU

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II	Slot 1
Speeds (MHz)	233-450	
Chipset	440GX	
BIOS	AMI 2 Mb	
Bus	5 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB	AIC 7890 U2W+UW+50 pin. RAIDport III
Video		AGP

### P6SBA

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-450	
Chipset	440BX	
BIOS	AMI WinBIOS 2.5	
Bus	4 PCI/3 ISA	UDMA/33
Memory (Mb)	768 Mb registered SDRAM	3 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Performance		Excellent (actually "stunning..." PC Pro)
Comments		Good price

### P6SBU

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	600/400	
Chipset	440BX	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	
Memory (Mb)	1 Gb registered SDRAM	4 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	AIC 7890 U2W+UW+50 pin. RAIDport III
Video		AGP
Performance		Competent

### P6SBS

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Slot 1
Speeds (MHz)	600/400	
Chipset	440BX	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	
Memory (Mb)	1 Gb registered SDRAM	4 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	

**P6SLA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-333	
Chipset	440LX	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	
Memory (Mb)	768 EDO or 384 SDRAM	3 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Performance		Reasonable. 75 MHz bus speed, 6 x multiplier.

**P6SWA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	Intel 810E	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	

**P6SWD**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	Intel 810DC-100	
BIOS	AMI 2 Mb	
Bus	4 PCI/3 ISA	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	

**S2DGR**

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II/Xeon	
Speeds (MHz)	400-500	
Chipset	440GX	
BIOS	AMI 2 Mb	
Bus	4 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy, USB	AIC 7895 Dual UW+50 pin. RAIDport II. UDMA
Video		AGP

**S2DGU**

Item	Description	Notes
Form Factor	ATX	
CPU	Dual Pentium II/Xeon	
Speeds (MHz)	400-500	
Chipset	440GX	
BIOS	AMI 2 Mb	
Bus	5 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
Cache (K)		

Item	Description	Notes
I/O	2 EIDE, floppy, USB	AIC 7890 U2W+UW+50 pin. RAIDport III. UDMA
Video		AGP

### S2DG2

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Xeon	SMP Slot 2
Chipset	Intel 440GX	
BIOS		
Bus	5 PCI/2 ISA	
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR	Adaptec AIC-7896N LVD
Video		AGP 2x
Performance		

### S370SED(A)

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810E	
BIOS		
Bus	3 PCI (6 for SEA)	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

### S370SWD

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810DC-100	
BIOS		
Bus	3 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

### S370SW(M)(T)

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810L	
BIOS		
Bus	3 PCI, AMR	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy, USB, ser, par, joystick, audio	
Video		Embedded AGP
Comments		Better boards for power

## SuperPower

www.superpower.com.tw

## 6XV-133

Item	Description	Notes
Form Factor	AT	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	Via Apollo Pro Plus	
BIOS		
Bus	5 PCI/2 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Comments		Excellent Value

## 6XW

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	Intel 810E	
BIOS		
Bus	5 PCI	
Memory (Mb)	512 Mb	2 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AMR
Comments		Excellent Value

## P2BXA-E

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		8x clock multiplier
Chipset	Intel 440BX	
BIOS		
Bus	5 PCI/2 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Comments		

## SP-586TB

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Socket 7
Bus	4 PCI/3 ISA	
Memory (Mb)		4 72-pin, 2 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	

Jumper	Position	Function
J1,2	1-2	5v DIMMs
	2-3	12v
JP1	None	3.5/1.5x CPU
	1-2	2x



<i>Jumper</i>	<i>Position</i>			<i>Function</i>
	1-2,3-4			2.5x
	3-4			3x
	5-6			4x
JP2-4	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>Bus speed</b>
	1-2	1-2	1-2	50 MHz
	2-3	2-3	1-2	60 MHz
	2-3	2-3	2-3	66 MHz
	2-3	1-2	2-3	73 MHz
JP10	2-3			5v Flash ROM
	1-2			12v
JP16	5-6			2.1v Ext CPU
	1-2			2.8v
	1-2,7-8			2.9v
	1-2,3-4			3.2v
	1-2,3-4,5-6			3.3v
	1-2,3-4,5-6,7-8			3.5v

### SP-A586B

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Super Socket 7
Speeds (MHz)		
Chipset	Ali-V M1542/1543	
BIOS	Award Green	
Bus	3 PCI/2 ISA	
Memory (Mb)	768	3 DIMM sockets
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Performance		Reasonable

<i>Jumper</i>	<i>Position</i>			<i>Function</i>
JB1	None			1.5/3.5x CPU
	1-2			2x
	1-2,3-4			2.5x
	3-4			3x
	1-2,5-6			4x
	1-2,3-4,5-6			4.5x
	3-4,506			5x
	5-6			5.5x
JC1-3	<b>JC1</b>	<b>JC2</b>	<b>JC3</b>	<b>Bus speed</b>
	In	In	In	60 MHz
	Out	In	In	66 MHz
	In	In	Out	75 MHz
	Out	In	Out	83 MHz
	In	Out	Out	95 MHz
	Out	Out	Out	100 MHz
JV1	None			2v CPU Core
	1-2			2.1v
	3-4			2.2v
	1-2,3-4			2.3v
	5-6			2.4v
	1-2,5-6			2.5v
	3-4,5-6			2.6v
	1-2,3-4,5-6			2.7v
	7-8			2.8v
	1-2,7-8			2.9v

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
	3-4,7-8	3v
	1-2,3-4,7-8	3.1v
	5-6,7-8	3.2v
	3-4,5-6,7-8	3.3v
	1-2,3-4,5-6,7-8	3.4v
JV2	In	3.3v
	Out	3.45v
JR1	1-2	5v Flash ROM
	2-3	12v Flash ROM
JBT1	1-2	Normal
	2-3	Clear CMOS

### SP-P2BXA

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	
Memory (Mb)	768	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP
Performance		Below average

### Sye

#### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	5700		

## Taemung/Fentech

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	KBT5A-1 or KBT5A-2		

## Taiwan Mycomp Corp

See TMC

## Taken Corp

www.taken.com.tw

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
2C	PCI 400	AC	PCI 590
9C	PCI 590-2	BC	PCI 597

## Tandon

### MCS

Jumpers	Position	Function
J6A	In	Security disabled
	Out	Security enabled
J6B,C	<b>J6B</b>	<b>Base Memory</b>
	Out	640K
	On	512K
	Off	256K

<i>Jumper</i>	<i>Position</i>		<i>Function</i>	
J10A,B	<b>J10A</b>	<b>J10B</b>	<b>Y5</b>	<b>RAM</b>
Y5	Off	Off	Empty	256K
	Off	Off	Empty	512K
	On	Off	40 MHz	256K
	On	Off	40 MHz	512K
	Off	On	50 MHz	256K
	Off	On	50 MHz	512K

### MCS Pro

<i>Jumper</i>	<i>Position</i>		<i>Function</i>	
JP1A,B	<b>JP1A</b>	<b>JP1B</b>	<b>Base Memory</b>	
	Out	Out	640K	
	Out	In	512K	
	In	Out	256K	
J1C	In		Security disabled	
	Out		Security enabled	
JP2	In		Onboard floppy enabled/disabled automatically	
	Out		Disabled permanently	

### PAC 286/8/10 (Type A)

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	Off	Reserved
2	On	Disable 512-640K RAM
	Off	Enable
3	On	Disable Data Pac 1 ejection
	Off	Enable
4	On	Disable setup access
	Off	Enable
E1	1-2	Onboard diskette is secondary controller
	2-3	Primary controller

### PAC 286/8/10 (Type B)

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	Off	Reserved
2	On	Disable 512-640K RAM
	Off	Enable
3	On	Disable Data Pac 1 ejection
4	On	Disable setup access
	Off	Enable
5-8		Reserved
E1	1-2	Onboard diskette is secondary controller
	2-3	Primary controller

### PAC 286/12

<i>Switch</i>	<i>Position</i>		<i>Function</i>	
1,2	<b>S1</b>	<b>S2</b>	<b>Base</b>	<b>Extended</b>
	Off	Off	640K	384K
	Off	On	512K	512K
	On	Off	256K	384K
	On	On	256K	512K
3	On		Disable security features	
	Off		Enable	
4	Off		Reserved	
E1	Out		Reserved	
E2	1-2		8 MHz 80287	

Switch	Position	Function
	3-4	Reserved
	5-6	10/12 MHz 80287

### PAC 386sx

Switch	Position	Function
1	Off	Reserved
2	On	Disable security features
	Off	Enable
3	Off	Reserved
4	On	Disable 512-640K RAM
	Off	Enable
5-8	Off	Reserved
E1	1-2	32K BIOS Chip
	2-3	64K BIOS Chip
E5	Out	Reserved
E6	In	1 Mb (J20-23 256K)
	In	2 Mb (J20-27 256K)
	Out	2 Mb (J20-21 1 Mb)
	Out	4 Mb (J20-23 1 Mb)
	Out	8 Mb (J20-27 1 Mb)
E7	Out	Reserved
E8	Out	Reserved

### PAC II

Jumper	Position	Function		
J19	In	Clear CMOS		
	Out	Normal		
J22C	In	Onboard video is PS/2 VGA mode		
	Out	Onboard video is AT VGA mode		
J22D	In	Onboard video uses PS/2 VGA timing		
	Out	Onboard video uses standard timing		
J24	In	Term power to SCSI bus		
	Out	Term power from SCSI bus		
J35A,B	<b>J35A</b>	<b>J35B</b>	<b>Base Memory</b>	
	Out	Out	640K	
	Out	In	512K	
	In	Out	256K	
J35C	In	Security disabled		
	Out	Security enabled		
J36	1-2	16K BIOS size		
	2-3	32K BIOS size		
J37	1-2	Enable onboard SCSI		
	2-3	Disable		
J38	1-2	DataPacll/0 normal ejection		
	2-3	Emergency eject		
J39	1-2	DataPacll/1 normal ejection		
	2-3	Emergency eject		
J41 S1-2	Off	Reserved		
J41 S3-5	<b>S3</b>	<b>S4</b>	<b>S5</b>	<b>RME ID</b>
	On	On	On	0
	Off	On	On	1
	On	Off	On	2
	Off	Off	On	3
	On	On	Off	4
Off	On	Off	5	

Jumper	Position			Function
	On	Off	Off	6
	Off	Off	Off	7
J41 S6	In			DataPacll/0 normal ejection
	Out			Locked
J41 S7	In			DataPacll/1 normal ejection
	Out			Locked
J45				RTC test point
J48	1-2			BIOS is standard EPROM
	2-3			BIOS is Flash EPROM

PCA 6/8

Switch	Position	Function
S1-2	Off	Reserved
S3	On	Colour adapter
	Off	Mono
S4-7	Off	Reserved
S8	On	256K chips in Bank 1 (1 Mb)
	Off	64K chips in Bank1 (640K)

PCA 12 (Type A)

Switch	Position		Function	
J6			Reset/LED	
1,2	<b>S1</b>	<b>S2</b>	<b>Base</b>	<b>Extended</b>
	Off	Off	640K	384K
	Off	On	512K	512K
	On	Off	256K	384K
	On	On	256K	512K
3	On		Disable security features	
	Off		Enable	
4	Off		Reserved	
E1	Out		Reserved	
E2	1-2		8 MHz 80287	
	5-6		10/12 MHz 80287	

PCA 12 (Type B)

Switch	Position		Function	
J9			Speaker	
J10			Reset/LED	
J12			IDE LED	
1,2	<b>S1</b>	<b>S2</b>	<b>Base</b>	<b>Extended</b>
	Off	Off	640K	384K
	Off	On	512K	512K
	On	Off	256K	384K
	On	On	256K	512K
3	On		Disable security features	
	Off		Enable	
4	Off		Reserved	
E1	1-2		Reserved	
E2	1-2		8 MHz 80287	
	2-3		10/12 MHz 80287	
E3	1-2		BIOS chip size	

286N (Type A)

Jumper	Position	Function
W2	1-2	Reserved

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
W3	1-2	Enable security features
	2-3	Disable
W4	1-2	Disable onboard floppy
	2-3	Enable
W5	1-2	Disable diskette reduced write current
	2-3	Enable
W9	1-2	12 MHz 802C87
	2-3	6 MHz 80287
W11	1-2	Disable onboard VGA
	2-3	Enable
W12	1-2	Disable IDE LED
	2-3	Enable
W15	1-2	Enable IRQ9
	2-3	Disable
W16	In	Disable IRQ12
	Out	Enable
W17	In	Disable 512-640K
	Out	Enable

### 286N (Type B)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J2		Reserved
J3		Reserved
J4	In	Enable onboard VGA
	Out	Disable
J5		Reserved
J6	In	Lock keyboard
	Out	Normal
J7		Reset
J8	1-2	Enable security features
	2-3	Disable
J9	In	Disable 512-640K
	Out	Enable
J14		Power LED
J15		HD LED
J16		Internal reset

### 386N (Type A)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2	In	Disable 512-640K
	Out	Enable
JP3	In	Disable security features
JP5	In	Disable IRQ12
	Out	Enable
JP6	1-2	Disable onboard floppy
	2-3	Enable
JP7	1-2	Disable onboard IDE
	2-3	Enable
JP8	1-2	Disable diskette reduced write current
	2-3	Enable
JP9	1-2	64K BIOS
	2-3	32K BIOS
JP10	In	Disable IDE LED
	Out	Enable
JP11		Keyswitch/IDE

386N (Type B)

As for 286N (Type B), except J2,3,5 Out.

