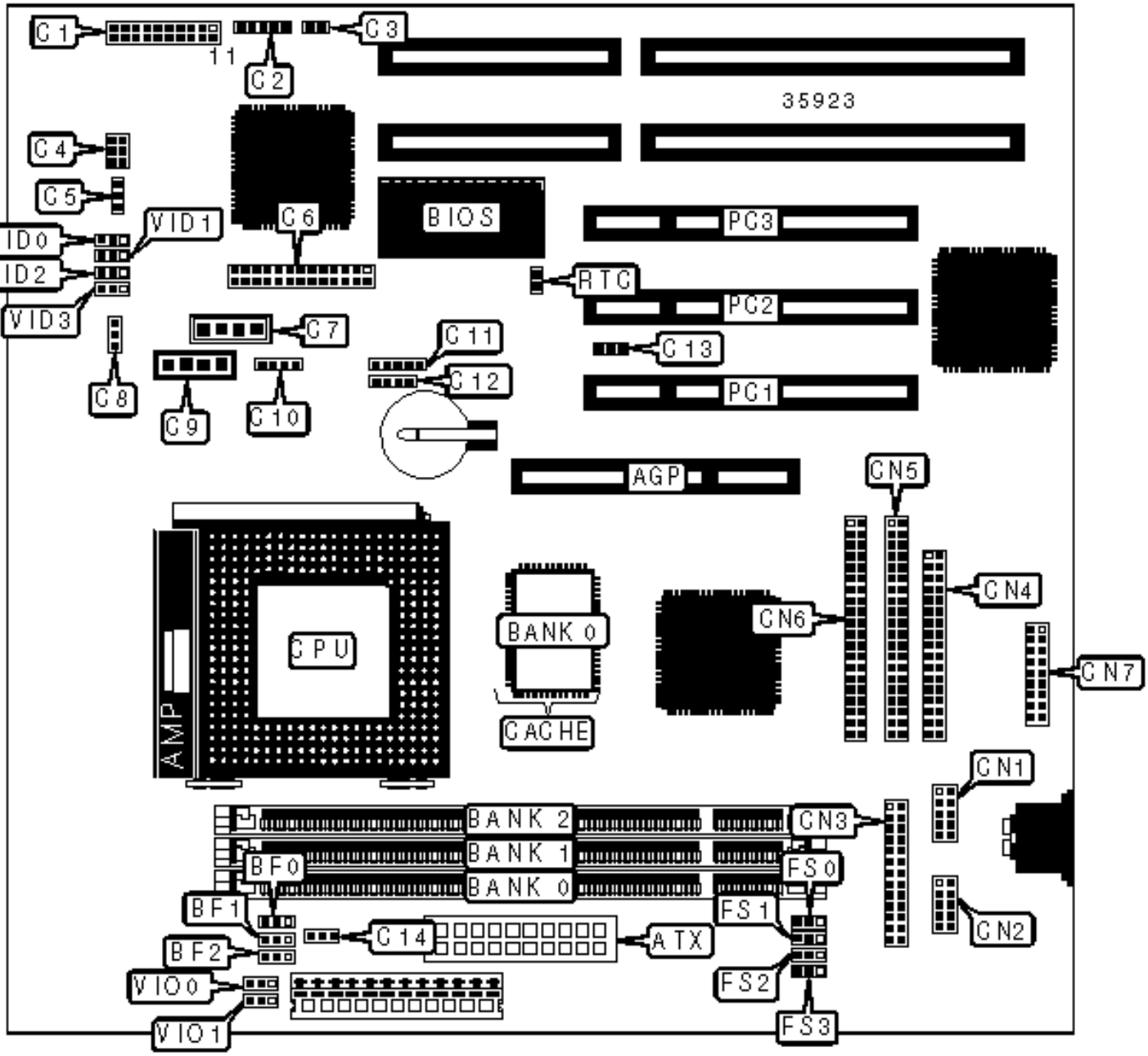
ASUS COMPUTER INTERNATIONAL

P5A-B (REV. 1.03)

Configuration



CONNECTIONS

Purpose	Location	Purpose	Location
AGP slot	AGP	Audio in – CD-ROM	C9
ATX power connector	ATX	Auxiliary in connector	C10
Turbo LED	C1/pins 2 & 3	SMBus connector	C11
Soft off power supply	C1/pins 6 & 7	Chassis intrusion connector	C12
Reset switch	C1/pins 9 & 10	Wake on LAN connector	C13
Power LED & keylock	C1/pins 11 – 15	Power fan	C14
Speaker	C1/pins 17 - 20	Serial port 1	CN1
IR connector	C2	Serial port 2	CN2
IDE interface LED	C3	Parallel port	CN3
Digital audio connector	C4	Floppy drive interface	CN4
Chassis fan power	C5	IDE interface 2	CN5
Audio connector	C6	IDE interface 1	CN6
Audio in – CD-ROM	C7	PS/2 mouse, USB, IR interface	CN7
CPU fan power	C8	32-bit PCI slots	PC1 – PC3

USER CONFIGURABLE SETTINGS

Function		Label	Position
»	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

DIMM CONFIGURATION (CON'T)

Size	Bank 0	Bank 1	Bank 2
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	VIO0	VIO1
»	3.5v	Open	Pins 1 & 2 closed
	3.6v	Open	Pins 2 & 3 closed
	3.8v	Pins 1 & 2 closed	Open
	4.0v	Pins 2 & 3 closed	Open

CACHE CONFIGURATION

Size	Bank 0
512KB	(1) 64K x 64
1MB	(1) 128K x 64

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 (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 (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 (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 (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