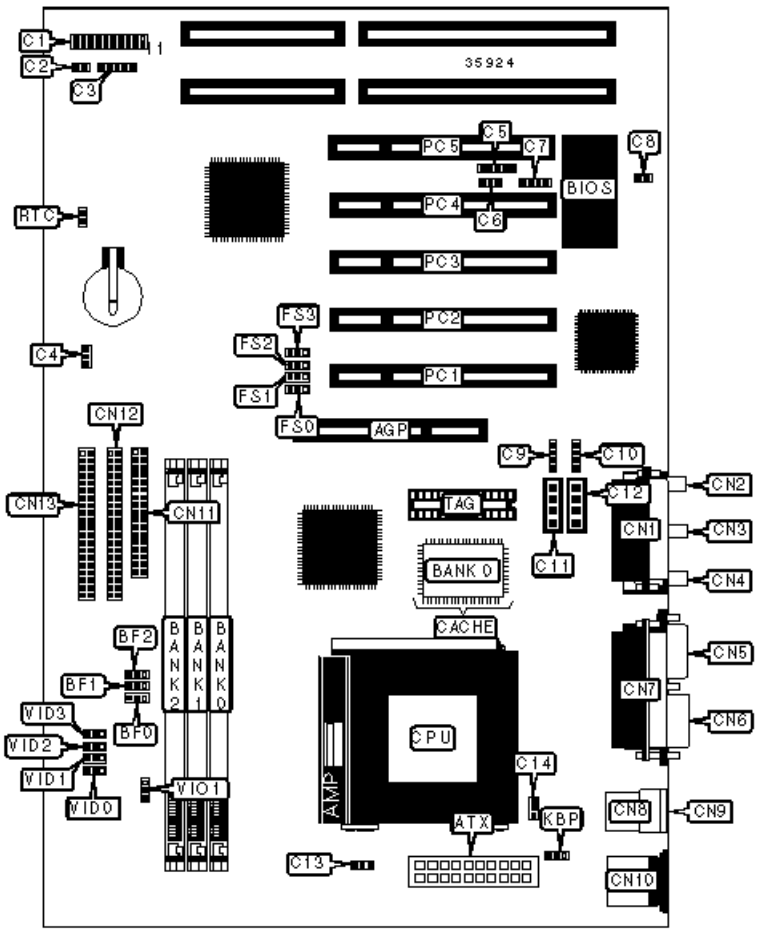
ASUS COMPUTER INTERNATIONAL

P5A (REV. 1.04)

Device Type	Mainboard
Processor	CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/CX MII/IBM MII/ AM K5/AM K6/AM K6-2/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/200/233/266/300/333/350MHz
Chip Set	ALI Aladdin V
Maximum Onboard Memory	768MB (SDRAM supported)
Audio Chip Set	ESS
Cache	512KB
BIOS	Unidentified
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (5), floppy drive interface, game/MIDI port, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector, AGP slot, line in, line out, microphone in, audio in - CD-ROMs (2), wake on LAN connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
AGP slot	AGP	Audio in - CD-ROM	C12
ATX power connector	ATX	CPU fan power	C13
Turbo LED	C1/pins 2 & 3	Power fan	C14

Soft off power supply	C1/pins 6 & 7	Game/MIDI port	CN1
Reset switch	C1/pins 9 & 10	Microphone in	CN2
Power LED & keylock	C1/pins 11 - 15	Line in	CN3
Speaker	C1/pins 17 - 20	Line out	CN4
IDE interface LED	C2	Serial port 2	CN5
IR connector	C3	Serial port 1	CN6
Chassis fan power	C4	Parallel port	CN7
SMBus connector	C5	USB connector 1	CN8
Wake on LAN connector	C6	USB connector 2	CN9
Chassis intrusion connector	C7	PS/2 mouse port	CN10
Temperature sensor	C8	Floppy drive interface	CN11
Auxiliary in connector	C9	IDE interface 2	CN12
Modem connector	C10	IDE interface 1	CN13
Audio in - CD-ROM	C11	32-bit PCI slots	PC1 - PC5

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	Keyboard power disabled	KBP	Pins 1 & 2 closed
	Keyboard power enabled	KBP	Pins 2 & 3 closed
»	CMOS memory normal operation	RTC	Open
	CMOS memory clear	RTC	Closed

DIMM CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**Bank 2**
8MB	(1) 1M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 2M x 64	None	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64

32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 4M x 64	None	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 8M x 64	None	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 16M x 64	None	None
164MB	(1) 16M x 64	(1) 1M x 64	None
144MB	(1) 16M x 64	(1) 1M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64	None
160MB	(1) 16M x 64	(1) 2M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64	None
192MB	(1) 16M x 64	(1) 4M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
192MB	(1) 8M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 32M x 64	None	None
264MB	(1) 32M x 64	(1) 1M x 64	None
272MB	(1) 32M x 64	(1) 1M x 64	(1) 1M x 64
272MB	(1) 32M x 64	(1) 2M x 64	None
288MB	(1) 32M x 64	(1) 2M x 64	(1) 2M x 64
288MB	(1) 32M x 64	(1) 4M x 64	None
320MB	(1) 32M x 64	(1) 4M x 64	(1) 4M x 64
320MB	(1) 32M x 64	(1) 8M x 64	None

384MB	(1) 32M x 64	(1) 8M x 64	(1) 8M x 64
384MB	(1) 32M x 64	(1) 16M x 64	None
384MB	(1) 16M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 16M x 64	(1) 16M x 64
512MB	(1) 32M x 64	(1) 32M x 64	None
768MB	(1) 32M x 64	(1) 32M x 64	(1) 32M x 64
Note: Board accepts SDRAM memory.			

