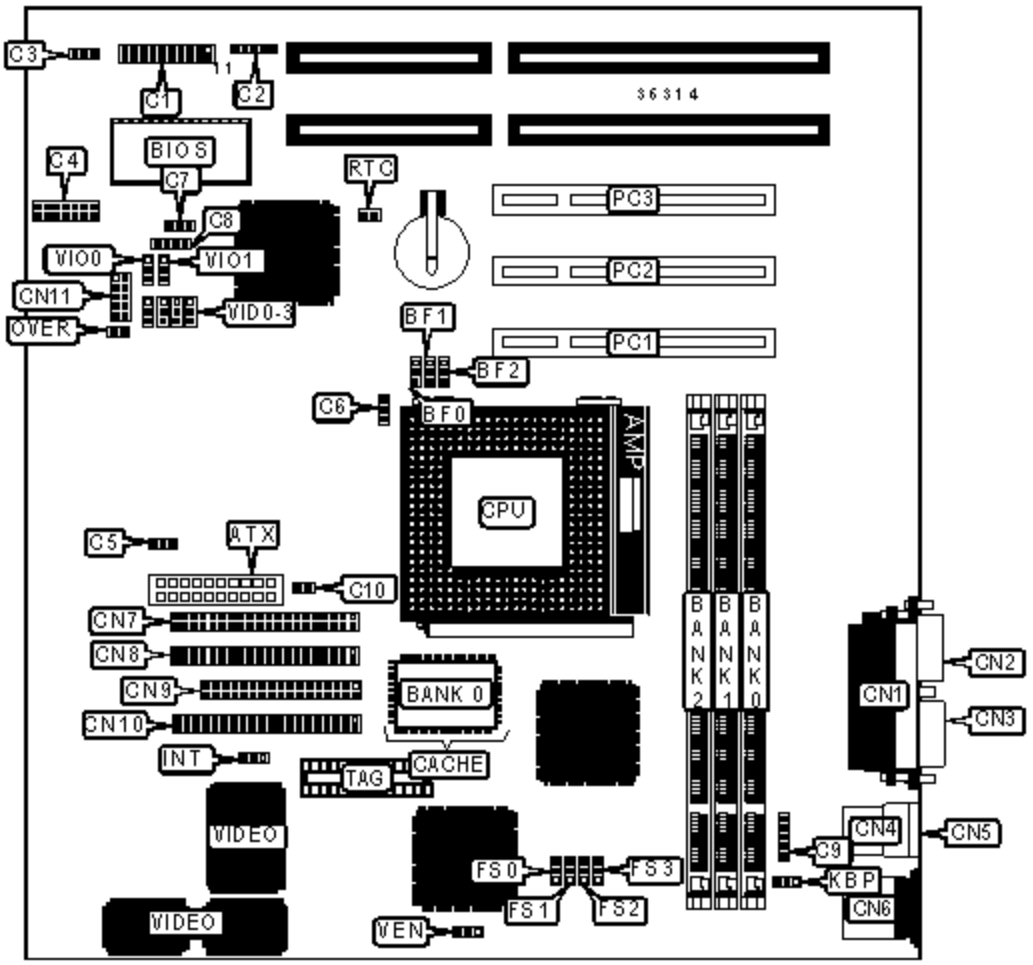
ASUS COMPUTER INTERNATIONAL

P5A-VM (REV. 1.02)

Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/ CX MII/IBM MII/AM K5/AM K6/AM K6-2/IDT/Pentium/Pentium MMX
Processor Speed	100/133/166/200/233/266/300/333/350/366/380/400/450MHz
Chip Set	SIS 530
Video Chip Set	SIS
Maximum Onboard Memory	768MB (SDRAM & PC100 supported)
Maximum Video Memory	8MB
Audio Chip Set	Creative
Cache	512/1024KB
BIOS	Unidentified
Dimensions	305mm x 244mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VGA port, IR connector, USB connectors (2), ATX power connector, wake on LAN connector



CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	SMB connector	C9
Turbo LED	C1/pins 2 & 3	Thermal sensor connector	C10
Green PC connector	C1/pins 4 & 5	Parallel port	CN1

Soft off power supply	C1/pins 6 & 7	VGA port	CN2
Reset switch	C1/pins 9 & 10	Serial port 1	CN3
Power LED & keylock	C1/pins 11 - 15	USB connector 1	CN4
Speaker	C1/pins 17 - 20	USB connector 2	CN5
IR connector	C2	PS/2 mouse port	CN6
Chassis fan power	C3	Floppy drive interface	CN7
V panel connector	C4	IDE interface 2	CN8
Power fan power	C5	IDE interface 1	CN9
CPU fan power	C6	AMC connector	CN10
Wake on LAN connector	C7	Serial port 2	CN11
Chassis intrusion connector	C8	32-bit PCI slots	PC1 - PC3