386N (Type C)

Jumper	Position	Function						
JP1		Speaker						
JP4A	In	Enable 256-640K						
	Out	Disable						
JP4B	In	Disable security features						
	Out	Enable						
JP5A	Out	Reserved						
JP5B	In	Enable LPT bidirectional mode						
JP10		Battery						
JP12-14	<b>JP12</b>	<b>JP13</b>	<b>JP14</b>	<b>Mem</b>	<b>Fixed</b>	<b>Bank 0</b>	<b>Bank 1</b>	<b>Interleave</b>
	1-2	1-2	1-2	512K	512			0
	1-2	1-2	1-2	1 Mb	512		256	2
	2-3	2-3	2-3	1.5 Mb	512	256	256	2
	1-2	1-2	1-2	2.5 Mb	512		1 Mb	0
	2-3	2-3	2-3	4 Mb		1 Mb	1 Mb	2
	2-3	2-3	2-3	10 Mb		1 Mb	4 Mb	0
	2-3	2-3	2-3	16 Mb		4 Mb	4 Mb	2
JP18		HD LED						
JP19		Power LED						

386-16/20

Switch	Position	Function					
1-4	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>Bank1</b>	<b>Bank2</b>	<b>Total RAM</b>
	On	On	On	On	256x9		1 Mb
	Off	On	On	On	256x9		1 Mb
	On	Off	On	On	256x9		1 Mb
	Off	Off	On	On	256x9		1 Mb
	On	On	Off	On	256x9	256x9	2 Mb
	Off	On	Off	On	256x9	256x9	2 Mb
	On	Off	Off	On	256x9	256x9	2 Mb
	Off	Off	Off	On	256x9	256x9	2 Mb
	On	On	Off	Off	1Mbx9		4 Mb
	Off	On	On	Off	1Mbx9		4 Mb
	On	Off	On	Off	1Mbx9		4 Mb
	Off	Off	On	Off	1Mbx9		4 Mb
	On	Off	Off	Off	1Mbx9	256x9	5 Mb
Off	Off	Off	Off	1Mbx9	256x9	5 Mb	
On	On	Off	Off	1Mbx9	1Mbx9	8 Mb	
Off	On	Off	Off	1Mbx9	1Mbx9	8 Mb	
5						EGA BIOS Disabled	
6	Off					80387	
	On					80287	
7	Off					Boot high speed	
	On					Normal speed	
8	Off					Mono display	
	On					Colour	

386-25/33

Jumper	Position	Function	
W7,8	<b>W7</b>	<b>W8</b>	<b>80387 clock</b>
	1-2	In	Asynchronous
	2-3*	Out*	Synchronous



<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
W12,13	<b>W12</b>	<b>W13</b>	<b>Cache mode</b>
	In	1-2	Direct mapped
	Out*	2-3*	2-way associative
W22,23			Reserved

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	Off	Reserved
2	Off	809387 not installed
	On	Installed
3	Off	Reserved
4	Off	Reserved
5	Off	Reserved
6	Off	Enable security features
	On	Disable
7	Off	Reserved
8	Off	8.25 MHz bus speed
	On	11 MHz bus speed

### 386/33 (Type E)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Enable security
	2-3	Disable
JP2	1-2	LPT1 uses IRQ7
	2-3	LPT2 uses IRQ5
JP3	Out	Reserved
JP4	1-2	Disable I/O peripherals
	2-3	Enable
JP5	1-2	128K cache
	2-3	32/64K cache
J3		COM1
J4		COM2
J8		Speaker
J9		Speed LED
J10		Reset
J11		IDE

### Sonia II PCX

BIOS supports up to 4 floppies, but onboard controller only supports 2.

<i>Switch</i>	<i>Position</i>	<i>Function</i>		
S1	On			Disable boot on drive A
	Off			Enable
S2	On			Maths copro installed
	Off			Not installed
S3,4,JP1	<b>S3</b>	<b>S4</b>	<b>JP1</b>	<b>Total RAM</b>
	On	Off	2-3	128K
	Off	On	2-3	192K
	Off	Off	2-3*	256K
	On	Off	1-2	128K
	Off	On	1-2	384K
	Off	Off	1-2	640K
S5,6	<b>S5</b>	<b>S6</b>		<b>Display</b>
	Off	Off		Mono
	Off	On		Colour 40x25

Switch	Position		Function
	On	Off	Colour 80x25
	On	On	None
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies installed</b>
	Off	Off	1
	Off	On	2
	On	Off	3
	On	Off	4
P2	1-2		Disable LPT1

*Sonia III PCX*

Jumper	Position		Function
JP1	In		64K chips in Bank 1 (256K)
	Out		256K chips in Bank 1 (640K)
JP3,4	<b>JP3</b>	<b>JP4</b>	<b>Display Type</b>
	B	B	Mono 80 column
	B	A	Colour 40 column
	A	B	Colour 80 column
	A	A	None
JP5	A		Enable LPT1
	B		Disable

*SL (Type A)*

Jumper	Position	Function
JP1	Out	16K ROM BIOS
	In	32K ROM BIOS
JP3		Reserved
JP4		Reserved
JP5	Out	Enable onboard floppy
	In	Disable

*SW1*

Jumper	Position	Function
1	Off	Enable security
	On	Disable security
2	Off	SIMMs not installed
	On	SIMMs installed

*SW2*

Switch	Position	Function
1	Off	Disable COM1
	On	Enable
2	Off	Disable COM2
3	Off	Disable LPT1
	On	Enable
4	Off	DRAM 1 wait state
	On	DRAM 0 wait state

*SL (Type B)*

Jumper	Position	Function
E1	2-3	Reserved
E2	1-2	IDE IRQ14 enabled
	2-3	Disabled
E3	2-3	Reserved
E4	2-3	Reserved
E5,6	1-2	IDE secondary address
	2-3	IDE primary address
	Out	Disable IDE (also E2 to 2-3)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E7	2-3	Reserved
E8	1-2	RAM parity checking enabled
	2-3	Disabled

## SW1

Reset switch

## SW2

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
1,2	<b>1</b>	<b>2</b>	
	Off	Off	<b>Memory</b>
	Off	On	640K
	On	On	512K
3	Off	On	256K
	On		Enable security
	On		Disable

## SL (Type C)

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
E1	2-3	Reserved
E2	1-2	IDE IRQ14 enabled
	Out	Disabled
E3	2-3	Reserved
E4	2-3	Reserved
E5	1-2	80287 clock divided by 3
	2-3	80287 clock used directly
E6,7	1-2	IDE secondary address
	2-3	IDE primary address
	Out	Disable IDE (also E2 to Out)
E8	1-2	8 MHz clock to 80287
	5-6	10/12 MHz clock to 80287
E9	2-3	Reserved
E10	1-2	RAM parity checking enabled
	2-3	Disabled
E11	2-3	Reserved

## SW1

Reset switch

## SW2

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
1,2	<b>1</b>	<b>2</b>	
	Off	Off	<b>Memory</b>
	Off	On	640K
	On	On	512K
3	Off	On	256K
	On		Enable security

## Tower 386

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	Off	Reserved
S2	Off	Coprocessor not installed
	On	Coprocessor installed
S3	Off	I/O bus speed 8.25 MHz
	On	I/O bus speed 11 MHz
S4	Off	Reserved
S5	Off	Reserved

Switch	Position	Function
S6	Off	Security enabled
	On	Disabled
S7	On	Normal operation
S8	Off	Reserved

Jumper	Position	Function	
W9	Off	Non-cacheable region D00000-DFFFF	
	On	Non-cacheable region E00000-FFFFFF	
W10	Off	Base memory 640K	
	On	Base memory 512K (BIOS >3.7 only)	
W14,15	<b>W14</b>	<b>W15</b>	<b>Cache Mode</b>
	On	1-2	Direct mapped
	Off	2-3	2-way set associative
W30		Reserved	
W98	1-2	256K SIMMs	
	2-3	1 Mb SIMMs	

### Tower 486

Switch	Position	Function
S1,2	<b>S1</b>	<b>Memory</b>
	Off	640K
	Off	512K
	On	256K
S3	Off	Security enabled
	On	Disabled
S4		Reserved
J7		IDE LED
J8		Battery
J9		Speaker
J10		Reset & LEDs

### Tatung

[www.tatungusa.com](http://www.tatungusa.com)

### TCS 4000

Jumper	Position	Function
J1	In	For readjusting WDC 10 MHz VCO frequency after repairs. This is removed when adjusting C38 and replaced afterwards.
J2	1-2	Onboard WDC select disabled
	2-3	Enabled
J3	1-2	Onboard FDC select disabled
	2-3	Enabled
J4		HDD data cable
J5		HDD control cable
J6		External battery
J7	1-2	System clock mode
	2-3	DMA clock mode
J8		Floppy cable
J9		Keyboard
J12		Reset/keylock
J13		HDD LED, Power LED, speaker
J18	1-2	EPROM select mode
	2-3	ROM select mode
J19	1-2	27128 ROM
	2-3	27256 ROM

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J20		Special EGA card on main board
J21	1-2	80287 at 10 MHz
	2-3	80287 at 4.77 MHz

**SW1**

<i>Switch</i>	<i>Position</i>				<i>Function</i>	
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>Drive A</b>	<b>Drive B</b>
	On	On			1.2 Mb	
	On	Off			360K	
	On	On	On	On	1.2 Mb	1.2 Mb
	On	On	Off	Off	1.2 Mb	360K
	Off	Off	On	On	360K	1.2 Mb
	Off	Off	Off	Off	360K	360K
S5-8						Reserved

**SW2**

<i>Switch</i>	<i>Position</i>	<i>Function</i>
1	On	Colour display
	Off	Mono
2	On	640K onboard memory
	Off	512K or 1 Mb onboard memory
3	On	Enable COM1
	Off	Disable
4	On	Enable COM2
	Off	Disable
5	On	Enable LPT1
	Off	Disable
6	On	System clock speed 6(8) MHz
	Off	10 MHz

**TCS 7000**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>			
J1		Reset			
J2	1-2	System board memory 1 Mb			
	2-3	512/640K			
J7	1-2	Colour display			
	2-3	Mono			
J10	1-2	0 wait state			
	2-3	1 wait state			
J12	1-2	Low system clock			
	2-3	High system clock			
S1-4	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>ROM select</b>
	On	On	Off	Off	128K
	Off	Off	On	On	256K

**TC Computers**

Rebadges Biostars.

**Tekram**

[www.tekram.com](http://www.tekram.com)

**Award BIOS ID**

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	P6L40-A4	9C	P5V30-B4 rev 1/P5T30B4

*P5M4-M*

Item	Description	Notes
Form Factor	Micro ATX	
CPU	Pentium/K6	Super Socket 7
Cache	512 Kb	
Chipset	Via MVP4	
BIOS		
Bus	4 PCI/1 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	

*P6B40-A4*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	
Memory (Mb)	1 Gb	4 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP 2x
Performance		Reasonable

*P6BX-A*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)		
Chipset	440BX	
BIOS		
Bus	5 PCI/2 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets
Cache (K)		
I/O	2S, 1P, EIDE, floppy, 2 USB, 2 PS/2	
Video		AGP 2x
Performance		

**TMC**

Taiwan Mycomp Company. [www.mycomp-tmc.com](http://www.mycomp-tmc.com)

*Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	PCI58PL	AC-00	PCI54ST
1-00	PCI48PG/PG4/PAT48PG	CC	PCI541T
9C	PCI541T/P55CIT/PCI54SP	CC-00	PCI54ST
9C	A15TH/VP	DC	PCI541T
AC	PCI541T		

### AI5VG+

Item	Description	Notes
Form Factor	Baby AT	
CPU	Pentium/K6 etc	Super Socket 7
Speeds (MHz)		
Chipset	VIA MVP3	
BIOS	Award 4.51PG	
Bus	4 PCI/2 ISA	66-100
Memory (Mb)	768	
Cache (K)	1 Mb	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video	AGP	

### CA64

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/733	FSB 133
Chipset	VIA Apollo Pro 133A	
BIOS	Award	
Bus	5 PCI/1 ISA/1 AMR	UDMA/66
Memory (Mb)	1.5 Gb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR, Intel 82558 LAN	
Video		AGP Pro 4x
Audio	VIA VT611A	
Comments		

### CS65

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	933/733	FSB 133
Chipset	Intel 815E	
BIOS	Award	
Bus	5 PCI/1 AMR	UDMA/100
Memory (Mb)	512 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR, Intel 82558 LAN	
Video	Intel 815 GMCH	AGP 4x
Audio	Intel ALLC200	
Comments		

### MI7WBM

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810	
BIOS		
Bus	3 PCI, 1 AMR	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy, ser, par, PS/2, joystick, audio	
Comments		

**PCI48PG4**

Item	Description	Notes
CPU	486	P24D
Chipset	Opti	
BIOS	Award or AMI WinBIOS	
Bus	2 PCI/2 ISA/2 VESA	1 PCI/ISA shared.
Memory (Mb)	128	4 slots – all must be used.
Cache (K)	256	
I/O	2S, 1P, Floppy	Opti PCI IDE controller (82C621), SMC for serial/parallel/floppy.

