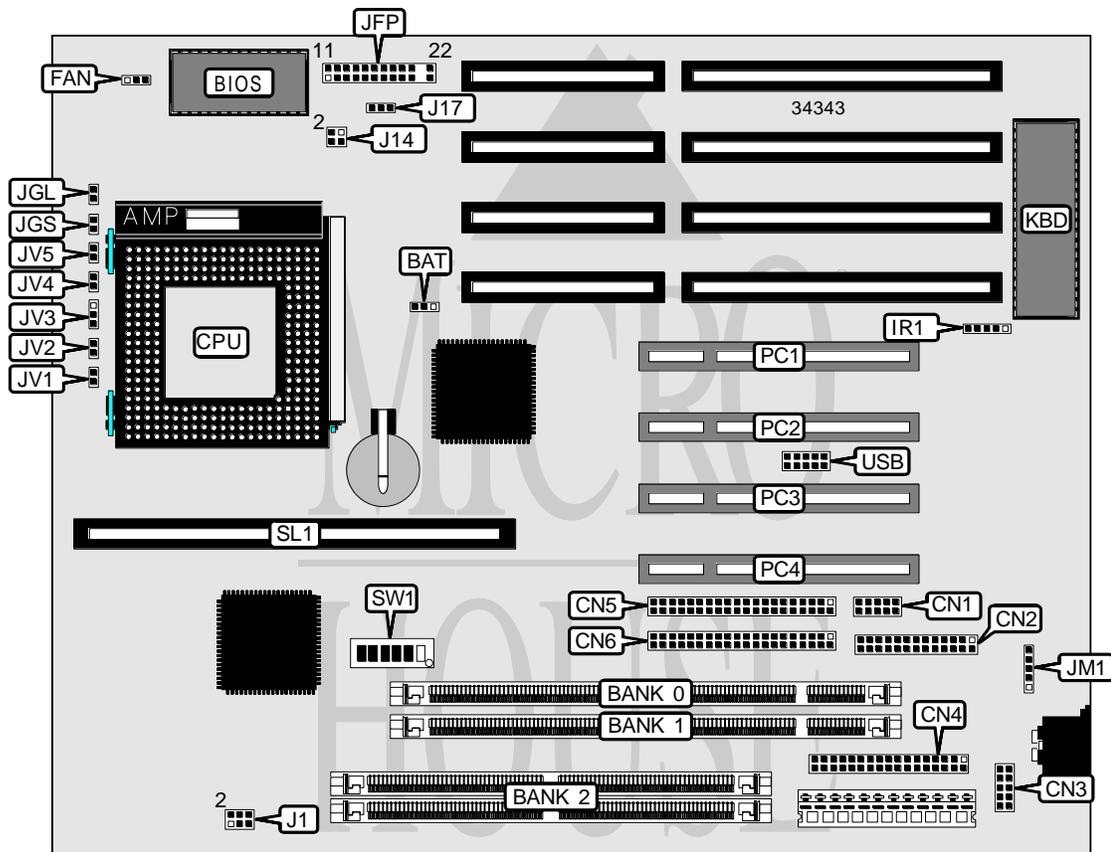


MICRO-STAR INTERNATIONAL CO., LTD.

MS - 5 1 4 5

Processor	CX M1/AM K5/AM K6/Pentium
Processor Speed	75/90/100/120/133/150/166/180/200/233MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	256MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	265mm x 220mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), cache slot, IR connector, USB connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 1	CN1	Turbo LED	JFP/pins 12 & 13
Parallel port	CN2	Reset switch	JFP/pins 19 & 20
Serial port 2	CN3	IDE interface LED	JFP/pins 21 & 22
Floppy drive interface	CN4	Green PC LED	JGL
IDE interface 2	CN5	Green PC connector	JGS
IDE interface 1	CN6	PS/2 mouse interface	JM1
Chassis fan power	FAN	32-bit PCI slots	PC1 – PC4
IR connector	IR1	Cache slot	SL1
Power LED & keylock	JFP/pins 1 - 5	USB connector	USB
Speaker	JFP/pins 7 - 10		

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í CMOS memory normal operation	BAT	Pins 1 & 2 closed
CMOS memory clear	BAT	Pins 2 & 3 closed
í Factory configured - do not alter	J17	Unidentified

DIMM/DRAM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
8MB	(1) 1M x 64	None	None
12MB	(1) 1M x 64	None	(2) 512K x 36
16MB	(1) 2M x 64	None	None
16MB	(1) 1M x 64	(1) 1M x 64	None
16MB	(1) 1M x 64	None	(2) 1M x 36
20MB	(1) 2M x 64	None	(2) 512K x 36
24MB	(1) 2M x 64	(1) 1M x 64	None
24MB	(1) 1M x 64	None	(2) 2M x 36
32MB	(1) 4M x 64	None	None
32MB	(1) 2M x 64	(1) 2M x 64	None
32MB	(1) 2M x 64	None	(2) 2M x 36
36MB	(1) 4M x 64	None	(2) 512K x 36
40MB	(1) 4M x 64	(1) 1M x 64	None
40MB	(1) 1M x 64	None	(2) 4M x 36
40MB	(1) 4M x 64	None	(2) 1M x 36
48MB	(1) 4M x 64	(1) 2M x 64	None
48MB	(1) 2M x 64	None	(2) 4M x 36
48MB	(1) 4M x 64	None	(2) 2M x 36
64MB	(1) 8M x 64	None	None
64MB	(1) 4M x 64	(1) 4M x 64	None
64MB	(1) 4M x 64	None	(2) 4M x 36
68MB	(1) 8M x 64	None	(2) 512K x 36