USER CONFIGURABLE SETTINGS			
Function		**Label**	**Position**
»	VGA IRQ enabled	INT	Pins 2 & 3 closed
	VGA IRQ disabled	INT	Pins 1 & 2 closed
»	Keyboard power on disabled	KBP	Pins 1 & 2 closed
	Keyboard power on enabled	KBP	Pins 2 & 3 closed
	Voltage increased by .2v disabled	OVER	Open
	Voltage increased by .2v enabled	OVER	Closed
»	CMOS memory normal operation	RTC	Open
	CMOS memory clear	RTC	Closed
»	On board video enabled	VEN	Pins 2 & 3 closed
	On board video disabled	VEN	Pins 1 & 2 closed
	Voltage select 3.5	VIO0	Pins 1 & 2 closed
	Voltage select 3.6	VIO0	Pins 2 & 3 closed
	Voltage select 3.8	VIO1	Pins 1 & 2 closed

	Voltage select 4.0	VIO1	Pins 2 & 3 closed

DIMM CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**Bank 2**
8MB	(1) 1M x 64	None	None
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 1M x 64	(1) 1M x 64
32MB	(1) 2M x 64	(1) 2M x 64	None
40MB	(1) 4M X 64	(1) 1M X 64	NONE
40MB	(1) 2M x 64	(1) 2M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 1M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	(1) 2M x 64	(1) 2M x 64
56MB	(1) 4M x 64	(1) 2M x 64	(1) 1M x 64
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 2M x 64	(1) 2M x 64
64MB	(1) 4M x 64	(1) 4M x 64	None
72MB	(1) 8M x 64	(1) 1M x 64	None
88MB	(1) 8M x 64	(1) 2M x 64	(1) 1M x 64
96MB	(1) 8M x 64	(1) 2M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 4M x 64	(1) 4M x 64	(1) 4M x 64
104MB	(1) 8M x 64	(1) 4M x 64	(1) 1M x 64
112MB	(1) 8M x 64	(1) 4M x 64	(1) 2M x 64
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 4M x 64	(1) 4M x 64
128MB	(1) 8M x 64	(1) 8M 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
160MB	(1) 8M x 64	(1) 8M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64	None
224MB	(1) 16M x 64	(1) 8M x 64	(1) 4M x 64
256MB	(1) 32M x 64	None	None
256MB	(1) 16M x 64	(1) 8M x 64	(1) 8M x 64
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
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 & PC100 memory.			

CACHE CONFIGURATION		
Size	**Bank 0**	**TAG**
512KB	(1) 64K x 64	Unidentified
1MB	(1) 128K x 64	Unidentified

VIDEO MEMORY CONFIGURATION
Note: Video memory is factory installed and is not configurable.

CPU SPEED SELECTION (CX 6X86)

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 6X86, 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 6X86)					
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 6X86, 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 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
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
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

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
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**
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**
100MHz	66MHz	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**
100MHz	66MHz	1.5x	1 & 2	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
366MHz	66MHz	5.5x	1 & 2	1 & 2	2 & 3
380MHz	100MHz	4x	2 & 3	1 & 2	2 & 3
400MHz	100MHz	4x	2 & 3	1 & 2	2 & 3
450MHz	100MHz	4.5x	2 & 3	2 & 3	2 & 3

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	2 & 3	2 & 3	1 & 2
333MHz	95MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3
350MHz	100MHz	3.5x	1 & 2	2 & 3	2 & 3	1 & 2
366MHz	66MHz	5.5x	1 & 2	2 & 3	2 & 3	2 & 3
380MHz	100MHz	4x	1 & 2	1 & 2	1 & 2	2 & 3
400MHz	100MHz	4x	1 & 2	2 & 3	2 & 3	1 & 2
450MHz	100MHz	4.5x	1 & 2	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (IDT WIN CHIP)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**
200MHz	66MHz	3x	1 & 2	2 & 3	Open
225MHz	75MHz	3x	1 & 2	2 & 3	Open
240MHz	60MHz	4x	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.					

CPU SPEED SELECTION (IDT WIN CHIP, CON'T)						
CPU speed	**Clock speed**	**Multiplier**	**FS0**	**FS1**	**FS2**	**FS3**
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	2 & 3
225MHz	75MHz	3x	1 & 2	1 & 2	2 & 3	2 & 3
240MHz	60MHz	4x	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.						

CPU SPEED SELECTION (INTEL)					
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**

CPU speed	Clock speed	Multiplier	BF0	BF1	BF2
100MHz	66MHz	1.5x	1 & 2	1 & 2	Open
133MHz	66MHz	2x	2 & 3	1 & 2	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
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	2 & 3
133MHz	66MHz	2x	1 & 2	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 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
3.5v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

CPU VOLTAGE SELECTION (DUAL)				
Voltage	**VID0**	**VID1**	**VID2**	**VID3**
2.2v	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
2.3v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed
2.8v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
2.9v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
3.2v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed