M TECHNOLOGY, INC.
R525 PENTIUM PCI (VER.2)

Processor	Pentium
Processor Speed	75/90/100/120/133/150MHz
Chip Set	Intel
Video Chip Set	None
Maximum Onboard Memory	128MB (EDO supported)
Maximum Video Memory	None
Cache	256/512KB
BIOS	Award
Dimensions	330mm x 218mm
I/O Options	32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), VRM connector, cache slot
NPU Options	None
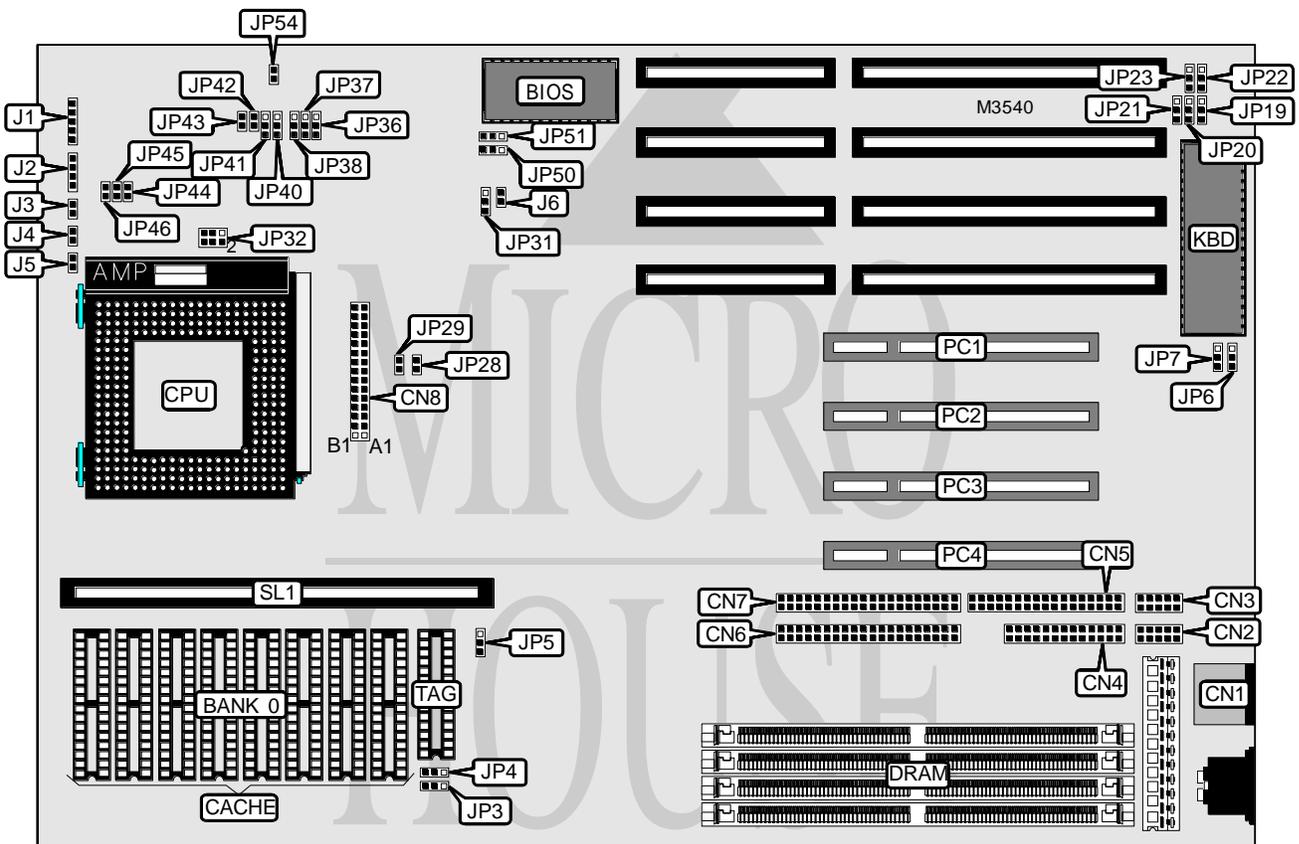
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CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	CN1	Power LED & keylock	J1
Serial port 1	CN2	Speaker	J2
Serial port 2	CN3	Turbo switch	J3
Parallel port	CN4	Turbo LED	J4
Floppy drive interface	CN5	Reset switch	J5
IDE interface 1	CN6	Green PC connector	J6
IDE interface 2	CN7	32-bit PCI slots	PC1 - PC4
VRM connector	CN8	Cache slot	SL1

USER CONFIGURABLE SETTINGS		
Function	Label	Position
Pipeline disabled	JP42	Open
Pipeline enabled	JP42	Closed
í Cache type select write back	JP43	Open
Cache type select write through	JP43	Closed
í CMOS memory normal operation	JP54	Open
CMOS memory clear	JP54	Closed

DRAM 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
24MB	(2) 1M x 36	(2) 2M 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
40MB	(2) 1M x 36	(2) 4M x 36
48MB	(2) 4M x 36	(2) 2M x 36
48MB	(2) 2M x 36	(2) 4M 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
72MB	(2) 1M x 36	(2) 8M x 36
80MB	(2) 8M x 36	(2) 2M x 36
80MB	(2) 2M x 36	(2) 8M x 36
96MB	(2) 8M x 36	(2) 4M x 36
96MB	(2) 4M x 36	(2) 8M x 36
128MB	(2) 8M x 36	(2) 8M x 36
Note: Board accepts EDO memory.		

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CACHE CONFIGURATION			
Size	Bank 0	TAG	SL1
256KB (A)	(8) 32K x 8	(1) 8K/16K/32K x 8	Not installed
256KB (B)	None	None	256KB module installed
512KB (A)	(8) 64K x 8	(1) 16K/32K x 8	Not installed
512KB (B)	None	None	512KB module installed

CACHE JUMPER CONFIGURATION			
Size	JP5	JP36	JP37
256KB	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 1 & 2 closed
512KB	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 2 & 3 closed
Note: These settings are only valid if standard cache is installed.			

CACHE CONFIGURATION	
Type	JP38
Standard cache	Pins 1 & 2 closed
Pipeline burst cache	Pins 2 & 3 closed

CACHE VOLTAGE CONFIGURATION		
Voltage	JP3	JP4
Mixed voltage	Pins 1 & 2 closed	Pins 1 & 2 closed
3.3v	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION					
Speed	JP28	JP29	JP31	JP40	JP41
75MHz	Open	Open	1 & 2	1 & 2	1 & 2
90MHz	Open	Closed	2 & 3	1 & 2	1 & 2
100MHz	Closed	Closed	2 & 3	1 & 2	1 & 2
120MHz	Open	Closed	2 & 3	1 & 2	2 & 3
133MHz	Closed	Closed	2 & 3	1 & 2	2 & 3
150MHz	Open	Closed	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION		
Type	CN8	JP32
P54CX	Pins A6 & A7, B6 & B7 closed	Open
P55C 2.5v	Open	Pins 1 & 2, 3 & 4, 5 & 6 closed
P55C 2.5v on VRM	VRM installed	Open
P55CT	VRM installed	Open

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CPU VOLTAGE SELECTION			
Voltage	JP44	JP45	JP46
3.3v	Closed	Open	Open
3.45v - 3.6v	Open	Closed	Open

DMA CHANNEL SELECTION		
Channel	JP6	JP7
1	Pins 2 & 3 closed	Pins 2 & 3 closed
í 3	Pins 1 & 2 closed	Pins 1 & 2 closed

PS/2 MOUSE SELECTION					
Setting	JP19	JP20	JP21	JP22	JP23
Disabled	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
Enabled	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
Note: Pins designated should be in the closed position.					

FLASH BIOS SELECTION		
Setting	JP50	JP51
Normal mode	Pins 2 & 3 closed	Pins 2 & 3 closed
Programming mode	Pins 1 & 2 closed	Pins 1 & 2 closed