M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA

Processor	Pentium
Processor Speed	75/90/100/120/133/150/166MHz
Chip Set	SIS
Max. Onboard DRAM	512MB
Cache	256/512/1024KB
BIOS	Award
Dimensions	330mm x 220mm
I/O Options	32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2)
NPU Options	None
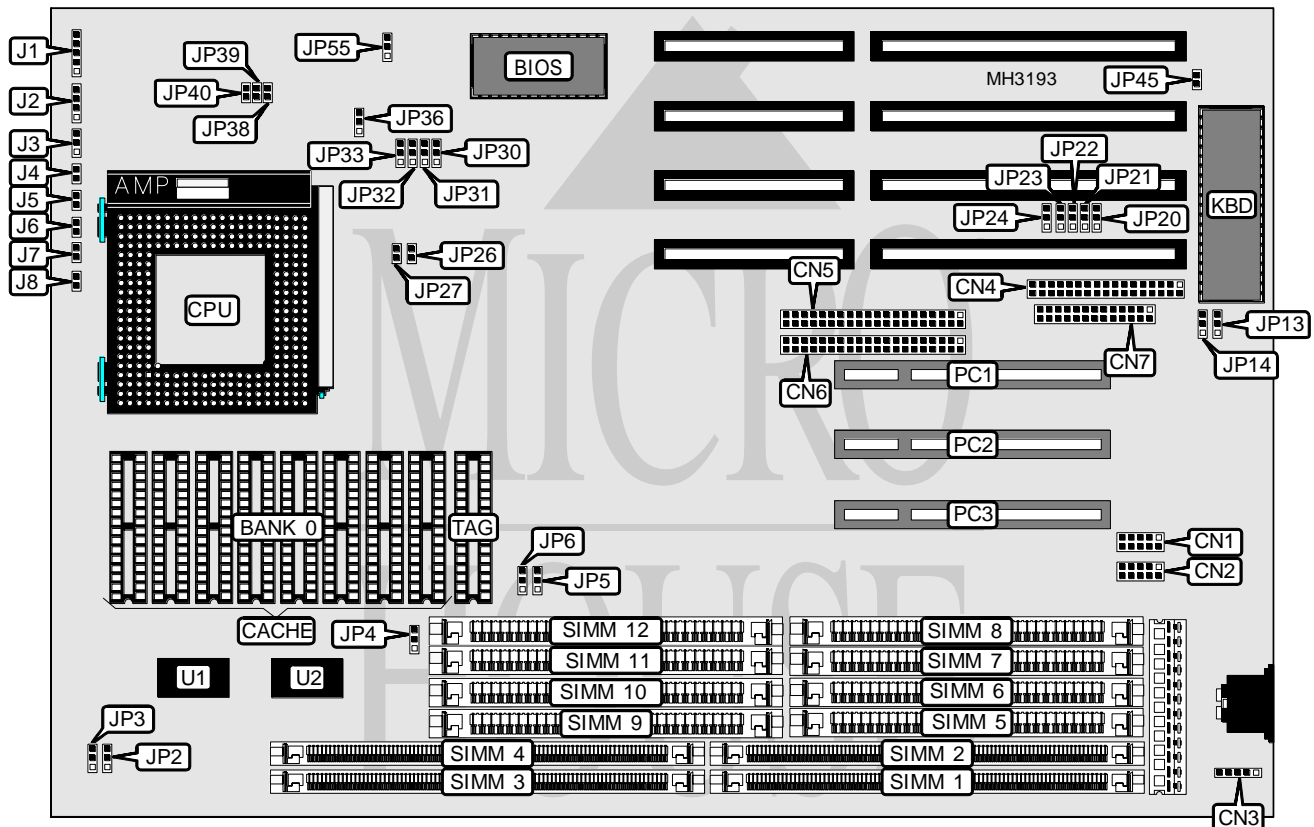
CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 2	CN1	Speaker	J2
Serial port 1	CN2	Turbo switch	J3
PS/2 mouse interface	CN3	Turbo LED	J4
Floppy drive interface	CN4	Reset switch	J5
IDE interface 2	CN5	Green PC connector	J6
IDE interface 1	CN6	IDE interface LED 1	J7
Parallel port	CN7	IDE interface LED 2	J8
Power LED & keylock	J1	32-bit PCI slots	PC1 - PC3

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
í Pipeline disabled	JP32	pins 1 & 2 closed
Pipeline enabled (only if burst cache is installed)	JP32	pins 2 & 3 closed
í Cache type select write back	JP33	pins 1 & 2 closed
Cache type select write through	JP33	pins 2 & 3 closed
í CMOS memory normal operation	JP36	pins 1 & 2 closed
CMOS memory clear	JP36	pins 2 & 3 closed
Monitor type select CGA	JP45	Closed
Monitor type select EGA/VGA/monochrome	JP45	Open
í Flash BIOS mode select normal operation	JP55	pins 2 & 3 closed
Flash BIOS mode select programming mode	JP55	pins 1 & 2 closed

DRAM CONFIGURATION 1		
Size	Bank 0	Bank 1
4MB	(4) 1M x 9	NONE
4MB	NONE	(1) 1M x 36
16MB	(4) 4M x 9	NONE
16MB	NONE	(1) 4M x 36
64MB	(4) 16M x 9	NONE
64MB	NONE	(1) 16M x 36
Note: Bank 0 = SIMM 5, 6, 7 & 8. Bank 1 = SIMM 1 or 4.		

