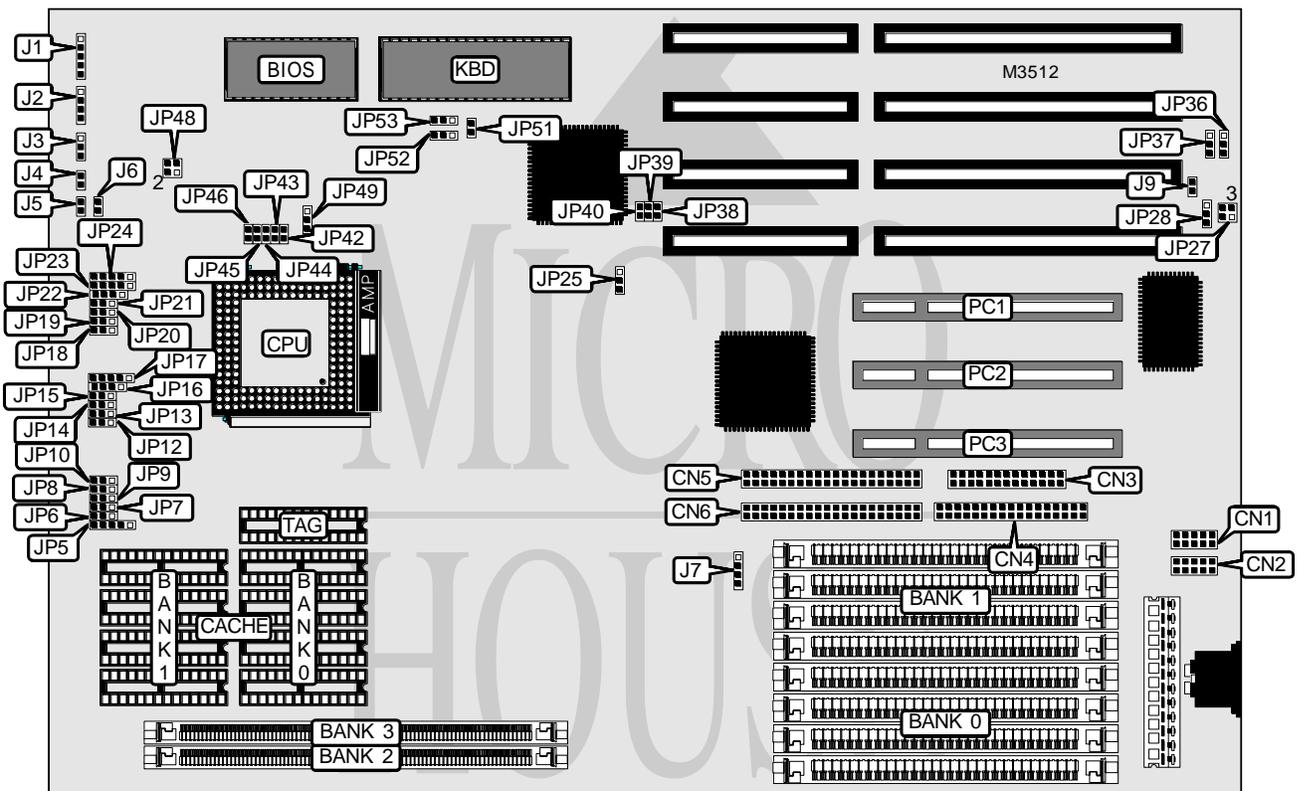


# M TECHNOLOGY, INC.

## R 418 PCI-486 (VER.2)

<b>Processor</b>	80486SX/CX486DX/AM486DX(V8T)/80486DX/CX486DX2/ AM486DX2(V8T)/80486DX2/CX486DX4/AM486DX4(V8T)/ AM486DX4(V8B)/80486DX4/P24D/P24T/CX5X86/AM X5
<b>Processor Speed</b>	25/33/40/50(internal)/50/66(internal)/80(internal)/100(internal)/ 120(internal)/133(internal)/160(internal)MHz
<b>Chip Set</b>	SIS
<b>Video Chip Set</b>	None
<b>Maximum Onboard Memory</b>	256MB
<b>Maximum Video Memory</b>	None
<b>Cache</b>	128/256/512/1024KB
<b>BIOS</b>	Award
<b>Dimensions</b>	330mm x 218mm
<b>I/O Options</b>	Parallel port, serial ports (2), 32-bit PCI slots (3), green PC connector, floppy drive interface, IDE interfaces (2)
<b>NPU Options</b>	None



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# M TECHNOLOGY, INC.