**PCI541T**

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	90	
Chipset	Triton	
BIOS	Award	
Bus		PnP 1.0a compliant. Use triton.exe
Memory (Mb)		4 72-pin slots
I/O	2S, 1P, Game, IDE	

**PCI54PV3**

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	90	
Chipset	Opti Viper	
BIOS	Award	
Bus	3 PCI/4 ISA	
Memory (Mb)		4 72-pin SIMMs
Cache (K)		
I/O	2S, 1P, Floppy, IDE	
Performance		Slower than PCI541T

**PCI58PL**

Item	Description	Notes
Form Factor		
CPU	Pentium	
Speeds (MHz)	60/66	
Chipset	Opti	82C822, 82C571, 82C572
BIOS	Award	
Bus	3 PCI/2 ISA/1 VL	1 shared PCI/VL. PCIs busmaster, as does 1 VL.
Memory (Mb)	192	Parity only. 4 30-pin sockets (Bank 0) and 3 72-pin (0, 1 and 2).
Cache (K)	512	256 standard
I/O	None	

**PET 48PN**

486 EISA + VL Bus

Switch	Position				Function
RNA/B/C/D	<b>A1/2</b>	<b>B1/2</b>	<b>C1/2</b>	<b>D1/2</b>	<b>Cache Size</b>
	Closed	Open	Open	Open	64K
	Open	Closed	Open	Open	128K
	Open	Open	Closed	Open	256K
RNA/B/C	<b>A3</b>	<b>B3</b>	<b>C3</b>		<b>CPU</b>
				Closed	Open



Switch	Position				Function
	Open	Closed	Open		ODP486SX
	Closed	Open	Open		486DX
	Open	Closed	Open		487SX
	Open	Open	Closed		486SX
RNE1-5	On				30 pin SIMMs first
RNF1-5	On				72-pin SIMMs first
JP2-4	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>		<b>CPU</b>
	1-2	1-2	2-3		20 MHz
	1-2	1-2	2-3		25 MHz
	1-2	2-3	2-3		33 MHz
	1-2	1-2	2-3		40 MHz (internal)
	1-2	1-2	2-3		50 MHz (internal)
	2-3	2-3	1-2		50 MHz
	1-2	2-3	2-3		66 MHz (internal)
JP5	Open				Mono Display
	Closed				Colour Display
JP7	Open				Channel Ready Select Normal
	Closed				Channel Ready Select EXRDY signal generated
JP8 & 9	Open				33 MHz VL bus speed
	Closed				50 MHz
W7-10	<b>W7</b>	<b>W8</b>	<b>W9</b>	<b>W10</b>	<b>Clock Source</b>
	Open	Closed	Open	Open	20 MHz
	Open	Open	Closed	Open	25 MHz
	Closed	Open	Open	Open	33 MHz
	Open	Open	Closed	Open	50 MHz
	Open	Open	Open	Closed	66 MHz
J4					IDE LED
J5	1-4				Speaker
	7-17				Turbo Switch
	9-19				Reset
	10-20				IDE LED

### TD6NB SCSI

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Chipset	82440BX	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	66-100
Memory (Mb)	1024	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video	AGP	

### TIVG

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium MMX	6x86/L/MX, K5, K6
Speeds (MHz)	90-233	
Chipset	VIA VP3	
Bus	4 PCI/3 ISA/1AGP	
Memory (Mb)		FPM, EDO, SDRAM. 4 72-pin & 3 DIMM sockets.
Cache (K)	512	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	Winbond W83877. UDMA
Video	AGP	

Switch	Position				Function
SW1	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU host bus speed</b>
1-4	On	Off	Off	Off	60 MHz
	Off	Off	Off	Off	66 MHz
SW1	<b>5</b>	<b>6</b>	<b>7</b>		<b>CPU clock multiplier</b>
5-7	Off	Off	Off		1.5x
	On	Off	Off		2x
	On	On	Off		2.5x
	Off	On	Off		3x
	Off	Off	Off		3.5x
SW2	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>CPU voltage (IO/Core)</b>
1-4	On	On	On	On	3.3/3.5
	Off	Off	On	On	3.3/3.2
	On	On	Off	On	3.3/3.1
	Off	On	Off	On	3.3/3
	On	Off	Off	On	3.3/2.9
	Off	Off	Off	On	3.3/2.8
	On	On	On	Off	3.3/2.7
	Off	On	On	Off	3.3/2.6
	On	Off	On	Off	3.3/2.5
	On	Off	Off	Off	3.3/2.1
	On	On	On	On	Single voltage CPU
JP8	1-2*				Normal
	2-3				Clear CMOS
J13	1-4				Speaker
	11-15				Power LED and keylock
	7-17				ATX power on switch
	8-18				Turbo LED
	9-19				Reset
	10-20				HD LED

**T15VG+**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6 etc	Super Socket 7
Speeds (MHz)		
Chipset	VIA MVP3	
BIOS	Award 4.51PG	
Bus	5 PCI/2 ISA	66-133
Memory (Mb)	384	
Cache (K)	1 Mb	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video	AGP	
Performance		Fast

**T15VGA**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Super Socket 7
Cache	2 Mb	
Chipset	Via MVP3	Supports UDMA 66
BIOS	Award	
Bus	6 PCI	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x
Performance		Highly rated (PC Pro magazine)
Comments		Sound on board

**T15VGF**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6 etc	Super Socket 7
Speeds (MHz)		
Chipset	VIA MVP3	
BIOS	Award 4.51PG	
Bus	6 PCI	66-133 MHz
Memory (Mb)	384	SDRAM only. 3 DIMM sockets
Cache (K)	1 Mb	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	DMA/33
Video	AGP	

**T16NB(F)+**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	
Chipset	82440BX	
BIOS	Award 4.51PG	
Bus	4 PCI/3 ISA	4/1 for BF+ 66-133
Memory (Mb)	768	64 Mb on board for B+
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video	AGP	

**T16VG4**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	
Speeds (MHz)		133 FSB
Chipset	Via Apollo Pro Plus	
BIOS	Award	
Bus	5 PCI/1 ISA	
Memory (Mb)	768	3 DIMM sockets. 64 Mb on board
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video		AGP 2x (4x some boards)

**T17NBA**

Item	Description	Notes
Form Factor	ATX	
CPU		Socket 370
Chipset	440BX/ZX	
BIOS	Award 4.51PG	
Bus	4 PCI/2 ISA	
Memory (Mb)	768	
Cache (K)		
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video	AGP	

**TK7AG**

Item	Description	Notes
Form Factor	ATX	
CPU	Athlon	Slot A
Speeds (MHz)		
Chipset	AMD 750	
BIOS		

Item	Description	Notes
Bus	4 PCI/3 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy	
Video		AGP
Performance		
Comments		Biostar M7MKA is a better choice

## Tomatobards

See Zida

## Top Gun

### Pentium MMX

Jumper	Position	Function
JP1	1-2	Normal
	2-3	Clear CMOS
JP3 A&B	1-2	Dual voltage CPU (P55C)
	2-3	Single voltage CPU (P54C)
JP4 A&B	1-2	5v DIMM
	2-3	3.3v DIMM
JP5 A&B	<b>A</b>	<b>B</b>
	1-2	1-2
	2-3	1-2
	2-3	2-3
	1-2	2-3
JP6	Open	2.5v CPU Core
	A	3.5v
	B	3.3v
	C	3.2v
	D	2.9v
	E	2.8v
JP7 A&B	A,B	60 MHz host clock
	B	66 MHz host clock
	A	75 MHz host clock
	Open	83 MHz host clock

## Toshiba

www.toshiba.com

### T1200

Jumper	Position	Function
PJ1		Keyboard
PJ3	1-2	Default
	2-3	Adjustment when modem card shipped
PJ4	1-2	Default
	2-3	Adjustment when modem card shipped
PJ5	1-2	Enable DTR
	2-3	Sets DTR always True
PJ6	1-2	Determine if carrier from distant modem
	2-3	Set carrier detect always True
PJ7		LED connector
PJ8		Modem connector
PJ9		Power supply (HDC)
PL11		LCD

<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
PJ12		Power supply 5v	
PJ13		FDD A	
PJ14		FDD B	
PJ15		I/O	
PJ16		Power supply (signal)	
PJ17	1-2	Twin floppies	
	Out	Floppy/HD	
PJ18,19	<b>PJ18</b>	<b>PJ19</b>	<b>ICE</b>
	1-2	Out	Normal
	2-3	1-2	Connected to copro socket
PJ20	1-2	Copro not installed	
	Out	Installed	
PJ21	1-2	Normal Font	
	Out	North European (Denmark)	

### T2100

<i>Switch</i>	<i>Position</i>	<i>Function</i>		
S1	Off	IRQ4 to Toshiba card slot		
	On	IRQ4 to IBM-compatible card slots		
S2	Off	IRQ3 to Toshiba card slot		
	On	IRQ3 to IBM-compatible card slots		
S3		Reserved		
S4	Off	Enable internal display controller		
	On	Disable		
S5	Off	Unidirectional printer port		
	On	Bidirectional		
S6,7	<b>S6</b>	<b>S7</b>	<b>Serial 1</b>	<b>Serial 2</b>
	Off	Off	COM1	COM2
	Off	On	COM1	COM3
	On	Off	COM2	COM1
	On	On	COM2	COM3
S8	Off	External FDD is B		
	On	External FDD is A		
PJ1		Keyboard		
PJ3		Speaker		
PJ4		Expansion memory		
PJ6		Modem		
PJ7		Plasma display		
PJ8		FD2		
PJ9		FD1		
PJ10		Power supply		
PJ11		Power supply		
PJ12		HD		
PL13		Colour CRT		
PJ14		Composite video		
PJ15		External FD/printer		
PJ16		RS 232		

### T3200

<i>Switch</i>	<i>Position</i>	<i>Function</i>
S1	On	Auto switch display mode
	Off	IBM EGA
S2	On	Bidirectional LPT
	Off	Unidirectional
S3	On	Comms port is CH2

Switch	Position	Function			
	Off	Comms port is CH1			
S4	On	Double font in plasma for text			
	Off	Single font			
S5	On	Disable CRTC for Ext CRTC			
	Off	Enable internal CRTC (normal)			
S6	On	North European font on display			
	Off	Other fonts			
S7-10	<b>S7</b>	<b>S8</b>	<b>S9</b>	<b>S10</b>	<b>Monitor</b>
	Off	Off	Off	Off	Mono
	On	Off	Off	On	RGB 40 col
	Off	Off	Off	On	RGB 80 col
	On	On	On	Off	Enhanced RGB 200 line
	Off	On	On	Off	Enhanced RGB 300 line
PJ2	1-2	Reserved			
	3-4	1.6 Mb floppy (Out) 2 Mb (In)			
	5-6	1 floppy (Out) 2 floppies (In)			
	7-8	Double density floppy (Out) HD (In)			
	9-10	640K (Out) 512K (In)			
	11-12	3Mb memory card exp/ext (Out) Expanded (In)			
PJ3	Reserved				
PJ4	1-2 In	MFM Method			
	3-4 Out				
PJ5	1-2	10 ns HD delay			
	3-4	15 ns			
	5-6	20 ns			
	7-8	25 ns			
	9-10	30 ns			

**T5100**

Jumper	Position	Function
PJ1	1-2	Brightness connected to PDP board
	2-3	Not connected
PJ2	1-2	Contrast connected to PDP board
	2-3	Not connected
PJ3	1-2	3 level grey scale
	2-3	4 level
PJ4	1-2	16H (horizontal) mode
	2-3	1H (horizontal) mode
PJ5	Power supply	
PJ6	FDD	
PJ7	AGS interface	
PJ8	AGS interface	
PJ9	HD	
PJ13	External keyboard	
PJ14	HD power	
PJ15	Fan	
PJ16	Speaker	
PJ17	LED board connector	

Switch	Position	Function
S1	On	Disable extended memory (above 1 Mb)
	Off	Enable
S2	On	512K base memory
	Off	640K base memory
S3	On	Disable internal CRT on AGS board
	Off	Enable
S4	On	Printer port to input

Switch	Position	Function
	Off	Output
S5	On	AGS board supports mono
	Off	Colour
S6	On	Internal RS232 secondary, external to primary
	Off	Internal RS232 primary, external to secondary

### T8500

As for T2100, except:

Switch	Position	Function
PJ1		Expansion memory
PJ2		Lithium battery
PJ3		T3100 bus
PJ4		Motherboard
PJ5		FD
PJ8		Keyboard
PJ9		HD
PJ10		Internal SCSI
PJ15		Connector board I/F connector 1
PJ16		Connector board I/F connector 2
NMI		Non Maskable Interrupt

### Totem

[www.totem.com.tw](http://www.totem.com.tw)

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C-00	TM 586IV v1.3	AC	TM 586-IP2
9	TM 486SPS	BC-00	TM 586IV2A
9C	TM 586-IP2/486SPS	DC-00	TM 586IV2 v3

### Vision 1

As for DC 286

### WS 286

As for DC 286

### WS 386

As for DC 286, except no J6.

### Transcend

[www.transcend.nl](http://www.transcend.nl)

### TS-AVD1

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1

Item	Description	Notes
Speeds (MHz)		133 FSB
Chipset	Via Apollo Pro Plus	
BIOS	Award	
Bus	5 PCI/2 ISA	
Memory (Mb)	768	3 DIMM sockets
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video		AGP 2x (4x some boards)

**TS-AWE1**

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III	Slot 1
Speeds (MHz)		100 FSB
Chipset	Intel 810E	
BIOS	Award	
Bus	5 PCI/1 AMR	
Memory (Mb)	768	3 DIMM sockets
I/O	2S, 1P, floppy, 2 EIDE, IRDA, joystick, audio	UDMA

**Trigem**

(800) 766 4377

**Award BIOS ID**

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0	486SQR		

**Tulip**

**AT 386/25**

Jumper	Position	Function
J7	1-2	27256 EPROM
	2-3	27128 EPROM
J9	1-3	Reserved
	2-4	
J16	1-2	Colour display
	2-3	Mono
	Out	Selects mono mode
J19		Reserved
J20	In	Enable floppy
	Out	Disable

**AT 386sx**

Jumper	Position	Function
J5	1-2	Colour display CGA or TEVA-2)
	2-3	Mono
J9	1-2	27256 EPROM
	2-3	27128 EPROM
J17	1-2	Enable floppy
	2-3	Disable

Installation of VGA card does not require J5 to be set



## AT Compact 1

### Processor board

<i>Jumper</i>	<i>Position</i>				<i>Function</i>	
J287	<b>J287</b>	<b>JXD</b>	<b>JAP10</b>	<b>J8/10</b>	<b>CPU</b>	<b>Copro</b>
JXD	1-2	Out	1-2	1-2	8 MHz	5.33 MHz
JAP10	2-3	Out	2-3	1-2	8 MHz	8 MHz
J8/10	1-2	1-2	1-2	2-3	10 MHz	6.66 MHz
	2-3	1-2	2-3	2-3	10 MHz	10 MHz
S1,2	<b>S1</b>	<b>S2</b>			<b>Total RAM</b>	
	2-3	2-3			128K	
	2-3	1-2			256K	
	1-2	2-3			640K	
	1-2	1-2			1 Mb (not used)	
S3	All out				Mono display	
	1-2				Mono display	
	2-3				Colour	
S4	1-2				128K EPROM	
	2-3				256K EPROM	
JLM	1-2 Out				New revision memory expansion card (2.64 MB)	
	1-2 In				Old revision (640K)	
EM	In				Early memory timing mode	
	Out				Non-early	
JRL	1-2				Short RAS 160	
	2-3				Reserved	