DRAM CONFIGURATION 2			
Size	Bank 0	Bank 1	Bank 2
2MB	(2) 256K x 36	NONE	NONE
10MB	(2) 256K x 36	(2) 1M x 36	NONE
18MB	(2) 256K x 36	(2) 2M x 36	NONE
24MB	(2) 1M x 36	(2) 1M x 36	(8) 1M x 9
32MB	(2) 2M x 36	(2) 1M x 36	(8) 1M x 9
34MB	(2) 256K x 36	(2) 4M x 36	NONE
48MB	(2) 1M x 36	(2) 1M x 36	(8) 4M x 9
48MB	(2) 4M x 36	(2) 1M x 36	(8) 1M x 9
56MB	(2) 2M x 36	(2) 1M x 36	(8) 4M x 9
66MB	(2) 256K x 36	(2) 8M x 36	NONE
72MB	(2) 4M x 36	(2) 1M x 36	(8) 4M x 9
80MB	(2) 8M x 36	(2) 1M x 36	(8) 1M x 9
80MB	(2) 1M x 36	(2) 8M x 36	(8) 1M x 9
88MB	(2) 2M x 36	(2) 8M x 36	(8) 1M x 9
104MB	(2) 8M x 36	(2) 1M x 36	(8) 4M x 9
104MB	(2) 1M x 36	(2) 8M x 36	(8) 4M x 9
104MB	(2) 4M x 36	(2) 8M x 36	(8) 1M x 9
112MB	(2) 2M x 36	(2) 8M x 36	(8) 4M x 9
128MB	(2) 4M x 36	(2) 8M x 36	(8) 4M x 9
136MB	(2) 8M x 36	(2) 8M x 36	(8) 1M x 9
144MB	(2) 1M x 36	(2) 1M x 36	(8) 16M x 9

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Size	Bank 0	Bank 1	Bank 2
DRAM CONFIGURATION 2 (CON'T)			
144MB	(2) 16M x 36	(2) 1M x 36	(8) 1M x 9
144MB	(2) 1M x 36	(2) 16M x 36	(8) 1M x 9
152MB	(2) 2M x 36	(2) 1M x 36	(8) 16M x 9
152MB	(2) 2M x 36	(2) 16M x 36	(8) 1M x 9
160MB	(2) 8M x 36	(2) 8M x 36	(8) 4M x 9
168MB	(2) 4M x 36	(2) 1M x 36	(8) 16M x 9
168MB	(2) 16M x 36	(2) 1M x 36	(8) 4M x 9
168MB	(2) 1M x 36	(2) 16M x 36	(8) 4M x 9
168MB	(2) 4M x 36	(2) 16M x 36	(8) 1M x 9
176MB	(2) 2M x 36	(2) 16M x 36	(8) 4M x 9
192MB	(2) 4M x 36	(2) 16M x 36	(8) 4M x 9
200MB	(2) 8M x 36	(2) 1M x 36	(8) 16M x 9
200MB	(2) 1M x 36	(2) 8M x 36	(8) 16M x 9
200MB	(2) 8M x 36	(2) 16M x 36	(8) 1M x 9
200MB	(2) 16M x 36	(2) 8M x 36	(8) 1M x 9
208MB	(2) 2M x 36	(2) 8M x 36	(8) 16M x 9
224MB	(2) 4M x 36	(2) 8M x 36	(8) 16M x 9
224MB	(2) 8M x 36	(2) 16M x 36	(8) 4M x 9
224MB	(2) 16M x 36	(2) 8M x 36	(8) 4M x 9
256MB	(2) 8M x 36	(2) 8M x 36	(8) 16M x 9
264MB	(2) 16M x 36	(2) 1M x 36	(8) 16M x 9
264MB	(2) 1M x 36	(2) 16M x 36	(8) 16M x 9
264MB	(2) 16M x 36	(2) 16M x 36	(8) 1M x 9
272MB	(2) 2M x 36	(2) 16M x 36	(8) 16M x 9
272MB	(2) 32M x 36	(2) 1M x 36	(8) 1M x 9
272MB	(2) 1M x 36	(2) 32M x 36	(8) 1M x 9
280MB	(2) 2M x 36	(2) 32M x 36	(8) 1M x 9
288MB	(2) 4M x 36	(2) 16M x 36	(8) 16M x 9
296MB	(2) 32M x 36	(2) 1M x 36	(8) 4M x 9
296MB	(2) 1M x 36	(2) 32M x 36	(8) 4M x 9
296MB	(2) 4M x 36	(2) 32M x 36	(8) 1M x 9
304MB	(2) 2M x 36	(2) 32M x 36	(8) 4M x 9
320MB	(2) 8M x 36	(2) 16M x 36	(8) 16M x 9
320MB	(2) 16M x 36	(2) 8M x 36	(8) 16M x 9
320MB	(2) 4M x 36	(2) 32M x 36	(8) 4M x 9
328MB	(2) 8M x 36	(2) 32M x 36	(8) 1M x 9
328MB	(2) 32M x 36	(2) 8M x 36	(8) 1M x 9
352MB	(2) 8M x 36	(2) 32M x 36	(8) 4M x 9
384MB	(2) 16M x 36	(2) 16M x 36	(8) 16M x 9
392MB	(2) 32M x 36	(2) 1M x 36	(8) 16M x 9
392MB	(2) 1M x 36	(2) 32M x 36	(8) 16M x 9
392MB	(2) 16M x 36	(2) 32M x 36	(8) 1M x 9
392MB	(2) 32M x 36	(2) 16M x 36	(8) 1M x 9
400MB	(2) 2M x 36	(2) 32M x 36	(8) 16M x 9
416MB	(2) 4M x 36	(2) 32M x 36	(8) 16M x 9

