ASUS COMPUTER INTERNATIONAL
SP98-N (REV. 1.02)

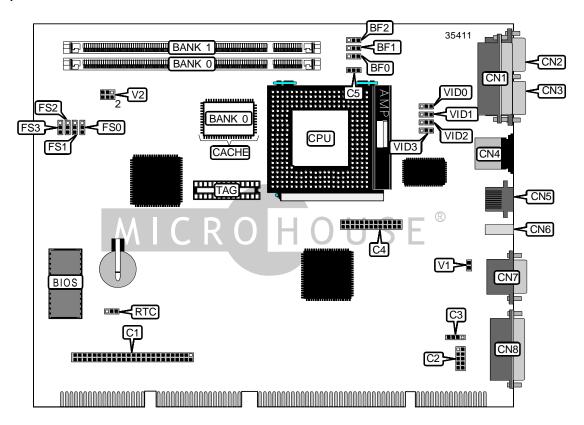|	
Device Type	Mainboard
Processor	CX 6X86/IBM 6X86/CX 6X86L/IBM 6X86L/CX 686MX/IBM 6X86MX/ AM K5/AM K6/Pentium/Pentium MMX
Processor Speed	75/90/100/120/133/150/166/200/233MHz
Chip Set	SIS
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO & SDRAM supported)
Maximum Video Memory	None
Cache	512KB
BIOS	Unidentified
Dimensions	254mm x 218mm
I/O Options	Ethernet 10BaseT connector, floppy drive interface, game/MIDI port, parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, VGA port
NPU Options	None

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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
CD-ROM connector	C1	Serial port 2	CN3
Audio connector	C2	PS/2 mouse port	CN4
Speaker	C3	Ethernet 10BaseT connector	CN5
VGA feature connector	C4	LAN LEDs	CN6
CPU fan power	C5	VGA port	CN7
Parallel port	CN1	Game/MIDI port	CN8
Serial port 1	CN2		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
PCI frequency select synchronous	FS3	Pins 1 & 2 closed
PCI frequency select asynchronous	FS3	Pins 2 & 3 closed
í CMOS memory normal operation	RTC	Pins 1 & 2 closed
CMOS memory clear	RTC	Pins 2 & 3 closed

DIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(1) 1M x 64	None
16MB	(1) 2M x 64	None
16MB	(1) 1M x 64	(1) 1M x 64
24MB	(1) 2M x 64	(1) 1M x 64
32MB	(1) 4M x 64	None
32MB	(1) 2M x 64	(1) 2M x 64
40MB	(1) 4M x 64	(1) 1M x 64
48MB	(1) 4M x 64	(1) 2M x 64
64MB	(1) 8M x 64	None
64MB	(1) 4M x 64	(1) 4M x 64
72MB	(1) 8M x 64	(1) 1M x 64
80MB	(1) 8M x 64	(1) 2M x 64
96MB	(1) 8M x 64	(1) 4M x 64
128MB	(1) 16M x 64	None
128MB	(1) 8M x 64	(1) 8M x 64
136MB	(1) 16M x 64	(1) 1M x 64
144MB	(1) 16M x 64	(1) 2M x 64
160MB	(1) 16M x 64	(1) 4M x 64
192MB	(1) 16M x 64	(1) 8M x 64
256MB	(1) 16M x 64	(1) 16M x 64
Note: Board accepts SDRAM memory.		

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

CPU SPEED SELECTION (CX 6X86)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (IBM 6X86)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (CX 6X86L)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (IBM 6X86L)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	75MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (CX 6X86MX)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (IBM 6X86MX)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
200MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

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CPU SPEED SELECTION (AM K5)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
75MHz	50MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
120MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
133MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (AM K6)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3	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**	**FS0**	**FS1**	**FS2**
75MHz	50MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3	2 & 3
90MHz	60MHz	1.5x	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	2 & 3
100MHz	66MHz	1.5x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3
120MHz	60MHz	2x	1 & 2	1 & 2	2 & 3	1 & 2	2 & 3	2 & 3
133MHz	66MHz	2x	1 & 2	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3
150MHz	60MHz	2.5x	1 & 2	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.								

CPU SPEED SELECTION (INTEL MMX)								
CPU speed	**Clock speed**	**Multiplier**	**BF0**	**BF1**	**BF2**	**FS0**	**FS1**	**FS2**
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	2 & 3	1 & 2	2 & 3
200MHz	66MHz	3x	1 & 2	2 & 3	1 & 2	2 & 3	1 & 2	2 & 3
233MHz	66MHz	3.5x	1 & 2	1 & 2	1 & 2	2 & 3	1 & 2	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

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CPU VOLTAGE SELECTION (DUAL)				
Voltage	**VID0**	**VID1**	**VID2**	**VID3**
2.1v	Pins 1 & 2 closed	Pins 2 & 3 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
3.3v	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 1 & 2 closed

ON BOARD VIDEO SELECTION		
Setting	**V1**	**V2**
í Enabled	Open	Pins 2 & 4 closed
Disabled	Closed	Pins 4 & 6 closed