M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA MTI-526

Processor	CX M1/Pentium
Processor Speed	75/80/90/100/120/133/150/166MHz
Chip Set	SIS
Video Chip Set	None
Maximum Onboard Memory	512MB (EDO supported)
Maximum Video Memory	1MB
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
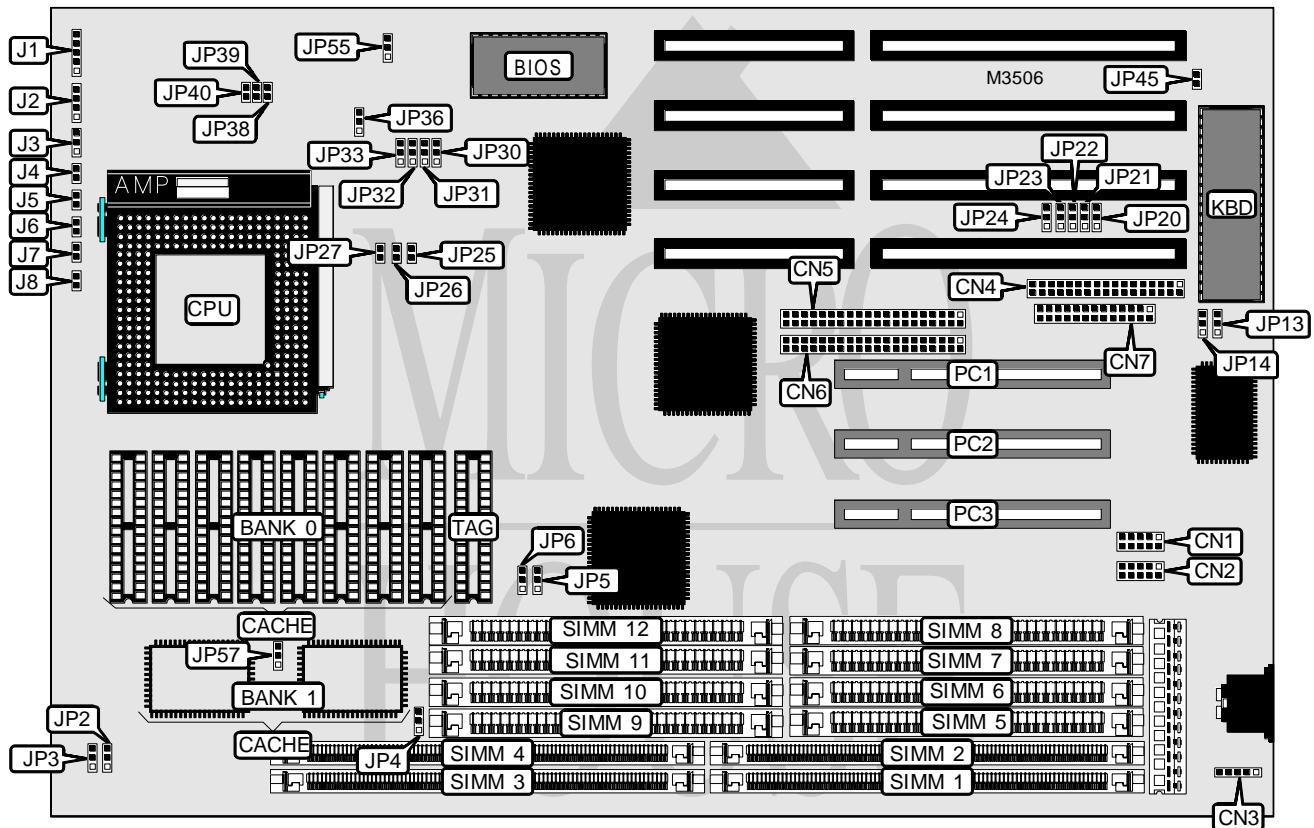
CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 2	CN1	Speaker	J2
Serial port 1	CN2	Turbo switch	J3
PS/2 mouse interface	CN3	Turbo LED	J4
Floppy drive interface	CN4	Reset switch	J5
IDE interface 2	CN5	Green PC connector	J6
IDE interface 1	CN6	IDE interface LED 1	J7
Parallel port	CN7	IDE interface LED 2	J8
Power LED & keylock	J1	32-bit PCI slots	PC1 - PC3

M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA MTI-526

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Pipeline address disabled	JP32	Pins 1 & 2 closed
Pipeline address 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
32MB	(4) 16M x 9	None
32MB	None	(1) 16M x 36
Note: Bank 0 = SIMM 5, 6, 7 & 8. Bank 1 = SIMM 1 or 2. Board accepts EDO memory. Board also accepts x 32 SIMMS.		