## AT Compact 2

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J?	1-2	Low fan speed
	2-3	High
J18	1-2	Mouse IRQ3
	3-4	Mouse IRQ4
	5-6	Mouse IRQ5
	7-8	COM2 IRQ 3
	9-10	COM1 IRQ4
	11-12	LPT2 IRQ5
	13-14	LPT1 IRQ7
	15-16	Enable COM2
	17-18	Enable COM1
	19-20	Disable serial port
	21-22	Enable LPT2
	23-24	Enable LPT1
	25-26	Disable parallel port

## Compact 3

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J11	1-2	2 x 32K ROM (27256)
	2-3	2 x 16K ROM (27128)
J15	1-2	Mono display
	2-3	Colour (CGA or TEVA-2)

## DC 286

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J5	Out	Normal batteries
	In	Rechargeables

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J6		LED, speaker & battery
J15	1-2	LPT1 unidirectional
	2-3	LPT1 bidirectional

**DT 286**

As for DC 286

**DT 386**

As for DC 286, except J17 is network access header

**PC Compact 2**

**L2.1**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J8	All out	Mono
	3-4	40 col colour
	1-2	80 col colour
	All in	EGA
J10	1-2	Serial port IRQ4
	3-4	IRQ3
J12	1-2	IRQ2 for RTC
	3-4	IRQ3
	5-6	IRQ4
	All out	None
J13	1-2	IRQ2 for mouse port
	3-4	IRQ3
	5-6	IRQ4
	All out	None
J14	3-4	Enable LPT1
	5-6	Enable LPT2
	7-8	Enable COM1
	9-10	Enable COM2

**L2.2-L2.5**

As for 2.1, except:

<i>Switch</i>	<i>Position</i>			<i>Function</i>
SI,SE	<b>SI 1-2</b>	<b>SI 3-4</b>	<b>SE 1-2</b>	
	In	In	Out	Piggy back board installed
	Out	Out	In	FGL chip installed

**L3**

As for L2.2-2.5

**L5 & L6**

As for 2.1, except:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J22	2-3	27128 EPROM
	1-2	27256 EPROM

**L7**

As for L5 & L6, except:

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JMEG	1-2	4C512 DRAMs
	2-3	4C1024 DRAMs (JLOHI must be set either position)

Jumper	Position	Function
JLOHI	1-2	Low type 4C512 DRAMs
	2-3	High type

### *SX Compact 2*

Jumper	Position	Function
J14	1-2	27256 EPROM
	2-3	27128 EPROM
J17	1-2	Mono display
	2-3	Colour display
	All out	Selects mono mode
J18	1-2	Mouse IRQ3
	3-4	Mouse IRQ4
	5-6	Mouse IRQ5
	7-8	COM2 IRQ 3
	9-10	COM1 IRQ4
	11-12	LPT2 IRQ5
	13-14	LPT1 IRQ7
	15-16	Enable COM2
	17-18	Enable COM1
	19-20	Disable serial port
	21-22	Enable LPT2
	23-24	Enable LPT1
	25-26	Disable parallel port
	27-28	Disable onboard HD
29-30	Enable onboard HD	
31-32	Disable floppy	
33-34	Enable floppy	

### *TR 386/25*

As for AT 386/25

### *TR 386sx*

As for AT 386sx

### *Twinhead*

### *Tyan*

[www.tyan.com](http://www.tyan.com)

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C-00	Tempest II S1462	JC	Titan Pro 1668ATX
9C	Tomcat	JC	Titan III S11468/1466
9C-00	Trinity (S1592)	JC	S1563D (Tomcat III Dual)
AC-00	S1570/1590	JC-00	S1470 Titan VXAT
GC	S1562S	KC	S1468 (OEM Newtec, Korea)

*S1590 Trinity AT*

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	Super Socket 7
Speeds (MHz)		
Chipset	VIA Apollo MVP3	
BIOS		
Bus	4 PCI/4 ISA	
Memory (Mb)		3 DIMM sockets, 2 SIMMs
Cache (K)	1 Mb	
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video		AGP
Audio		
Performance		Excellent

*S1598 Trinity*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium/K6	Super Socket 7
Cache	2 Mb	
Chipset	Via MVP3	
BIOS		
Bus	5 PCI/2 ISA	UDMA/33
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy USB, IR	
Video		AGP 2x

*S1810 Tomcat*

Item	Description	Notes
Form Factor	Micro-ATX	
CPU	Celeron	Socket 370
Speeds (MHz)		
Chipset	Intel 810	
BIOS		
Bus	4 PCI	UDMA/66
Memory (Mb)	512 Mb	2 DIMM sockets
I/O	2 EIDE, floppy	

*S1837*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	SMP Slot 1
Chipset	Intel 440BX	
BIOS		
Bus	6 PCI/1 ISA	UDMA/33
Memory (Mb)	1 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR, Intel 82559 LAN	Adaptec AIC-7896
Video		AGP 2x
Audio	ESS ES1373	
Comments		

*S1846*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	
Speeds (MHz)	550	
Chipset	440 BX	

Item	Description	Notes
BIOS	AMI WinBIOS	
Bus	5 PCI/2 ISA	
Memory (Mb)	768	3 DIMM sockets.
Cache (K)		
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video		AGP
Performance		Average

### S1854

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1 & Socket 370
Speeds (MHz)	550	
Chipset	Vis Apollo Pro 133A	
Bus	6 PCI/1 ISA	
Memory (Mb)	768	3 DIMM sockets.
I/O	2S, 1P, floppy, 2 EIDE, IRDA	UDMA
Video		AGP 4x supported
Performance		Average

### S1952DLU Thunder X

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II/Xeon	SMP Slot 2
Chipset	Intel 440GX	
Bus	6 PCI/1 ISA	UDMA/33
Memory (Mb)	2 Gb	4 DIMM sockets
I/O	2 EIDE, floppy USB, IR	Adaptec AIC-7896N LVD
Video		AGP 2x

### Tiger ATX

#### S1692S

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium II	Slot 1
Speeds (MHz)	233-333	
Bus	5 PCI/2 ISA	
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets. 3.3v.
Video		AGP

### Thunder 2 ATX

#### S1696DLUA

Item	Description	Notes
Form Factor	ATX	
CPU	2 Pentium II	Slot 1
Speeds (MHz)	333	
Bus	4 PCI/2 ISA	1 each shared, 1 with RAID port extension
Memory (Mb)	512 SDRAM 1 Gb EDO	4 DIMM sockets
Video		AGP
Audio	Yamaha OPL4-ML	1 Mb wavetable ROM
Performance		Average. 66 MHz bus speed.

*Tomcat I*

Item	Description	Notes
CPU	Pentium	
Speeds (MHz)	200	
Chipset	430HX	
BIOS	Award or AMI	
Bus	4 PCI/5 ISA	1 each shared
Memory (Mb)	512	Parity or ECC FPM or EDO in 8 slots.
Cache (K)	512	Pipelined burst
I/O	2S, 1P, Floppy, IDE, USB	

*Tempest II*

Item	Description	Notes
CPU	2 Pentium	
Speeds (MHz)	166	
Chipset	Neptune	
Bus	4 PCI/5 EISA	
Memory (Mb)	512	FPM only in 8 slots.
Cache (K)	512	256 standard. Asynchronous.
I/O	No idea	

*Titan III*

Item	Description	Notes
CPU	Pentium/Cyrix 6x86	
Speeds (MHz)	166	
Chipset	430FX	
BIOS	Award or AMI	
Bus	4 PCI/4 ISA	None shared
Memory (Mb)	128	3.3 or 5v FPM/EDO in 4 sockets
Cache (K)	512	Pipelined Burst. 256 standard.
I/O	IDE only	

*Titan Pro*

Item	Description	Notes
CPU	2 Pentium Pro	
Speeds (MHz)	200	
Chipset	440FX (Natoma)	
Bus	5 PCI/3 ISA	1 each shared
Memory (Mb)	1 Gb	Parity or ECC, EDO/BEDO/FPM
I/O	2S, 1P, Floppy, IDE, USB	

*Trinity 400*

Item	Description	Notes
Form Factor	ATX	
CPU	Pentium III/Celeron	Socket 370
Speeds	1000/700	FSB 133
Chipset	VIA Apollo Pro 133A	
BIOS	Award	
Bus	6 PCI/1 ISA	UDMA/66
Memory (Mb)	768 Mb	3 DIMM sockets
I/O	2 EIDE, floppy, USB, IR	
Video		AGP 4x



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UHC

Umax

UMC

United Microelectronics

*UMC88*

Unicom

Unisys

*PCI 3xx3*

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
J5	In		Pipeline mode enabled
J8	In		Colour display
	Out		Mono
J15	1-2	Out	SCSI IRQ9
	3-4	Out	SCSI IRQ10
	5-6	In	SCSI IRQ11
	7-8	Out	Primary host adapter address
	9-10	In	DMA DRQ0
	11-12	Out	DMA DRQ5
	13-14	Out	DMA DRQ6
	15-16	Out	DMA DRQ7
	17-18	In	DMA DACK0
	19-20	Out	DMA DACK5
	21-22	Out	DMA DACK6
	23-24	Out	DMA DACK7
	25-26	In	SCSI enabled
		Out	SCSI disabled

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
J17	In	Parallel port is LPT1
J18	Out	Parallel port is LPT2
J21	In	VGA controller enabled
	Out	Disabled
JP2	In	Intel coprocessor
	Out	Others

**MPI 4xx3**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP2	1-3,2-4,5-7,6-8 In	3.5" diskette connector goes to A
	1-2,3-4,5-6,7-8 Out	Alternate drive (5.25) connector goes to A
JP4,5	JP4 Out	Enable HD controller
	JP5 Out	Disable
	In	In
JP6	In	Colour display
	Out	Mono
JP7	Out	Disable CPU option
	In	Enable
JP8	1-2 In	Enable LPT1
	2-3 Out	Enable LPT2
JP9	1-2 Out	SCSI IRQ15
	3-4 In	SCSI IRQ11
	5-6 Out	SCSI IRQ10
	7-8 Out	SCSI IRQ9
	9-10 Out	SCSI primary address (0340 or 0140)
	11-12 In	13-14 Out
	Out	In
		Enable SCSI
		Disable
JP10	1-2 Out	SCSI DMA DRQ7
	3-4 Out	SCSI DMA DRQ6
	5-6 Out	SCSI DMA DRQ5
	7-8 In	SCSI DMA DRQ0
	9-10 Out	SCSI DMA DACK7
	11-12 Out	SCSI DMA DACK6
	13-14 Out	SCSI DMA DACK5
	15-16 In	SCSI DMA DACK0

**MPI 4xx6**

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
JP1	Out	Normal 486DX operation
JP2	In	Colour display
	Out	Mono
JP3,4	JP3 Out	Enable HD controller
	JP4 In	Use IDE HD
JP6	1-2 Out	SCSI IRQ15
	3-4 In	SCSI IRQ11
	5-6 Out	SCSI IRQ10
	7-8 Out	SCSI IRQ9
	9-10 Out	SCSI primary address (0340 or 0140)
	11-12 In	13-14 Out
	Out	In
		Enable SCSI
		Disable
	15-16 In	Enable onboard VGA controller
JP7	1-2 Out	SCSI DMA DRQ7
	3-4 Out	SCSI DMA DRQ6
	5-6 Out	SCSI DMA DRQ5
	7-8 In	SCSI DMA DRQ0



<i>Jumper</i>	<i>Position</i>	<i>Function</i>	
	9-10 Out	SCSI DMA DACK7	
	11-12 Out	SCSI DMA DACK6	
	13-14 Out	SCSI DMA DACK5	
	15-16 In	SCSI DMA DACK0	
JP8	1-2,3-4,5-6,7-8 In	3.5" diskette connector goes to A	
	1-3,2-4,5-7,6-8 Out	Alternate drive (5.25) connector goes to A	
JP10	1-2 In	Serial B is COM2/4	
	2-3 Out	Serial B is COM1/3	
JP11	1-2 In	Serial A is COM1/3	
	2-3 Out	Serial A is COM2/4	
JP12	1-2 In	Parallel port LPT1	
	2-3 Out	Parallel port LPT2	
JP15	1-2 In	2-3 Out	CPU speed select
JP16	1-2 Out	2-3 In	Enhancement socket select

## Unitron

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	U7908		

## Unknown

### F4DXL-UC4.3D/DV (486)

Item	Description	Notes
Form Factor	AT	
CPU	486	
Speeds (MHz)		
Chipset	UMC	
BIOS		
Bus	7 ISA	3 VESA
Memory (Mb)	192 Mb	
Cache (K)	256	
Comments		

<i>Jumper</i>	<i>Position</i>			<i>Function</i>			
JP4-6	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>CPU Clock</b>			
	Off	Off	On	25 MHz			
	On	On	On	33 MHz			
	Off	On	On	40 MHz			
	On	Off	Off	50 MHz			
JP11-13 JP17-19	<b>JP11</b>	<b>JP12</b>	<b>JP13</b>	<b>JP17</b>	<b>JP18</b>	<b>JP19</b>	<b>CPU Type</b>
	Out	2-3	1-2,3-4	1-2	Out	Out	486DX/DX2
	Out	2-3	1-2,3-4	1-2	Out	Out	AMD 486DX/DX2 (5v)
	1-2,3-4	1-2,3-4	2-3	Out	2-3,4-5	2-3,4-5	Cyrix 486DX
		5-6					
	1-2,3-4	1-2,3-4	1-2,3-4	1-2	2-3,4-5	2-3	Cyrix 486DX2
	5-6	5-6					
	1-2,4-5	1-2,4-5	1-2,3-4	1-2	3-4,5-6	1-2,3-4	P24D
	1-2	1-2	1-2,3-4	2-3	5-6	1-2,3-4	P24T
	1-2	1-2	1-2,3-4	1-2	1-2	5-6	DX4/100
	2-3	2-3	1-2,3-4	1-2,3-4	1-2	Out	AMD 486DX4/100

Jumper	Position					Function	
	2-3	2-3	1-2,3-4	1-2,3-4	1-2	Out	AMD 486 DX2-80*
	Out	2-3	2-3	Out	Out	Out	486SX
	2-3	2-3	2-3	3-4	1-2	Out	UMC 486SX
							Insert wire between pin 4 of JP12 and 3 of JP20
JP14-16	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>JP23</b>			<b>CPU voltage</b> (non-dip sw)
JP23	1-2	1-2	1-2	In			3.3v*
	1-2	1-2	1-2	Out			3.6v
	2-3	2-3	2-3	Out			5v
							Use VR LT1086 on U24
JP14-16	<b>JP14-16</b>	<b>SW1</b>	<b>SW2</b>	<b>SW3</b>			<b>CPU voltage</b> (dip sw)
SW1-3	2-3	-	-	-			5v
	1-2	Off	Off	Off			4v
	1-2	Off	Off	On			3.6v
	1-2	Off	On	Off			3.45v
	1-2	On	Off	Off			3.3v
JP21	In						VESA >33 MHz
	Out						VESA <=33 MHz
JP22	In						VESA 1 WS
	Out						VESA 0 WS

M 601 (486)

Item	Description	Notes
Form Factor	AT	
CPU	486	
Bus	7 ISA	3 VESA
Memory (Mb)	64 Mb	
Cache (K)	256	

Jumper	Position					Function	
JP2-6	<b>JP2</b>	<b>JP3</b>	<b>JP4</b>	<b>JP5</b>	<b>JP6</b>	<b>Cache size</b>	
	Out	In	Out	1-2	Out	64K	
	Out	In	In	2-3	2-3	128K	
	In	In	In	1-2	1-2	256K	
JP7,8	<b>JP7</b>	<b>JP8</b>				<b>TK 9207 Clock Generator</b>	
	1-2	1-2				33 MHz	
	2-3	1-2				40 MHz	
	<b>JP7</b>	<b>JP8</b>				<b>KTS0808c/0801c/AV9107</b>	
	1-2	1-2				40 MHz	
	2-3	1-2				50 MHz	
	<b>JP7</b>	<b>JP8</b>				<b>TK 9307</b>	
	1-2	1-2				25 MHz	
	2-3	1-2				33 MHz	
	1-2	2-3				40 MHz	
	2-3	2-3				50 MHz	
	<b>JP7</b>	<b>JP8</b>	<b>JP24</b>			<b>PLL52C05/KTS KDN 802</b>	
	2-3	1-2	1-2			25 MHz	
	2-3	2-3	1-2			33 MHz	
	1-2	1-2	2-3			40 MHz	
	2-3	1-2	2-3			50 MHz	
							v1.3E/F
JP16,17	<b>JP16</b>	<b>JP17</b>				<b>CPU Type</b>	
	1-2,3-4	1-2				486DX	
	2-3	Open				SX (Cyrix 486)	
	1-2,3-4	2-3				P23N	

## 3486

Item	Description	Notes
Form Factor	AT	
CPU	386/486	
Speeds (MHz)		
Chipset	UMC	
BIOS	AMI	
Bus	6 ISA	1 weird local bus slot
Memory (Mb)	32 Mb	
Cache	256K	

Jumper	Position	Function
JC1-4	1-2 2-3	80486 80386 or Cyrix 486DLC
JC5,6	<b>JC5</b> <b>JC6</b> 1-2,3-4    1-2 2-3        Out 1-2,3-4    2-3	<b>CPU Select</b> (486 above) DX/DX2 SX 487SX/Overdrive
JF1-5	<b>JF1</b> <b>JF2</b> <b>JF3</b> <b>JF4</b> <b>JF5</b> Out        In            In            In            Out Out        Out        In            In            In Out        In            Out        In            In In          In            Out        Out        In Out        In            In            Out        In Out        Out        In            Out        In Out        Out        Out        Out        Out	<b>CPU Speed</b> 25 MHz 386 33 MHz 386 40 MHz 386 20 MHz 486 25 MHz 486 33 MHz 486 50 MHz 486
J1-3	1-2 2-3	Local bus card in slot 5 Normal card
J4	1-2 2-3	Normal 486DX-50 with local bus device
J5	1-2 2-3	Normal 386/486 DX-50 with local bus device

## K5T1

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	
Bus	6 ISA	
Memory (Mb)		
Cache	256K	

Jumper	Position	Function
JP1,JP2	1-2 2-3	COM2 Infrared – 87334=HP, 87336=HP or Sharp
JP3	1-2,3-4 5-6,7-8 9-10,11-12	ECP DMA 0 ECP DMA 1 ECP DMA 2
JP4	Out 3-4 1-2,3-4	50 MHz bus speed 60 MHz 66 MHz
JP5,8	<b>JP5</b> <b>JP8</b> 1-2        Out 2-3        2-3 2-3        1-2	<b>BIOS Type</b> EPROM 12v Flash 5v Flash
JP6,7	1-2	IDE0/1 IRQ 14/15

Jumper	Position	Function		
	2-3	IDE 0/1 MIRQ0/MIRQ1		
JP9	1-2	AT bus PCICLK/3		
	2-3	AT bus PCICLK/4		
JP10	In	Clear CMOS		
	Out	Normal		
JP11-12	<b>JP11</b>	<b>JP12</b>	<b>JP14</b>	<b>Cache size</b>
14	1-2	1-2	Out	None
	2-3	1-2	Out	256K
	1-2	2-3	Out	512K
JP13	1-2	5v CPU voltage		
	2-3	3.3v		
JP15	In	CPU non-pipeline		
	Out	Pipeline mode		
JP16	In	L1 cache w/t		
	Out	L1 cache w/b		
JP17,18	<b>JP17</b>	<b>JP18</b>	<b>CPU clock multiplier</b>	
	In	In	2.5x	
	Out	In	3x	
	In	Out	2x	
	Out	Out	1.5	
JP19	1-3	3.45 VRE voltage		
	2-4	3.3 VRE/MD voltage		
JP20-22	In	Enable onboard voltage regulator		
	Out	Disable		
JP23	1-3,2-4	5v SRAM		
	3-5,4-6	3.3v SRAM		
JP28	In	Normal speed		
	Out	Turbo		

*Sis 486 PI*

Item	Description	Notes
Form Factor	AT	
CPU	486	
Bus	3 PCI/3 ISA	
Memory (Mb)		4 72-pin
Cache	256K	

Jumper	Position	Function							
JP1	1-2	32Kx8/8Kx8 Tag RAM							
	2-3	16Kx8							
JP2	1-2	128K cache							
	2-3	256K cache							
JP4	1-2	Normal							
	2-3	Clear CMOS							
JP5-12	<b>JP5</b>	<b>JP6</b>	<b>JP7</b>	<b>JP8</b>	<b>JP9</b>	<b>JP10</b>	<b>JP11</b>	<b>JP12</b>	<b>CPU Type (Yellow)</b>
	Off	1-2	1-2,6-7	4-5,6-7	On	2-3	1-2,3-4	4-5	Intel P24D/AMD SV8B
	3-4	1-2	1-2,6-7	4-5,6-7	On	2-3	1-2,3-4	4-5	AMD 5x86-P75
	Off	1-2	1-2,6-7	4-5,6-7	On	2-3	1-2,3-4	4-5	Cyrix/ST/IBM 5x86
	Off	Off	2-3	4-5,6-7	On	2-3	3-4	4-5	486 SLE DX/DX2/DX4
	Off	Off	5-6*	Off	Off	2-3	Off	4-5	AMD DX/DX2/DX4 (NV8T)
	2-3	2-3	7-8	2-3,5-6	On	2-3	2-3	4-5	TI/Cyrix DX2/DX4
	1-2	1-2	3-4	1-2,6-7	On	1-2	3-4	1-2	P24T (Pentium ODP)
	Off	Off	2-3	4-5,6-7	On	2-3	1-2,3-4	4-5	IBM/ST DX4-100
*3v AMD DX2- 6-7 for AMD DX4									
JP13,W1	JP13	W1							CPU Voltage
	1-2	Out							3v

<i>Jumper</i>	<i>Position</i>		<i>Function</i>
	2-3	Out	4v
	Out	In	5v
JP18	Out		25 MHz
	1-2		33 MHz
	3-4		40 MHz

## VXPro Pentium

Possibly PC Chips

Item	Description	Notes
Form Factor	AT	
CPU	Pentium	
Chipset	VxPro	
BIOS		
Bus	4 PCI/3 ISA	
Memory (Mb)		2 DIMM, 4 72-pin
Cache	256K	

<i>Jumper</i>	<i>Position</i>				<i>Function</i>
JP1	1-2				Normal
	2-3				Clear CMOS
JP2	1-2				5v EDO/FPM DIMM
	2-3				3.3v SDRAM DIMM
JP3	<b>A</b>	<b>B</b>	<b>C</b>		<b>CPU Speed</b>
	2-3	2-3	2-3		50 MHz
	1-2	2-3	2-3		55 MHz
	2-3	2-3	1-2		60 MHz
	2-3	1-2	2-3		66 MHz
	1-2	2-3	1-2		75 MHz
JP3 D	1-2				PCI CPU CLK/2
	2-3				33 MHz
JP4	1-2				12v Flash ROM
	2-3				5v Flash ROM
JP5	<b>A</b>	<b>B</b>			<b>Clock Multiplier</b>
	1-2	2-3			1.5/3.5
	2-3	1-2			2x
	2-3	2-3			2.5x
	1-2	2-3			3x
JP6	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>CPU Core Voltage</b>
	In	Out	Out	Out	3.5v
	Out	In	Out	Out	3.2v
	Out	Out	In	Out	2.9v
	Out	Out	Out	In	2.8v
	Out	Out	Out	Out	2.5v
JP9	1-2				P55C (Dual voltage CPU)
	2-3				P54C (Single Voltage CPU)

USI

US Logic

[www.uslogic.com](http://www.uslogic.com)

*Notes*



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## Vanilla

### VAN3S33A-2NW

#### 386SX-33 Processor Board

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP1	On	Colour
	Off	Mono
JP2	On	Enable Bus Mouse IRQ5
JP3	On	Enable Bus Mouse IRQ4
JP4	On	Enable Bus Mouse IRQ3
JP5	On	Enable Bus Mouse IRQ9
JP6	1-2	Onboard battery
	2-3	Clear CMOS
JP7	2-3	Select EPROM
JP8	1-2	Select bus mouse enabled
	2-3	Select bus mouse disabled

#### J1

<i>Jumper</i>	<i>Function</i>
1-4	Speaker
11-15	Power LED/Keyboard
7 & 17	Turbo switch
8 & 18	Turbo LED
9 & 19	Reset
10 & 20	HD LED

#### Colourtron

<i>Jumper</i>	<i>Position</i>	<i>Function</i>
1	On	IRQ9 enable
2	On	0 wait state
	Off	1 wait state
3	On	Enable card

## Vextrec

www.vextrec.com

## Victor

## V286D

Switch	Position	Function
E1-2	In	Slim Add-PAK Receiver PCB is Master
	Out	Slave
E3-4	In	PDIag
E5-6	In	Pulldown resistor
E7-8	Out	RTC/RAM Normal operation
	In	Clear
E9-10	In	2 32K x 8 BIOS EPROMs
E14-15	In	Enable onboard video
E15-16	In	Disable onboard video
E17-18	Out	Standard/no video interrupt
	In	Video IRQ9
E19-20	In	VGA BIOS AT Mode
E20-21	In	VGA BIOS PS/2 Mode
E22-23	In	VGA analogue or multisync monitor
E23-24	In	Non-standard multi-frequency monitor
E31-32	In	Disable HD LED
E32-33	In	Enable HD LED

## V286M

Backplane board

Switch	Position	Function
A	In	External Hercules/CGA
	Out	Onboard VGA
B	Out	Reserved
C		Reserved
JB1	1-4 Out	Reserved
	2-3 Out	Reserved
JB2	1-8 In	Enable COM1
	2-7 In	Enable COM2
	3-6 In	IRQ4 for COM1
	4-5 In	IRQ5 for COM2
J5	1-2 In	Parallel port is primary port
	2-3 In	Parallel port is secondary port
J6	1-2 In	Primary parallel port interrupt selected
	2-3 In	Secondary parallel port interrupt selected

## V386DSX

Switch	Position	Function
S1	On	Enable parallel port
S2	On	Parallel port is LPT1
	Off	Parallel port is LPT2
S3	On	Enable serial port
S4	On	Serial port is COM1/3 (affects I/O port)
	Off	Serial port is COM2/4 (affects I/O port)
S5	On	Disable ext parallel port (bidirectional mode)
S6	On	Primary FD address 3F0-3F7
	Off	Secondary FD address 370-377
S7	On	Enable IDE type drive port



<i>Switch</i>	<i>Position</i>	<i>Function</i>
S8	On	Primary IDE port address 1F0-1F7 for CS0, 3F6-3F7 for CS1
	Off	Secondary IDE port address 170-177 for CS0, 376-377 for CS1
E1-E2		256K (32K x 8) BIOS
E5-E6		Reserved
E7-8		Colour video
E8-9		Mono
E10-11		Indicator on with power, half bright during IDE activity
E11-12		Indicator on with power only
E13-14		LPT IRQ5
E14-15		LPT IRQ7
E16-17		COM1 IRQ4
E17-18		COM2 IRQ3
E19-20		Enable onboard video
E20-21		Disable
E22-23		Disable video IRQ 9
E23-24		Enable
E25-26		Non-standard multi-frequency monitor installed
E26-27		VGA or standard
E28-29		Serial port is COM3 or COM4
E29-30		Serial port is COM1 or COM2

### V386M/33

#### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-6 In	Reserved
	2-5 Out	Out-Disables looped manufacturing data
	3-4 In	Colour display Out=mono
J14	1-2	IDE responds to primary HD address
	2-3	IDE responds to secondary HD address

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-4 Out	Reserved
	2-3 Out	Reserved
JB2	1-8	Enable COM1
	2-7	Enable COM2
	3-6	COM1 IRQ4
	4-5	COM2 IRQ5
J5	1-2	Parallel port is LPT1
	2-3	Parallel port is LPT2
J6	1-2	Primary LPT IRQ
	2-3	Secondary LPT IRQ

### V386MW/33

#### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	Primary IDE address
	2-3	Secondary IDE address
	Out	No IDE
JP2		Reserved (all out)

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-8	Enable COM1
	2-7	Enable COM2

<i>Switch</i>	<i>Position</i>	<i>Function</i>
	3-6	COM1 IRQ4
	4-5	COM2 IRQ3
J13,14	1-2	Enable LPT1
	2-3	Enable LPT2

### V386MWX/20

#### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB2	1-6 In	Reserved
	3-4 In	Reserved
JB3	1-10	Out=1024x768 NI In=1024x768 Interlaced
	2-9	3-8 800x600 setting
	Out	Out 16 colour @ 72 Hz, 256 @ 60 Hz
	Out	In 16/256 @ 60 Hz
	In	Out 16 @ 72 Hz, 256 @ 56 Hz
	In	In 16/256 @ 56 Hz
	4-7	Out=AT VGA mode In=PS/2 VGA
	5-6	Out=Other monitor timing In=Multisync 1 timing
J4	1-2	Onboard speaker
	Out	Speaker connector
J12	In	Onboard video
	Out	Other VGA
J13	All Out	For piggyback VGA board

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-8	Enable COM1
	2-7	Enable COM2
	3-6	COM1 IRQ4
	4-5	COM2 IRQ3
J13,14	1-2	Enable LPT1
	2-3	Enable LPT2

### V386MX

#### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
A	In	External Hercules/CGA
	Out	Onboard VGA
B,C	Out	Reserved

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-4 Out	Reserved
	2-3 Out	Reserved
JB2	1-8 In	Enable COM1
	2-7 In	Enable COM2
	3-6 In	COM1 IRQ4
	4-5 In	COM2 IRQ3
J5	1-2 In	Parallel port primary address
	2-3 In	Parallel port secondary address
J6	1-2 In	Primary LPT IRQ
	2-3 In	Secondary LPT IRQ

## V486M/33

### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-6	Reserved
	3-4	Reserved
J8	1-2	Onboard speaker
	Out	Speaker connector
J9		Reset
J18	1-2	486SX
	2-3	486DX/487SX
J19	Out	486SX
	In	486DX/487SX
J20	1-2	486DX
	2-3	487SX
	Out	486SX
J21	In	Onboard video
	Out	External video

### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
J7		ADD-PAK lock I/O address
J8	1-2	LPT1 IRQ7
	2-3	LPT2 IRQ5
J9	1-2	LPT1 chip select
	2-3	LPT2 chip select
J10		Parallel port mode
J11	1-2	HD primary port I/O select
	2-3	HD secondary port I/O select
JB1	1-4	Floppy precompensation value
	2-3	Floppy drive type
JB2	1-8	COM1 selected
	2-7	COM2 selected
	3-6	Enable IRQ4
	4-5	Enable IRQ3

## V486M/50

### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-6	Reserved
	3-4	Reserved
J4		Keyboard lock
J8	1-2	Onboard speaker
	Out	Speaker connector
J18	1-2	486SX
	2-3	486DX/487SX
J19	Out	486SX
	In	486DX/487SX
J20	1-2	486DX
	2-3	487SX
	Out	486SX
J21	In	Onboard video
	Out	External video

### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
J7		ADD-PAK lock I/O address

Switch	Position	Function
J8	1-2	LPT1 IRQ7
	2-3	LPT2 IRQ5
J9	1-2	LPT1 chip select
	2-3	LPT2 chip select
J10		Parallel port mode
J11	1-2	HD primary port I/O select
	2-3	HD secondary port I/O select
JB1	1-4	Floppy precompensation value
	2-3	Floppy drive type
JB2	1-8	COM1 selected
	2-7	COM2 selected
	3-6	Enable IRQ4
	4-5	Enable IRQ3

## V86M

### CPU Card

Switch	Position	Function	
JB1	<b>1-16</b>	<b>2-15</b>	<b>Floppy A</b>
	In	In	360 K
	In	Out	1.2 Mb
	Out	In	720 K
	Out	Out	1.44 Mb
	<b>3-14</b>	<b>4-13</b>	<b>Floppy B</b>
	In	In	360 K
	In	Out	1.2 Mb
	Out	In	720 K
	Out	Out	1.44 Mb
	5-12 In		1 floppy
	5-12 Out		2 floppies
<b>6-11</b>	<b>7-10</b>	<b>HD select</b>	
In	In	No IDE	
Out	In	1 <sup>st</sup> IDE	
Out	Out	2 <sup>nd</sup> IDE	
8-9		Reserved	

### Backplane

Switch	Position	Function
JB1	1-4 Out	Reserved
	2-3 Out	Reserved
JB2	1-8 In	Enable COM1
	2-7 In	Enable COM2
	3-6 In	COM1 IRQ4
	4-5 In	COM2 IRQ3
J5	1-2	Parallel port is primary
	2-3	Parallel port is secondary
J6	1-2	Primary parallel port IRQ
	2-3	Secondary parallel port IRQ

## V486MWX/20

### CPU Card

Switch	Position	Function
JB1	1-6	Reserved
	3-4	Reserved
J4		Keyboard lock
J8		Speaker connector
J9		Reset
J18	1-2	486SX

<i>Switch</i>	<i>Position</i>	<i>Function</i>
	2-3	486DX/487SX
J19	Out	486SX
	In	486DX/487SX
J20	1-2	486DX
	2-3	487SX
	Out	486SX
J21	In	Onboard video
	Out	External video

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-8	COM1 selected
	2-7	COM2 selected
	3-6	Enable IRQ4
	4-5	Enable IRQ3
J13,14	1-2	Enable LPT1
	2-3	Enable LPT2

### V486MX/20

#### CPU Card

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-6 In	Reserved
	3-4 In	Reserved
	2-5 Out	Reserved
J4		Keyboard lock
J8	1-2	Onboard speaker
	Out	Speaker connector
J9		Reset
J18	1-2	486SX
	2-3	486DX/487SX
J19	Out	486SX
	In	486DX/487SX
J20	1-2	486DX
	2-3	487SX
	Out	486SX
J21	In	Onboard video
	Out	External video

#### Backplane

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JB1	1-8	COM1 selected
	2-7	COM2 selected
	3-6	Enable IRQ4
	4-5	Enable IRQ3
J13,14	1-2	Enable LPT1
	2-3	Enable LPT2

### V486MX/25

As for V486MWX/20

## Vision Top

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	VT586-2/TX	CG-00	S7-MVP3
BC-00	S7-MVP3		

## Vobis

## VTech

(847) 215 9806

www.pcpartner.com

## Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C	MP5-TRI	KC	MB500N
9C	MP5-TRI	LC	Platinum NSV/INST/NSP
9C-00	MB540N	HC	MP5-TRI
DC	HIS P6EX4-A3	KC	MB500N
DC-00	VIB804DSE	LC	MB500N
EC-00	MB520NH		

## MB 520NH

Aristo AM 439VX

## MB540N

Aristo AM 430TX/Yellow Dragon TX

## VIB804DSE

Same as Digimate T5DX-VPX2E

## VTI

See Vextrec



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## Walters International

### 325S

<i>Switch</i>	<i>Position</i>	<i>Function</i>
J1	In	Enable external battery
	Out	Disable
J2	1-2	Reserved
J3	In	Colour monitor
	Out	Mono
J4		8042 speed control pin
J5-8	In	Normal for 325S
	Out	Normal for 325SC
J9	1-2	32K cache
	2-3	64K cache
J10		Power LED/Keylock
J11		Turbo LED
J12	In	High speed
	Out	Low speed
J13		Speaker
J14		Reset

### 333S

As for 325S

### 333SC

As for 325S

### MB1212C

<i>Switch</i>	<i>Position</i>	<i>Function</i>
J1	1-3	Power LED
	4-5	Keyboard LED
J2		Speaker

Switch	Position	Function
JP1		Turbo LED
JP2		Reset Switch
JP3		Turbo switch
JP4	1-2	Processor CLK
	2-3	External CLK
JP6	1-2	MGA monitor
	2-3	CGA/EGA/VGA
JP7	1-2	External power
	2-3	Internal power

### 200BE

Switch	Position	Function
JP3-8	1-3	Up to 4 Mb
	1-2	Up to 8 Mb
J5		High speed LED
J6		CPU display connector
J7	1-2	Normal
	2-3	Reset for chips register setup
J18		Power LED/Keylock
J19		Speaker
J24		External battery
J25	1-2	CPU CLK selectable by keyboard
	2-3	High speed
J30		Reset
JPG	1-2	Normal
	2-3	Reserved
SW1	1-2	Colour monitor
	2-3	Mono

### 120/160BE

As for 200BE

### 160A

Switch	Position	Function
J2	1-2	CPU CLK selectable by keyboard
	2-3	16 MHz
J3	1-2	High speed LED
J5	1-2	Colour monitor
	2-3	Mono
J6		Reset
J7	1-2	Normal
	2-3	Reset for chips register setup
J16		Power LED/Keylock
J17		Speaker
J18		External battery

### 120/160B

As for 160A

### ELT 325P

Switch	Position	Function
SW1	1-2	Mono display
	2-3	Colour



Switch	Position	Function
JP3,4	<b>JP3</b>	<b>JP4</b>
	2-3	1-2
	1-2	2-3
<b>Memory</b>		
		Bank 0,1 onboard, Bank 2,3 on card
		Bank 0,1 onboard or on card
J5		Turbo LED
J18		Power LED/Keylock
J19		Speaker
J24		External battery
J25	In	Turbo switch set low
	Out	Turbo switch set high
J30		Reset
J32	In	CPU pipeline
	Out	Non-pipeline

### ELT 386sx/160D

Switch	Position	Function
JP2,3	<b>JP2</b>	<b>JP3</b>
	1-2	2-3
	2-3	1-2
<b>Memory</b>		
		Card and SIP for base memory
		SIP for base memory
J5		LED
J18		Power LED/Keylock
J19		Speaker
J24		External battery
J25	1-2	Alt-Ctrl + for high speed
		Alt-Ctrl – for low speed
J30		Reset
J31		ESDI, Token Ring Compatible Jumper

### Warpspeed

[www.warpspeedinc.com](http://www.warpspeedinc.com)

### Western Digital

[www.wdc.com](http://www.wdc.com)

### Faraday Bus PC

Switch	Position	Function
JU1	<b>1</b>	<b>2</b>
	In	In
	In	Out
	Out	In
	Out	Out
<b>Monitor Type</b>		
		Disabled
		80 x 25 graphics
		40 x 25 graphics
		Mono
JU1-4	In	Enable COM1 RS422 transmitter
	Out	Enable software control COM1 RS422 transmitter
JU1	<b>5</b>	<b>6</b>
	In	Out
	Out	In
<b>EPROM</b>		
		27256
		2764, 27128
JU2-1	In	Disable COM1
	Out	Enable
JU2-2	In	Disable COM2
	Out	Enable
JU 2-3	In	Enable LPT1
	Out	Disable

Switch	Position		Function
JU2-4,5	<b>4</b>	<b>5</b>	<b>EPROM</b>
	In	Out	27256
	Out	In	2764, 27128
JU2-6,7	<b>6</b>	<b>7</b>	<b>COM1</b>
	In	Out	RS422 RCV
	Out	In	RS232 RCV
JU2-8	In		RS422 terminator COM1
	Out		No Terminator
J2			RS232/422
J3			RS232
J4			Parallel port
J5			Reset
J6			Speaker
J7			6 pin keyboard connector
J8			9 pin keyboard connector
J9			NMI port

Faraday FE6400

SW1

Switch	Position		Function
1,7,8	<b>1</b>	<b>7</b>	<b>8</b>
			<b>Floppy Drives</b>
	On	On	On
	Off	On	On
	Off	Off	On
	Off	On	Off
3,4	Off		Reserved
	Off	Off	Off
5,6	<b>5</b>	<b>6</b>	<b>Monitor Type</b>
	On	On	None
	Off	On	40x25
	On	Off	80x25
	Off	Off	Mono

SW2

Switch	Position				Function
1-4	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>Memory Size</b>
	On	On	On	On	64K
	On	On	On	Off	96K
	On	On	Off	On	182K
	On	On	Off	Off	160K
	On	Off	On	On	192K
	On	Off	On	Off	224K
	On	Off	Off	On	256K
	On	Off	Off	Off	288K
	Off	On	On	On	320K
	Off	On	On	Off	352K
	Off	On	Off	On	384K
	Off	On	Off	Off	416K
	Off	Off	On	On	448K
	Off	Off	On	Off	480K
	Off	Off	Off	On	512K
Off	Off	Off	Off	640K	
J17	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Base Memory</b>
	In	Out	In	Out	65K
	Out	In	In	Out	128K
	Out	In	Out	In	256K
5-9	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
	Off	On	On	On	Off
					75 (1-5,6 must be on)

Switch	Position				Function	
	On	Off	On	On	Off	110
	Off	Off	On	On	Off	134.5
	On	On	Off	On	Off	150
	Off	On	Off	On	Off	300
	On	Off	Off	On	Off	600
	Off	Off	Off	On	Off	1200
	On	On	On	Off	Off	2400
	Off	On	On	Off	Off	4800
	On	Off	On	Off	Off	9600
	Off	Off	On	Off	Off	19200
J17-13	<b>J17-13</b>	<b>SW1-2</b>				<b>Coprocessor</b>
SW1-2	Out	Off				8087 installed
	In	On				Not installed
J2						Disable UART
J3	In					Disable EPROM
	Out					Enable
J5						NMI control
J14						Reset
J15						Speaker
J16,18						Keyboard connectors

## J17

EPROM 0		EPROM 1		EPROM				Type
1	2	3	4	5	6	7	8	Type
In	Out	In	Out	In	Out	In	Out	2716
Out	In	In	Out	Out	In	In	Out	2732
Out	In	Out	In	Out	In	Out	In	2764/27128