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DIMM/DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
72MB	(1) 8M x 64	(1) 1M x 64	None
72MB	(1) 1M x 64	None	(2) 8M x 36
72MB	(1) 8M x 64	None	(2) 1M x 36
80MB	(1) 8M x 64	(1) 2M x 64	None
80MB	(1) 2M x 64	None	(2) 8M x 36
80MB	(1) 8M x 64	None	(2) 2M x 36
96MB	(1) 8M x 64	(1) 4M x 64	None
96MB	(1) 8M x 64	None	(2) 4M x 36
96MB	(1) 4M x 64	None	(2) 8M x 36
128MB	(1) 16M x 64	None	None
128MB	(1) 8M x 64	(1) 8M x 64	None
128MB	(1) 8M x 64	None	(2) 8M x 36
132MB	(1) 16M x 64	None	(2) 512K x 36
136MB	(1) 1M x 64	None	(2) 16M x 36
136MB	(1) 16M x 64	None	(2) 1M x 36
144MB	(1) 2M x 64	None	(2) 16M x 36
144MB	(1) 16M x 64	None	(2) 2M x 36
160MB	(1) 4M x 64	None	(2) 16M x 36
160MB	(1) 16M x 64	None	(2) 4M x 36
192MB	(1) 8M x 64	None	(2) 16M x 36
192MB	(1) 16M x 64	None	(2) 8M x 36
256MB	(1) 16M x 64	(1) 16M x 64	None
256MB	(1) 16M x 64	None	(2) 16M x 36

Note: Board accepts EDO memory. Banks 0 & 1 are interchangeable. Board does not accept SDRAM.

DIMM VOLTAGE CONFIGURATION	
Voltage	J1
3.3v	Pins 1 & 3, 2 & 4 closed
5v	Pins 3 & 5, 4 & 6 closed

CACHE CONFIGURATION	
Size	SL1
256KB	256KB module installed
512KB	512KB module installed

CPU SPEED SELECTION (CYRIX)								
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
120MHz	50MHz	2x	On	On	Off	On	Off	Off
133MHz	55MHz	2x	Off	On	Off	On	Off	Off
150MHz	60MHz	2x	On	Off	Off	On	Off	Off
166MHz	66MHz	2x	Off	Off	Off	On	Off	Off

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CPU SPEED SELECTION (AMD K5)								
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
75MHz	50MHz	1.5x	On	On	Off	Off	Off	Off
90MHz	60MHz	1.5x	On	Off	Off	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
133MHz	66MHz	2x	Off	Off	Off	On	Off	Off
166MHz	66MHz	2.5x	Off	Off	Off	On	On	Off

CPU SPEED SELECTION (AMD K6)								
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
166MHz	66MHz	2.5x	Off	Off	Off	On	On	Off
200MHz	66MHz	3x	Off	Off	Off	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off	Off	Off	Off

CPU SPEED SELECTION (INTEL)								
CPU speed	Clock speed	Multiplier	SW1/1	SW1/2	SW1/3	SW1/4	SW1/5	SW1/6
75MHz	50MHz	1.5x	On	On	Off	Off	Off	Off
90MHz	60MHz	1.5x	On	Off	Off	Off	Off	Off
100MHz	66MHz	1.5x	Off	Off	Off	Off	Off	Off
120MHz	60MHz	2x	On	Off	Off	On	Off	Off
133MHz	66MHz	2x	Off	Off	Off	On	Off	Off
150MHz	60MHz	2.5x	On	Off	Off	On	On	Off
166MHz	66MHz	2.5x	Off	Off	Off	On	On	Off
180MHz	60MHz	3x	On	Off	Off	Off	On	Off
200MHz	66MHz	3x	Off	Off	Off	Off	On	Off
233MHz	66MHz	3.5x	Off	Off	Off	Off	Off	Off

CPU VOLTAGE SELECTION (SINGLE)						
Voltage	J14	JV1	JV2	JV3	JV4	JV5
3.3v	1 & 3, 2 & 4	Closed	Closed	2 & 3	Closed	Closed
3.5v	1 & 3, 2 & 4	Open	Closed	2 & 3	Closed	Closed

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION (DUAL)							
Voltage	V core	J14	JV1	JV2	JV3	JV4	JV5
3.3v	2.8v	Open	Closed	Open	2 & 3	Open	Open
3.3v	2.9v	Open	Open	Open	2 & 3	Open	Open
3.3v	3.2v	Open	Closed	Closed	2 & 3	Open	Open

Note: Pins designated should be in the closed position.