DRAM CONFIGURATION 2			
Size	Bank 0	Bank 1	Bank 2
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
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
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
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

M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA MTI-526

Size	Bank 0	Bank 1	Bank 2

DRAM CONFIGURATION 2 (CON'T)			
Size	Bank 0	Bank 1	Bank 2
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
288MB	(2) 16M x 36	(2) 16M x 36	(8) 4M 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
352MB	(2) 32M x 36	(2) 8M 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

M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA MTI-526

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. Board accepts EDO memory. Board also accepts x 32 SIMMS.			

DRAM CONFIGURATION 3		
Size	Bank 0	Bank 1
8MB	(4) 1M x 9	(1) 1M x 36
32MB	(4) 4M x 9	(1) 4M x 36
128MB	(4) 16M x 9	(1) 8M x 36
Note: Bank 0 = SIMM 5 - 8. Bank 1 = SIMM 2. Board accepts EDO memory. Board also accepts x 32 SIMMS.		

DRAM CONFIGURATION 4		
Size	Bank 0	Bank 1
8MB	(4) 1M x 9	(1) 1M x 36
32MB	(4) 4M x 9	(1) 4M x 36
128MB	(4) 16M x 9	(1) 8M x 36
Note: Bank 0 = SIMM 9 - 12. Bank 1 = SIMM 1. Board accepts EDO memory. Board also accepts x 32 SIMMS.		

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	Bank 1	TAG
256KB (A)	(8) 32K x 8	None	(1) 8K/16K/32K x 8
256KB (B)	None	(2) 32K x 32	(1) 8K/16K/32K x 8
512KB	(8) 64K x 8	None	(1) 16K/32K x 8
1MB	(8) 128K x 8	None	(1) 32K x 8
Note: Board will be installed with either standard or burst cache. Both types will not be present.			

M TECHNOLOGY, INC.
R526 PENTIUM PCI/ISA MTI-526

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
Mixed voltage	Pins 1 & 2 closed	Pins 1 & 2 closed
3.3v	Pins 2 & 3 closed	Pins 2 & 3 closed

CPU SPEED SELECTION (CYRIX)							
CPU speed	Clock speed	JP25	JP26	JP27	JP30	JP31	JP57
80MHz	40MHz	Closed	Open	Open	2 & 3	1 & 2	2 & 3
100MHz	50MHz	Closed	Closed	Closed	2 & 3	1 & 2	2 & 3
120MHz	60MHz	Open	Closed	Open	2 & 3	1 & 2	2 & 3
Note: Pins designated should be in the closed position.							

CPU SPEED SELECTION (INTEL)							
CPU speed	Clock speed	JP25	JP26	JP27	JP30	JP31	JP57
75MHz	50MHz	Open	Closed	Closed	1 & 2	1 & 2	1 & 2
90MHz	60MHz	Open	Closed	Open	1 & 2	1 & 2	1 & 2
100MHz	66MHz	Open	Open	Closed	1 & 2	1 & 2	1 & 2
120MHz	60MHz	Open	Closed	Open	2 & 3	1 & 2	1 & 2
133MHz	66MHz	Open	Open	Closed	2 & 3	1 & 2	1 & 2
150MHz	50MHz	Open	Closed	Closed	1 & 2	2 & 3	1 & 2
150MHz	60MHz	Open	Closed	Open	2 & 3	2 & 3	1 & 2
166MHz	66MHz	Open	Open	Closed	2 & 3	2 & 3	1 & 2
Note: Pins designated should be in the closed position.							

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

DMA CHANNEL CONFIGURATION		
Channel	JP13	JP14
1	Pins 2 & 3 closed	Pins 2 & 3 closed
í 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.					