## Faraday FE641x

Switch	Position		Function
V1,2	<b>V-1</b>	<b>V-2</b>	<b>Monitor Type</b>
	In	In	Disabled
	Out	In	40 x 25 graphics
	In	Out	80 x 25 graphics
	Out	Out	Mono
JU1-1			Reserved
2	In	Enable LPT1	
	Out	Disable	
3	In	Enable COM1	
	Out	Disable	
4	In	Enable 256K base memory	
	Out	64K	
5	In	Enable EPROM	
	Out	Disable	
7,8	<b>7</b>	<b>8</b>	<b>EPROM Type</b>
	Out	In	2764
	Out	In	27128
	In	Out	27256
J10			Power Connector
J11			Reset
J12,13			Keyboard
J14			Speaker
J15			Floppy
J16			RS232
J17			LPT
J18			NMI

Switch	Position	Function
J21		Mono port

### Faraday FE642x

Switch	Position	Function	
J2	Out	64K RAM	
	In	256K RAM	
J3	Out	27256 EPROM	
	In	27128, 2764	
J4	Out	27128, 2764	
	In	27256	
J9		LPT	
J10		Power	
J11		Reset	
J12,13		Keyboard	
J15		Onboard floppy	
J16,17		Serial ports	
J18		Speaker	
J19		NMI	
SW1	<b>S1</b>	<b>S2</b>	<b>Monitor Type</b>
1,2	In	In	Disabled
	Out	In	40 x 25 graphics
	In	Out	80 x 25 graphics
	Out	Out	Mono

### Faraday Micro PC/CMOS

Switch	Position	Function	
JU1	<b>1</b>	<b>2</b>	<b>EPROM Type</b>
1,2	Out	Out	2764, 27128
	In	Out	27256
	In	In	27512
JU2	<b>1</b>	<b>2</b>	<b>Monitor Type</b>
1,2	In	In	Disabled
	In	Out	80 x 25 graphics
	Out	In	40 x 25 graphics
	Out	Out	Mono
J2,3			Keyboard
J4			Speaker
J5			Reset
J6			NMI

### Faraday A-Tease

Switch	Position	Function	
JF5	<b>3</b>	<b>4</b>	<b>EPROM Size</b>
3,4	Out	In	27128
	In	Out	27256
JF1-6	In		Disable COM1
	Out		Enable
JF1-7	In		Disable COM2
	Out		Enable
JF1-8	In		Enable LPT1
	Out		Disable
JF2-1	In		Enable COM1 RS422 Xmitter
	Out		Software control
JF2-2,3	<b>2</b>	<b>3</b>	
	In	Out	COM1 RS232 Receiver
	Out	In	COM1 RS422 Receiver

Switch	Position	Function	
JF2-4	In	COM1 RS422 Terminator In	
	Out	Out	
JF2-5	In	Enable COM2 RS422 Receiver	
	Out	Software control	
JF2-6,7	<b>6</b>	<b>7</b>	
	In	Out	COM2 RS422 Receiver
JF2-8	Out	In	COM1 RS232 Receiver
	In	Out	COM2 RS422 Terminator In
JF3-4	Out	Out	COM1 RS232 Receiver
	In	Out	COM2 RS422 Terminator In
JF3-5-7	In	Out	COM2 RS422 Terminator In
	Out	Out	Out
JF3-8	In	Out	Maintenance Mode
	Out	Out	Normal
JF3,5-7			User defined – may be read by software
JF4-1	Out	Out	AT keyboard
	In	Out	PC keyboard
JF4-1	Out	Out	Mono adapter
	In	Out	CGA

#### JF1..JF5

JF1-2	JF1-3	JF1-4	JF1-5	JF5-1	JF5-2	Type
Out	In	Out	In	Out	In	2716
In	Out	Out	In	Out	In	2732
In	Out	In	Out	Out	In	2764/27128
In	Out	In	Out	In	Out	27256

#### WD286-LPM

Switch	Position	Function
W3	1-2	Mono
	2-3	CGA
W4	1-2	Disable onboard floppy
	2-3	Enable
W5	1-2	Reserved
W9	1-2	16/12.5 MHz 80C287maths copro
	2-3	6 MHz 80287
W11	1-2	Disable onboard VGA
	2-3	Enable
W12	1-2	Disable IDE LED
	2-3	Enable
W15	1-2	Enable IRQ9
	2-3	Disable
W16	In	Enable PS/2 IRQ12
	Out	Disable
W17		Reserved
J6		Reset
J15		Key switch/IDE

#### WD286-WDM2

Switch	Position	Function
W1	In	Enable MFM HD LED
W3	In	Enable HD controller chip select
W4	Out	Reserved
W5	In	HD controller IRQ14
W6	Out	Reserved
W7	1-2	Reserved
W8	In	Floppy IRQ6
W10	Out	IDE IRQ14

Switch	Position	Function
W11	Out	Disable IDE LED
W12	Out	AT keyboard
	In	XT keyboard
W13	In	Enable video IRQ9
W17	In	Enable PS/2 mouse IRQ12
W18	Out	Colour display
	In	Mono
W19	In	LPT IRQ7
W20	In	COM2 IRQ3
W21	In	COM1 IRQ4
W22	Out	IDE Chip select

### WD286-WDM20

Switch	Position	Function
W3	In	Enable HD controller chip select
W4	Out	Reserved
W5	In	HD controller IRQ14
W10	Out	IDE support IRQ14
W6	Out	Reserved
W7	1-2	Reserved
W8	In	Floppy IRQ6
W12	Out	AT keyboard
	In	XT keyboard
W13	In	Enable video IRQ9
W17	In	Enable PS/2 mouse IRQ12
W18	2-3	Colour display
	1-2	Mono
W19	In	LPT IRQ7
W20	In	COM2 IRQ3
W21	In	COM1 IRQ4
W22	Out	IDE Chip select
W23	In	Enable video NMI
W24	1-2	Disable onboard video data buffer
	2-3	Enable
	In	Enable onboard video display

### WD386SX-LPX

Switch	Position	Function
W1	In	Enable password memory clear
	Out	Disable
W2	Out	Reserved
W3	In	Reserved
W4	In	Enable PS/2 mouse IRQ12
	Out	Disable
W5	1-2	Mono display
	2-3	Colour
W6	1-2	External 8514/A video clock
	2-3	Onboard VGA clock
W7	1-2	Disable onboard VGA
	2-3	Enable
W8	1-2	Fixed frequency monitor
	2-3	Multi-frequency
W9	1-2	PC/AT VGA BIOS
	2-3	PS/2 VGA BIOS
W10	1-2	Enable onboard speaker
	2-3	Disable

Switch	Position	Function
W11	1-2	Disable onboard IDE LED
J6		Reset

## Win

Maybe same as below

## WinCo Electronic Co

www.winco.com.tw

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	P55TV2	AC-00	SL 586VT-2/WP55VT-2D
9C-00	WP55VT2D		

### SL586VT-2

Same as Fong Kai SL 586VT-II

## Win-Lan

## Wintec (Win Technologies)

www.wintec.com. See also Edom

### Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
0-00	MP 046-A	GC-00	MP 082 or 060 Rev A
9C	MP 066	HC	MP 054
AC	MP 071B	JC	MP 058
BC	MP 070	NC	MP 058
FC	MP 076	TC	MP 064

## Wyse

### WY 1100

Switch	Position	Function
JC4		Disable video
JC5		Disable COM1
JC6		Disable COM1 IRQ
JC7		Disable LPT1
JC8		Disable LPT1
R102		Trace cut for 256K RAM selection
P1		COM1
P2		COM2
P3		LPT1
J1		Keyboard
J2		Video

Switch	Position	Function
J12		Power
J13		Backplane connector
J14		Drive A
J16		Drive B
J17		Multifunction backplane
SW1		Reserved

WY 1400

Switch	Position	Function						
S1	Off	Reserved						
S2	On	No 8087						
	Off	8087 installed						
S3	Off	Reserved						
S4	Off	Reserved						
S5,5	<b>S5</b>	<b>S6</b>	<b>Primary Display Mode</b>					
	Off	Off	Mono					
	On	Off	80 column CGA					
	Off	On	40 column CGA					
	On	Off	EGA					
S7,8	<b>S7</b>	<b>S8</b>	<b>Floppies</b>					
	On	On	1					
	Off	On	2					
W1-4	<b>W1</b>	<b>W2</b>	<b>W3</b>	<b>W4</b>	<b>Cyls</b>	<b>Hds</b>	<b>WPC</b>	<b>HD Cap</b>
	In	In	In	In	306	2		5 Mb
	Out	In	In	In	612	4	256	20 Mb
	In	Out	In	In	306	6	128	15 Mb
	Out	Out	In	In	306	4	128	10 Mb
W5	Out							Reserved
W6	Out							Reserved

WY 2012i

Switch	Position	Function		
J10	1-2	80 ns RAM		
	2-3	120 ns RAM		
J17	1-2	Power-on from power supply		
	2-3	Power-on from system board		
J28	1-2	Internal battery		
	2-3	External battery		
J30	Out			
	In	Fast ALE timing mode		
J31	Out	1 wait state		
	In	2 wait states		
SW1	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>Total Memory</b>
1-3	On	Off	On	1 Mb
	Off	Off	On	2 Mb
	On	On	Off	4 Mb
S4	On			Colour video
	Off			Mono

WY 2108

Switch	Position	Function
WA	1-2	640/384K
	2-3	512/512K
WB	In	Enable extended memory
	Out	Disable
WG	In	512K RAM



Switch	Position	Function
	Out	1 Mb RAM
WH	In	Normal bus master
	Out	Not supported

#### Daughterboard

Switch	Position	Function
W8	In	Normal oscillator
	Out	Text oscillator
W10	In	128K ROM
	Out	256/512K ROM
W11	In	256/512K ROM
	Out	128K ROM
W13	In	512K ROM
	Out	256/512K ROM
J4	In	Test mode
	Out	Normal
WD	1-2	Colour display
	2-3	Mono

#### WY 2112/2214

Switch	Position	Function
J4,5	<b>J4</b> Out In	<b>J5</b> In Out
		<b>BIOS ROM size</b> 256/128K 512K
J8	Out In	1 ROM wait state 0 ROM wait state
J9	Out In	1 DRAM wait state 0 DRAM wait state
J12	In Out	Colour display Mono
J13	Out	Normal operation
J18	In Out	Enable DRAM parity Disable
WF1-3	<b>WF1</b> In Out	<b>WF2</b> Out In
J21,22	<b>WF3</b> Out In	<b>J21</b> Out In
		<b>J22</b> Out In
		<b>80287-10 copro</b> 10 MHz Unsupported

Extended J24	Extended J25	Base J6(WB)	CPU Board JT(WA)	Base	Extended
In	In	In	In	512K	0
In	In	In	Out	640K	0
In	In	Out	In	512K	512K at 1000000h
In	In	Out	Out	640K	384K at 1000000h
Out	In	Out	In	512K	512K at 2000000h
Out	In	Out	Out	640K	384K at 2000000h
Out	Out	Out	In	512K	512K at 4000000h
Out	Out	Out	Out	640K	384K at 4000000h

#### WY 2116i

Switch	Position	Function
J1	In Out	256/512K ROM 128K ROM
J2	Out In	256/512K ROM 128K ROM
J3	1-2 2-3	16 MHz CPU Unsupported

Switch	Position				Function
J4	Out				512/640K base memory
	In				256K base memory
J6	In				0 RAM wait state
	Out				1 RAM wait state
J7	In				0 ROM wait state
	Out				1 ROM wait state
J8	Out				0 ROM wait state
	In				2 ROM wait state
J9	In				Enable parity
	Out				Disable
J12	1-2				Masked keyboard scanner chip
	2-3				Ceramic
J13	Out				Normal
	In				Test
J5,14-16	<b>J5</b>	<b>J14</b>	<b>J15</b>	<b>J16</b>	<b>RAM size</b>
	In	Out	In	2-3	1 Mb
J17	Out				½Mb
	In				Reserved (normal)
J18,19	1-2				Reserved
	2-3				211003-02 LB ASIC revision
WA	1-2				211008-01 LB ASIC revision
	Out				640 K base memory
WB	In				512K base memory
	Out				Move split memory
WD	In				Disable
	Out				Colour video
WC,E,F	In				Mono video
	Out				80287-10 copro
J10	In				10 MHz
	Out				Unsupported

WY 2200

Switch	Position					Function
W1-5	<b>W1</b>	<b>W2</b>	<b>W3</b>	<b>W4</b>	<b>W5</b>	<b>EPROM</b>
	In	Out	Out	Out	In	2764
	Out	In	Out	Out	In	27128
W6	Out				Out	27256
	Reserved					
W7	Out					Disable 14.318 MHz oscillator
	In					Enable
W30	In					640K onboard RAM
	Out					Disable 512-640K for 128K plug-in cards
SW1	Colour					Colour display
	Mono					Mono
W100						Reserved
J17						Keyboard
J19						Battery
J24						Dual speed oscillator

WY 3116sx

Processor Board

Switch	Position	Function
W1	Out	Keyboard controller chip set at 250646-XX
	In	Keyboard controller chip set at 250230-12
WA/WB	In	Normal
	Out	Reserved

<i>Switch</i>	<i>Position</i>	<i>Function</i>	
WC	1-2	512/256K BIOS	
	2-3	128K BIOS	
WD	2-3	128/256K BIOS	
	1-2	512K BIOS	
WQ,E	<b>WQ</b>	<b>WE</b>	
	1-2	In	Normal
	2-3	Out	Reserved
WF	1-2	Normal	
	2-3	Reserved	
WG	1-2	Colour Display	
	2-3	Mono	
WJ	2-3	No maths copro	
	1-2	80387SX-16 Installed	
WK	2-3	Keyboard controller chip set at 6805	
	1-2	Keyboard controller chip set at 68705	
WL	1-2	2 BIOS chips	
	2-3	1 BIOS chip	