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DRAM CONFIGURATION 2 (CON'T)			
Size	Bank 0	Bank 1	Bank 2
416MB	(2) 16M x 36	(2) 32M x 36	(8) 4M x 9
416MB	(2) 32M x 36	(2) 16M x 36	(8) 4M x 9
448MB	(2) 8M x 36	(2) 32M x 36	(8) 16M x 9
448MB	(2) 32M x 36	(2) 8M x 36	(8) 16M x 9
512MB	(2) 16M x 36	(2) 32M x 36	(8) 16M x 9
512MB	(2) 32M x 36	(2) 16M x 36	(8) 16M x 9
Note: Bank 0 = SIMM 1 & 2. Bank 1 = SIMM 3 & 4. Bank 2 = SIMM 5 - 12.			

DRAM CONFIGURATION 3		
Size	Bank 0	Bank 1
8MB	(4) 1M x 9	(1) 1M x 36
20MB	(4) 4M x 9	(1) 1M x 36
68MB	(4) 16M x 9	(1) 1M x 36
Note: Bank 0 = SIMM 5 - 8. Bank 1 = SIMM 2.		

DRAM CONFIGURATION 4		
Size	Bank 0	Bank 1
8MB	(4) 1M x 9	(1) 1M x 36
20MB	(4) 4M x 9	(1) 1M x 36
68MB	(4) 16M x 9	(1) 1M x 36
Note: Bank 0 = SIMM 9 - 12. Bank 1 = SIMM 1.		

DRAM JUMPER CONFIGURATION	
Configuration	JP4
1	pins 1 & 2 closed
2	pins 1 & 2 closed
3	pins 2 & 3 closed
4	pins 2 & 3 closed

CACHE CONFIGURATION			
Size	Bank 0	TAG	U1 & U2
256KB (A)	(8) 32K x 8	(1) 8K/16K/32K x 8	NONE
256KB (B)	NONE	(1) 8K/16K/32K x 8	(2) 32K x 32
512KB	(8) 64K x 8	(1) 16K/32K x 8	NONE
1MB	(8) 128K x 8	(1) 32K x 8	NONE
Note: Board can be installed with either standard or burst cache. Both types cannot be present.			

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CACHE JUMPER CONFIGURATION		
Size	JP5	JP6
256KB (A)	pins 1 & 2 closed	pins 1 & 2 closed
256KB (B)	pins 1 & 2 closed	pins 1 & 2 closed
512KB	pins 2 & 3 closed	pins 1 & 2 closed
1MB	pins 2 & 3 closed	pins 2 & 3 closed

CACHE VOLTAGE CONFIGURATION		
Voltage	JP2	JP3
3.3v/5v mixed	pins 1 & 2 closed	pins 1 & 2 closed
3.3v	pins 2 & 3 closed	pins 2 & 3 closed

CPU SPEED CONFIGURATION					
Speed	Clock speed	JP26	JP27	JP30	JP31
75MHz	50MHz	Closed	Closed	1 & 2	1 & 2
90MHz	60MHz	Closed	Open	1 & 2	1 & 2
100MHz	66MHz	Open	Closed	1 & 2	1 & 2
120MHz	60MHz	Closed	Open	2 & 3	1 & 2
133MHz	66MHz	Open	Closed	2 & 3	1 & 2
150MHz	50MHz	Closed	Closed	1 & 2	2 & 3
150MHz	60MHz	Closed	Open	2 & 3	2 & 3
166MHz	66MHz	Open	Closed	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					

CPU VOLTAGE CONFIGURATION			
Voltage	JP38	JP39	JP40
3.3v	Closed	Open	Open
3.45v - 3.6v	Open	Closed	Open

DMA CONFIGURATION		
DMA	JP13	JP14
DMA 1	pins 2 & 3 closed	pins 2 & 3 closed
íDMA 3	pins 1 & 2 closed	pins 1 & 2 closed

PS/2 MOUSE CONFIGURATION					
Setting	JP20	JP21	JP22	JP23	JP24
í Enabled	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
Disabled	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3
Note: Pins designated should be in the closed position.					