DIMM/AGP VOLTAGE CONFIGURATION		
	Voltage	**VIO1**
»	3.5v	Pins 1 & 2 closed
	3.6v	Pins 2 & 3 closed

CACHE CONFIGURATION		
Size	**Bank 0**	**TAG**
512KB	(1) 64K x 64	Unidentified

CPU SPEED SELECTION (CX 6X86L)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
166MHz	66MHz	2x	2 & 3	1 & 2	Open
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (CX 6X86L, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IBM 6X86L)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
166MHz	66MHz	2x	2 & 3	1 & 2	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86L, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
166MHz	60MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	2.5x	2 & 3	2 & 3	Open
233MHz	66MHz	3x	1 & 2	2 & 3	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX 6X86MX, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
166MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
166MHz	60MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	2.5x	2 & 3	2 & 3	Open
233MHz	66MHz	3x	1 & 2	2 & 3	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM 6X86MX, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**

166MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII)

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
300MHz	66MHz	3.5x	1 & 2	1 & 2	Open
300MHz	75MHz	3x	1 & 2	2 & 3	Open
333MHz	83MHz	3x	1 & 2	2 & 3	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM MII, CON'T)

CPU speed	Clock speed	Multiplier	FS0	FS1	FS2	FS3
300MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3
300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	2 & 3
333MHz	83MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (IBM MII)

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
300MHz	66MHz	3.5x	1 & 2	1 & 2	Open
300MHz	75MHz	3x	1 & 2	2 & 3	Open
333MHz	83MHz	3x	1 & 2	2 & 3	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (CX MII, CON'T)

CPU speed	Clock speed	Multiplier	FS0	FS1	FS2	FS3
300MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3

300MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	2 & 3
333MHz	83MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5)

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
90MHz	60MHz	1.5x	1 & 2	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	Open
120MHz	60MHz	1.5x	1 & 2	1 & 2	Open
133MHz	66MHz	1.5x	1 & 2	1 & 2	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K5, CON'T)

CPU speed	Clock speed	Multiplier	FS0	FS1	FS2	FS3
90MHz	60MHz	1.5x	2 & 3	2 & 3	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	2 & 3
120MHz	60MHz	1.5x	2 & 3	2 & 3	2 & 3	2 & 3
133MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6)

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	3x	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	Open
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3
300MHz	66MHz	4.5x	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3
266MHz	66MHz	4x	1 & 2	2 & 3	2 & 3	2 & 3
300MHz	66MHz	4.5x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
266MHz	66MHz	4x	2 & 3	1 & 2	2 & 3
300MHz	100MHz	3x	1 & 2	2 & 3	Open
333MHz	95MHz	3.5x	1 & 2	1 & 2	Open
350MHz	100MHz	3.5x	1 & 2	1 & 2	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (AM K6-2, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
266MHz	66MHz	4x	1 & 2	2 & 3	2 & 3	2 & 3
300MHz	100MHz	3x	1 & 2	1 & 2	1 & 2	2 & 3
333MHz	95MHz	3.5x	2 & 3	1 & 2	1 & 2	2 & 3
350MHz	100MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
90MHz	60MHz	1.5x	1 & 2	1 & 2	Open
100MHz	66MHz	1.5x	1 & 2	1 & 2	Open

120MHz	60MHz	2x	2 & 3	1 & 2	Open
133MHz	66MHz	2x	2 & 3	1 & 2	Open
150MHz	60MHz	2.5x	2 & 3	2 & 3	Open
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL, CON'T)

CPU speed	Clock speed	Multiplier	FS0	FS1	FS2	FS3
90MHz	60MHz	1.5x	2 & 3	2 & 3	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	2 & 3
120MHz	60MHz	2x	2 & 3	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	2 & 3
150MHz	60MHz	2.5x	2 & 3	2 & 3	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX)

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
166MHz	66MHz	2.5x	2 & 3	2 & 3	Open
200MHz	66MHz	3x	1 & 2	2 & 3	Open
233MHz	66MHz	3.5x	1 & 2	1 & 2	Open

Note: Pins designated should be in the closed position.

CPU SPEED SELECTION (INTEL MMX, CON'T)

CPU speed	Clock speed	Multiplier	FS0	FS1	FS2	FS3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (SINGLE)				
Voltage	**VID0**	**VID1**	**VID2**	**VID3**
3.4v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
3.5v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU VOLTAGE SELECTION (DUAL)				
Voltage	**VID0**	**VID1**	**VID2**	**VID3**
2.2v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
2.8v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
2.9v	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
3.2v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed