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P 5 M M A 9 8

Processor	CX 6X86/IBM 6X86/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	512KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit PCI slots (4), floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector
NPU Options	None
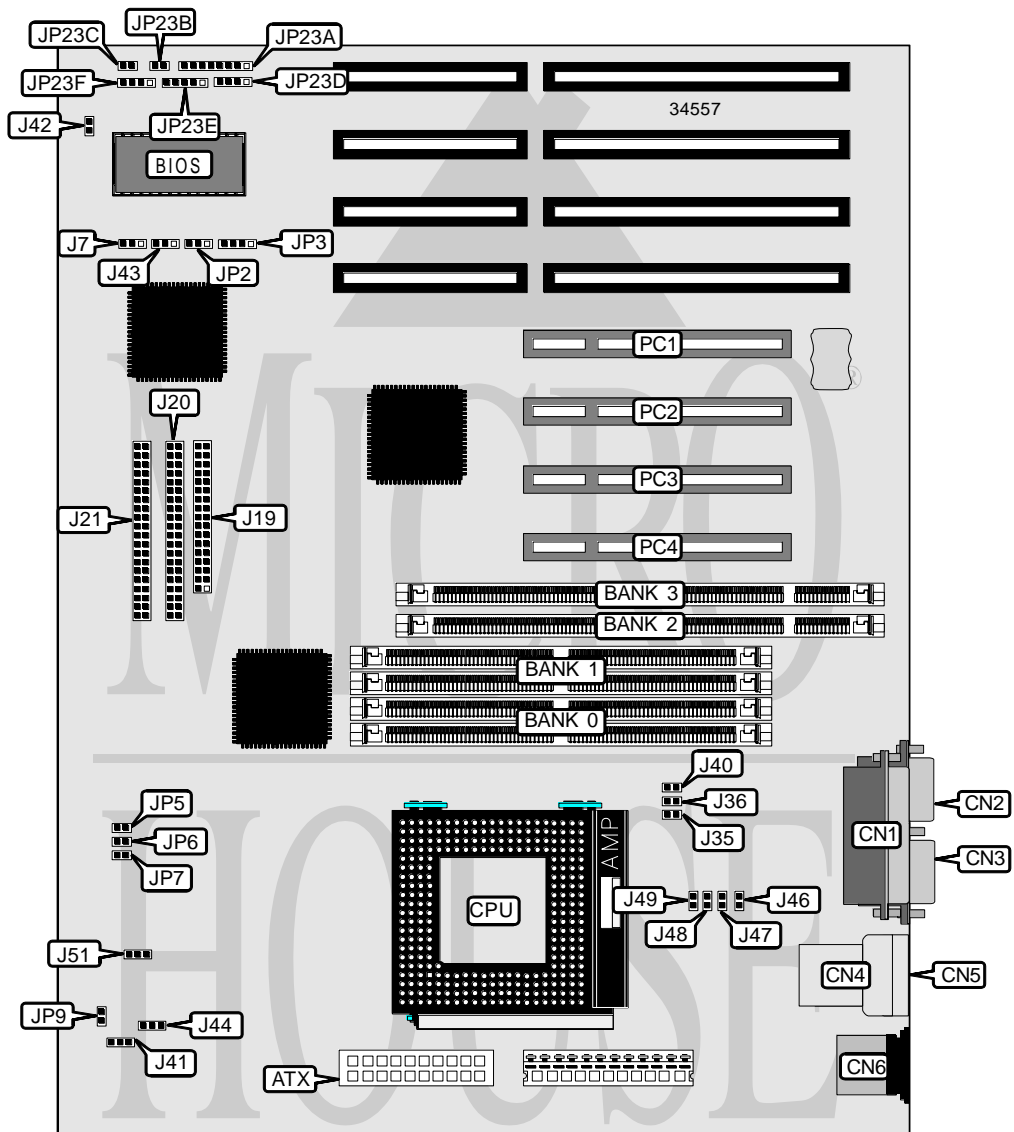
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
ATX power connector	ATX	Chassis fan power	J44
Parallel port	CN1	CPU fan power	J51
Serial port 1	CN2	Overheat fan	JP9
Serial port 2	CN3	External battery	JP3
USB connector	CN4	IR connector	JP23A
USB connector	CN5	Soft off power supply	JP23B
PS/2 mouse port	CN6	Reset switch	JP23C
Floppy drive interface	J19	IDE interface LED	JP23D
IDE interface 2	J20	Power LED & keylock	JP23E
IDE interface 1	J21	Speaker	JP23F
Overheat fan	J41	32-bit PCI slots	PC1 – PC4
Overheat LED	J42		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
í Flash BIOS flash enabled	J7	Pins 1 & 2 closed
Flash BIOS protect enabled	J7	Pins 2 & 3 closed
í Factory configured - do not alter	J40	Open
PC health monitor IRQ select IRQ9	J43	Pins 1 & 2 closed
PC health monitor IRQ select IRQ3	J43	Pins 2 & 3 closed
í CMOS memory normal operation	JP2	Pins 1 & 2 closed
CMOS memory clear	JP2	Pins 2 & 3 closed

SIMM CONFIGURATION		
Size	**Bank 0**	**Bank 1**
8MB	(2) 1M x 36	None
16MB	(2) 2M x 36	None
16MB	(2) 1M x 36	(2) 1M x 36
24MB	(2) 2M x 36	(2) 1M x 36
32MB	(2) 4M x 36	None
32MB	(2) 2M x 36	(2) 2M x 36
40MB	(2) 4M x 36	(2) 1M x 36
48MB	(2) 4M x 36	(2) 2M x 36
64MB	(2) 8M x 36	None
64MB	(2) 4M x 36	(2) 4M x 36
72MB	(2) 8M x 36	(2) 1M x 36
80MB	(2) 8M x 36	(2) 2M x 36
96MB	(2) 8M x 36	(2) 4M x 36
128MB	(2) 8M x 36	(2) 8M x 36
128MB	(2) 16M x 36	None
136MB	(2) 16M x 36	(2) 1M x 36

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SIMM CONFIGURATION (CON'T)		
Size	**Bank 0**	**Bank 1**
144MB	(2) 16M x 36	(2) 2M x 36
160MB	(2) 16M x 36	(2) 4M x 36
192MB	(2) 16M x 36	(2) 8M x 36
256MB	(2) 16M x 36	(2) 16M x 36
256MB	(2) 32M x 36	None
Note: Board accepts EDO memory. Do not populate banks 0 & 2 at the same time. Use only FPM/EDO in bank 0.		

DIMM CONFIGURATION		
Size	**Bank 2**	**Bank 3**
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) 8M x 64	(1) 8M x 64
128MB	(1) 16M x 64	None
256MB	(1) 16M x 64	(1) 16M x 64
256MB	(1) 32M x 64	None
Note: Use only SDRAM in bank 3. Bank 2 can use any type of DIMM.		

CACHE CONFIGURATION
Note: 512KB cache is factory installed and is not configurable. The location is unidentified.

CPU SPEED SELECTION (CX 6X86)							
CPU speed	**Clock speed**	**Multiplier**	**JP5**	**JP6**	**JP7**	**J35**	**J36**
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	Open	Closed
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	Open	Closed
200MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	Open	Closed
Note: Pins designated should be in the closed position.							

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CPU SPEED SELECTION (IBM 6X86)							
CPU speed	**Clock speed**	**Multiplier**	**JP5**	**JP6**	**JP7**	**J35**	**J36**
150MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	Open	Closed
166MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	Open	Closed
200MHz	66MHz	2x	2 & 3	1 & 2	1 & 2	Open	Closed
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K5)							
CPU speed	**Clock speed**	**Multiplier**	**JP5**	**JP6**	**JP7**	**J35**	**J36**
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	Open	Open
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	Open	Open
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	Open	Open
120MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	Open	Closed
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	Open	Closed
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (AM K6)							
CPU speed	**Clock speed**	**Multiplier**	**JP5**	**JP6**	**JP7**	**J35**	**J36**
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (INTEL)							
CPU speed	**Clock speed**	**Multiplier**	**JP5**	**JP6**	**JP7**	**J35**	**J36**
75MHz	50MHz	1.5x	2 & 3	2 & 3	2 & 3	Open	Open
90MHz	60MHz	1.5x	2 & 3	2 & 3	1 & 2	Open	Open
100MHz	66MHz	1.5x	1 & 2	2 & 3	2 & 3	Open	Open
120MHz	60MHz	2x	2 & 3	2 & 3	1 & 2	Open	Closed
133MHz	66MHz	2x	1 & 2	2 & 3	2 & 3	Open	Closed
150MHz	60MHz	2.5x	2 & 3	2 & 3	1 & 2	Closed	Closed
150MHz	75MHz	2x	2 & 3	1 & 2	1 & 2	Open	Closed
166MHz	66MHz	2.5x	1 & 2	2 & 3	2 & 3	Closed	Closed
180MHz	60MHz	3x	2 & 3	2 & 3	1 & 2	Closed	Open
200MHz	66MHz	3x	1 & 2	2 & 3	2 & 3	Closed	Open
233MHz	66MHz	3.5x	1 & 2	2 & 3	2 & 3	Open	Open
Note: Pins designated should be in the closed position.							

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CPU VOLTAGE SELECTION				
Voltage	**J46**	**J47**	**J48**	**J49**
2.1v	Closed	Open	Open	Open
2.2v	Open	Closed	Open	Open
2.3v	Closed	Closed	Open	Open
2.4v	Open	Open	Closed	Open
2.5v	Closed	Open	Closed	Open
2.6v	Open	Closed	Closed	Open
2.7v	Closed	Closed	Closed	Open
2.8v	Open	Open	Open	Closed
2.9v	Closed	Open	Open	Closed
3.0v	Open	Closed	Open	Closed
3.1v	Closed	Closed	Open	Closed
3.2v	Open	Open	Closed	Closed
3.3v	Closed	Open	Closed	Closed
3.4v	Open	Closed	Closed	Closed
3.5v	Closed	Closed	Closed	Closed

MISCELLANEOUS TECHNICAL NOTE
The CPU fan will automatically turn on when the CPU temperature exceeds the user defined temperature.