## R418 PCI-486 (VER.2)

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CONNECTIONS			
Purpose	Location	Purpose	Location
Serial port 2	CN1	Turbo switch	J3
Serial port 1	CN2	Turbo LED	J4
Parallel port	CN3	Reset switch	J5
Floppy drive interface	CN4	Break switch	J6
IDE interface 2	CN5	IDE interface LED	J7
IDE interface 1	CN6	Green PC connector	J9
Power LED & keylock	J1	32-bit PCI slots	PC1 - PC3
Speaker	J2		

USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
Serial port 1 IRQ select IRQ4	JP27	Pins 1 & 2, 3 & 4 closed
Serial port 2 IRQ select IRQ3	JP27	Pins 1 & 2 closed
Parallel port IRQ select IRQ7	JP28	Pins 2 & 3 closed
Parallel port IRQ select IRQ5	JP28	Pins 1 & 2 closed
CMOS memory normal operation	JP49	Pins 1 & 2 closed
CMOS memory clear	JP49	Pins 2 & 3 closed
Monitor type select monochrome	JP51	Open
Monitor type select color	JP51	Closed

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(4) 256K x 9	None	None	None
1MB	None	None	(1) 256K x 36	None
2MB	(4) 256K x 9	(4) 256K x 9	None	None
2MB	None	None	(1) 256K x 36	(1) 256K x 36
2MB	None	None	(1) 512K x 36	None
3MB	None	None	(1) 256K x 36	(1) 512K x 36
3MB	None	None	(1) 512K x 36	(1) 256K x 36
4MB	(4) 1M x 9	None	None	None
4MB	None	None	(1) 512K x 36	(1) 512K x 36
4MB	None	None	(1) 1M x 36	None
5MB	(4) 256K x 9	(4) 1M x 9	None	None
5MB	(4) 1M x 9	(4) 256K x 9	None	None
5MB	(4) 256K x 9	None	(1) 1M x 36	None
5MB	None	None	(1) 256K x 36	(1) 1M x 36
5MB	None	None	(1) 1M x 36	(1) 256K x 36
6MB	(4) 1M x 9	None	(1) 256K x 36	(1) 256K x 36
6MB	None	None	(1) 512K x 36	(1) 1M x 36
6MB	None	None	(1) 1M x 36	(1) 512K x 36
7MB	(4) 256K x 9	(4) 256K x 9	(1) 1M x 36	(1) 256K x 36
8MB	(4) 1M x 9	(4) 1M x 9	None	None

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M TECHNOLOGY, INC.  
R418 PCI-486 (VER.2)