### WY 3216

#### Processor Board

<i>Switch</i>	<i>Position</i>	<i>Function</i>
	1-2	512/256K BIOS
	2-3	128K BIOS
	2-3	128/256K BIOS
	1-2	512K BIOS
WA	1-2	No 80387-16
	2-3	80387-16 installed
WB	2-3	No 80287-10 or 80387-16
	1-2	80287-10 and 80387-16 installed
WF	1-2	Normal
	2-3	Reserved
WG	2-3	No 80387-16
	1-2	80387-16 installed
L/R	2-3	Static column memory
	1-2	Unsupported memory
WC	1-2	Normal
	2-3	Reserved
WD	1-2	Colour Display
	2-3	Mono

### WY 3225

#### Processor Board

<i>Switch</i>	<i>Position</i>	<i>Function</i>
WA,B,V	In	Normal
	Out	Reserved
WC	1-2	512/256K BIOS
	2-3	128K BIOS
WD	2-3	128/256K BIOS
	1-2	512K BIOS
WE	In	Enable RAM parity
	Out	Disable
WF	1-2	Normal
	2-3	Manufacturing test
WG	2-3	Colour Display

<i>Switch</i>	<i>Position</i>	<i>Function</i>
	1-2	Mono
WH	In	Normal
	Out	Reserved
WI	Out	Normal
	In	Reserved
WJ	In	No 80387
	Out	80387 Installed
WK	1-2	Normal
	2-3	Reserved
WL	1-2	Enable Hidden Refresh
	2-3	Disable
WM	1-2	Normal
	2-3	Reserved
WN	1-2	Normal
	2-3	Reserved
WU/T/S	In	1 chip keyboard scanner
R/P/Q	Out	2 chips
J5		Connector for serial/parallel interface board

### WY 386sx/16

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP3	2-3	Disable onboard IRQ2
	1-2	Enable
JP4	1-2	Enable onboard FD controller
	2-3	Disable
JP5	2-3	PS/2 mouse
	1-2	Serial mouse
JP6	2-3	Enable onboard video controller
	1-2	Disable
JP8	2-3	Mono monitor
	1-2	Colour
JP10	2-3	LPT1 IRQ7
	1-2	LPT1 IRQ5
JP11	2-3	COM1 IRQ4
	1-2	COM1 IRQ3
JP13	2-3	36 MHz VGA clock
	1-2	VGA feature clock

### WY 386sx/20

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JP1	1-2	20 MHz
	2-3	16 MHz
JP5	1-2	Colour video
	2-3	Mono
JP6	1-2	Internal battery
	2-3	External battery
JP7	2-3	Power good from power supply
	1-2	From system board
J1		Reset
J2		Keylock/Power LED
J3		Speaker
J4		Speed button
J5		Speed LED

*Decision 386/25*

<i>Switch</i>	<i>Position</i>	<i>Function</i>
JMP1	In	Colour video
	Out	Mono
JMP3	Out	Disable Diagnostic Select
	In	Enable
JMP4	2-3	Disable CMOS discharge
	1-2	Enable
JMP6	2-3	64K cache
	1-2	128K cache
J9		External battery
J13		Keylock/Power LED
J14		Speaker
J15		Turbo switch
J16		Reset
J12		Speed LED

*Decision 486*

<i>Switch</i>	<i>Position</i>	<i>Function</i>
W1	2-3	Colour Display
	1-2	Mono
W2	Out	Reserved
W3		Reserved
W4		Reserved
J2		Keyboard
J3		Battery
J12		Reset
J13		Turbo button
J14		Turbo LED
J15		Speaker
J16		Power LED

*Decision 486-33(T)*

As for Decision 486

*Notes*



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## Yamashita

## Yellow Dragon

EFA?

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
9C	P5TX-AT	9C-00	TX Board

### *TX Board*

Vtech/PC Partner MB540N/Aristo AM 430TX

## Yukon

### *Award BIOS ID*

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
DC	P54C		

*Notes*





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## Zenith Data Systems

### BM 200

#### Revisions 1 & 2

<i>Switch</i>	<i>Position</i>	<i>Function</i>			
ST2	In	0 WS read, 1 WS write RAM			
	Out	1 WS read, 1 WS write RAM			
ST3	In	1 WS ROM			
	Out	2 WS ROM			
ST4	In	12 MHz, fast mode			
	Out	8 MHz, normal mode			
ST5	In	8 MHz bus			
	Out	6 MHz bus			
ST6	In	48 MHz system clock connected			
	Out	Disconnected			
ST7-9	<b>ST7</b>	<b>ST8</b>	<b>ST9</b>	<b>Memory</b>	
	In	In	In	2 x 256K	512K
	In	In	Out	4 x 256K	1 Mb
	Out	In	Out	2 x 1 Mb	2 Mb
ST7-9	In	Out	In	4 x 1 Mb	4 Mb
ST10					80/100 ns RAM
ST11	In	27512 ROM			
	Out	27256 ROM			
ST12	In	Colour display			
	Out	Mono			
ST13	In	Enable video I/O			
	Out	Disable			
ST14	In	1.8432 MHz clock connected			
	Out	Disconnected			
ST15	In	Enable 36 MHz VGA clock			
	Out	Disable			
ST16	In	Enable 25.175 MHz VGA clock			
	Out	Disable			

Switch	Position	Function			
ST17	In	Enable 28.322 MHz VGA clock			
	Out	Disable			
ST19	Out	Reserved			
ST20	Out	Reserved			
ST21	Out	Reserved			
ST22	In	16-bit BIOS ROM data			
	Out				
ST23	In	Disable VGA BIOS			
	Out	Enable			
ST24,25	<b>ST24</b>	<b>ST25</b>	<b>9 pin</b>	<b>25 pin</b>	<b>Parallel</b>
	Out	Out	370-377h	COM2	LPT2
	In	In	COM2	COM1	LPT1
	Out	In	390-397h	COM1	LPT1
	In	Out	COM2	COM1	LPT2
ST26-33	In	Default port address			
ST34	In	187ns floppy precomp			
	Out	125ns			
ST35	In	DRQ2 from floppy interface			
	Out	Disconnected			
ST36,37	In	Default clocks			
ST38		120/150ns DRAM			
ST39	In	IRQ3 on COM2			
	Out	IRQ3 disconnected			
ST40	In	Ground to 0v link			
ST41	In	16-bit video memory access			
ST42	In	IOCHRDY connected for HD			
	Out	Disconnected			
ST43	In	Enable VGA memory			
	Out	Disable			
ST44		IRQ14 only			
ST45		IRQ14 + ACTDISK			
ST46		LPT IRQ15			
ST47		LPT IRQ7			
ST48-53	In	COM2 Handshake signal definition			
ST54		Leave connected			
ST55		Leave disconnected			
ST56		Not assigned			

### BM 400 MCA

Switch	Position	Function	
SW1,2	<b>SW1</b>	<b>SW2</b>	<b>Volume</b>
	On	On	0%
	On	Off	50%
	Off	On	100%
SW3	Off	Boot from diskette	
	On	Disable diskette boot	

### BM 500 MCA

As for BM400 MCA.

### BM 600

Revisions 1 & 2

Switch	Position	Function
JP6-8	2-3	Coprocessor not installed
	1-2	Installed

Switch	Position	Function					
JP12	1-2	Relocate to FA0000-FDFFFF					
	2-3	Do not relocate					
JP13-16	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>Type</b>	<b>Block</b>	<b>RAM</b>
	2-3	2-3	1-2	1-2	512*9	A	2 Mb
	2-3	2-3	1-2	1-2	512*9	A+B	4 Mb
	1-2	1-2	1-2	1-2	512*9	A	6 Mb
	2-3	2-3	1-2	1-2	1 Mb*9	B	4 Mb
	1-2	1-2	2-3	2-3	1 Mb*9	A	4 Mb
1-2	1-2	2-3	2-3	1 Mb*9	A+B	8 Mb	

## SW1

Switch	Position	Function
S1-8	S1 & 4 On, others off	EPROM & I/O overlap – do not change

## SW2

Switch	Position	Function					
S1	On	25-pin=COM1, 9-pin=COM2					
	Off	Other way round					
S2	On	Disable COM1					
	Off	Enable					
S3	On	Disable COM2					
	Off	Enable					
S4	On	Disable LPT1					
	Off	Enable					
S5-7	Off	Printer port=LPT1					
	On	Printer port=LPT2					
S8	Off	BIOS in RAM					
	On	ROM BIOS					
S9	Off	Mono display					
	On	Colour					
S10	On	Disable 2 <sup>nd</sup> SIMM (B) Block					
	Off	Enable					
JP13-16	<b>JP13</b>	<b>JP14</b>	<b>JP15</b>	<b>JP16</b>	<b>Memory</b>		
	2-3	2-3	1-2	1-2	2 Mb Bank A		
	2-3	2-3	1-2	1-2	2 Mb Bank A + B		
	1-2	1-2	1-2	1-2	2 Mb Bank A, 4 Mb Bank B		

## Cheetah

Same as Packard Bell PB 680.

## Z148XT

## SW 402

Switch	Position	Function
8MDS	On	Disable 8 MHz
	Off	Enable (front panel switch)
8087	On	Copro not installed
	Off	Installed
60 HZ	On	60 Hz video refresh
	Off	50 Hz video refresh
PRDS	On	Disable parity checking
	Off	Enable
S1	On	1 WS (4.77 MHz only)
S2	On	2 WS
S3	On	3 WS (4.77 + 8 MHz)
S4	On	4 WS

Switch	Position	Function
S5	On	5 WS

SW 403

Switch	Position	Function	
FLIN	On	No floppy	
	Off	1 or more floppies	
2/1D	On	1 floppy	
	Off	2 floppies	
BTFL	<b>BTFL</b>	<b>BTWC</b>	<b>Boot Sequence</b>
BTWC	On	Off	HD
	Off	On	Floppy
	Off	Off	Manual from monitor

Z386/16 AT

Revisions 1 & 2

Switch	Position	Function
J201	1-2	80387 synchronous
	2-3	80387 asynchronous
J202	1-2	80287
	2-3	80387
J204	1-2	No coprocessor
	2-3	Coprocessor installed
J207	1-2	1 Mb memory card
	2-3	1 Mb memory card not used
J211	1-2	Low speed coprocessor
	2-3	High speed coprocessor

80387 Type	J201	J202	J204	J211
80287-10	2-3	1-2	2-3	2-3
80287-8	2-3	1-2	2-3	1-2
80387-16	2-3	2-3	2-3	2-3

Z-Station Campus

Same as Packard Bell PB 640.

Z-Station 510

Same as Packard Bell PB 470 (Thanks to Rudd Thornton).

Zida Technologies

Zida Technologies (Tomatoboads)

[www.zida.com](http://www.zida.com)

Award BIOS ID

The last two numbers of the BIOS part number.

Code	Motherboard	Code	Motherboard
1C-00	Tomato 4DPS-256K	BC-00	Tomato 5DTX
9C	5DHX (Tomato) rev 1.2	CC	Tomato 5DVX
9C-00	Tomato 5DVX	DC-00	Tomato 5STX

# Connectors

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Here are typical pinouts for a typical clone motherboard – yours may be different!

## Power LED and Keyboard Lock

Usually a 5-pin keyed BERG strip, which means one jumper is missing at the Power LED end

Pin	Description
1	LED Power
2	Key (No Connection)
3	Ground
4	Keyboard Lock
5	Ground

## Reset

2-pin BERG strip

Pin	Description
1	Ground
2	Reset Input

## Turbo LED

2-pin BERG strip

Pin	Description
1	LED Anode
2	LED Cathode

## Speaker

4-pin keyed BERG strip for an external 2-inch, 8-ohm speaker

Pin	Description
1	Speaker Data Out
2	Ground
3	Ground
4	+5 VDC

## HD Activity LED

4-pin keyed BERG strip

Pin	Description
1	LED Anode (+)

Pin	Description
2	LED Cathode (-)
3	LED Cathode (-)
4	LED Anode (+)

**Keyboard**

5-pin, circular-type DIN socket, or 6-pin Mini-DIN.

Pin	Description
1	Clock Signal
2	Data Signal
3	Not Used
4	Ground
5	+5V Fused VDC

Pin	Description
1	Data Signal
2	Reserved (N/C)
3	Ground
4	+5Volt DC
5	Clock signal
6	N/C

**Power Supply (PS8 and PS9)**

6-pin AT standard power connectors. Most power supplies have two six-wire connectors, two of the wires on each connector are black. Align the two black wires on each connector in the middle.

Pin	Connector PS8	Connector PS9
1	Power Good	Ground
2	+5 VDC	Ground
3	+12 VDC	-5 VDC
4	-12 VDC	+5 VDC
5	Ground	+5 VDC
6	Ground	+5 VDC

**Parallel Port**

2x13-pin male header.

Pin	Description	Pin	Description
1	STROBE	14	AUTO FEED XT
2	Data Bit 0	15	ERROR
3	Data Bit 1	16	INIT
4	Data Bit 2	17	SLCT IN
5	Data Bit 3	18	Ground
6	Data Bit 4	19	Ground
7	Data Bit 5	20	Ground
8	Data Bit 6	21	Ground
9	Data Bit 7	22	Ground
10	ACK	23	Ground
11	BUSY	24	Ground
12	PE	25	Ground
13	SLCT	26	No Connection

## Serial Port

2x5-pin male headers, may be wired in one of two ways. The first arrangement is more modern.

1	3	5	7	9
2	4	6	8	10
1	2	3	4	5
6	7	8	9	10

Pin	Description	Pin	Description
1	Carrier Detect (CD)	6	Receive Data (RXD)
2	Transmit Data (TXD)	7	Data Terminal Ready (DTR)
3	Signal Ground	8	Data Set Ready (DSR)
4	Request To Send (RTS)	9	Clear To Send (CTS)
5	Ring Indicator (RI)	10	No Connection

Pin	Description	Pin	Description
1	Carrier Detect (CD)	6	Data Set Ready (DSR)
2	Receive Data (RXD)	7	Request To Send (RTS)
3	Transmit Data (TXD)	8	Clear To Send (CTS)
4	Data Terminal Ready (DTR)	9	Ring Indicator (RI)
5	Signal Ground	10	No Connection

## Mouse

Pin	Description
1	Mouse Data Signal
2	Reserved (N/C)
3	Ground
4	+5Volt DC
5	Mouse Clock signal
6	N/C

*Notes*