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
8MB	(4) 1M x 9	(4) 256K x 9	(1) 256K x 36	(1) 512K x 36
8MB	None	None	(1) 1M x 36	(1) 1M x 36
8MB	None	None	(1) 2M x 36	None
9MB	None	None	(1) 256K x 36	(1) 2M x 36
9MB	None	None	(1) 2M x 36	(1) 256K x 36
10MB	None	None	(1) 512K x 36	(1) 2M x 36
10MB	None	None	(1) 2M x 36	(1) 512K x 36
11MB	(4) 256K x 9	(4) 1M x 9	(1) 1M x 36	(1) 512K x 36
12MB	None	None	(1) 1M x 36	(1) 2M x 36
12MB	None	None	(1) 2M x 36	(1) 1M x 36
13MB	(4) 1M x 9	(4) 1M x 9	(1) 256K x 36	(1) 1M x 36
16MB	(4) 4M x 9	None	None	None
16MB	None	None	(1) 2M x 36	(1) 2M x 36
16MB	None	None	(1) 4M x 36	None
17MB	(4) 256K x 9	(4) 4M x 9	None	None
17MB	(4) 4M x 9	(4) 256K x 9	None	None
17MB	None	None	(1) 256K x 36	(1) 4M x 36
17MB	None	None	(1) 4M x 36	(1) 256K x 36
18MB	None	None	(1) 512K x 36	(1) 4M x 36
18MB	None	None	(1) 4M x 36	(1) 512K x 36
20MB	(4) 1M x 9	(4) 4M x 9	None	None
20MB	(4) 4M x 9	(4) 1M x 9	None	None
20MB	None	None	(1) 1M x 36	(1) 4M x 36
20MB	None	None	(1) 4M x 36	(1) 1M x 36
22MB	(4) 4M x 9	(4) 1M x 9	(1) 512K x 36	None
24MB	None	None	(1) 2M x 36	(1) 4M x 36
24MB	None	None	(1) 4M x 36	(1) 2M x 36
25MB	(4) 256K x 9	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
25MB	(4) 256K x 9	None	(1) 4M x 36	(1) 2M x 36
26MB	(4) 4M x 9	None	(1) 2M x 36	(1) 512K x 36
28MB	(4) 1M x 9	(4) 4M x 9	(1) 2M x 36	None
29MB	(4) 1M x 9	(4) 4M x 9	(1) 256K x 36	(1) 2M x 36
29MB	(4) 4M x 9	(4) 256K x 9	(1) 2M x 36	(1) 1M x 36
32MB	(4) 4M x 9	(4) 4M x 9	None	None
32MB	None	None	(1) 4M x 36	(1) 4M x 36
32MB	None	None	(1) 8M x 36	None
33MB	None	None	(1) 256K x 36	(1) 8M x 36
33MB	None	None	(1) 8M x 36	(1) 256K x 36
34MB	(4) 256K x 9	(4) 256K x 9	(1) 4M x 36	(1) 4M x 36
34MB	None	None	(1) 512K x 36	(1) 8M x 36
34MB	None	None	(1) 8M x 36	(1) 512K x 36
35MB	(4) 4M x 9	(4) 4M x 9	(1) 512K x 36	(1) 256K x 36

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# M TECHNOLOGY, INC.

## R418 PCI-486 (VER.2)

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
36MB	(4) 4M x 9	(4) 1M x 9	(1) 2M x 36	(1) 2M x 36
36MB	None	None	(1) 1M x 36	(1) 8M x 36
36MB	None	None	(1) 8M x 36	(1) 1M x 36
37MB	(4) 1M x 9	None	(1) 8M x 36	(1) 256K x 36
39MB	(4) 1M x 9	(4) 256K x 9	(1) 8M x 36	(1) 512K x 36
40MB	None	None	(1) 2M x 36	(1) 8M x 36
40MB	None	None	(1) 8M x 36	(1) 2M x 36
41MB	(4) 1M x 9	(4) 256K x 9	(1) 1M x 36	(1) 8M x 36
44MB	(4) 1M x 9	(4) 1M x 9	(1) 8M x 36	(1) 1M x 36
48MB	None	None	(1) 4M x 36	(1) 8M x 36
48MB	None	None	(1) 8M x 36	(1) 4M x 36
49MB	(4) 4M x 9	None	(1) 256K x 36	(1) 8M x 36
53MB	(4) 256K x 9	(4) 1M x 9	(1) 4M x 36	(1) 8M x 36
56MB	(4) 4M x 9	(4) 4M x 9	(1) 2M x 36	(1) 4M x 36
60MB	(4) 1M x 9	(4) 4M x 9	(1) 8M x 36	(1) 2M x 36
64MB	(4) 16M x 9	None	None	None
64MB	None	None	(1) 8M x 36	(1) 8M x 36
64MB	None	None	(1) 16M x 36	None
65MB	(4) 256K x 9	(4) 16M x 9	None	None
65MB	(4) 16M x 9	(4) 256K x 9	None	None
65MB	None	None	(1) 256K x 36	(1) 16M x 36
65MB	None	None	(1) 16M x 36	(1) 256K x 36
66MB	(4) 256K x 9	(4) 16M x 9	(1) 256K x 36	None
66MB	None	None	(1) 512K x 36	(1) 16M x 36
66MB	None	None	(1) 16M x 36	(1) 512K x 36
68MB	(4) 1M x 9	(4) 16M x 9	None	None
68MB	(4) 16M x 9	(4) 1M x 9	None	None
68MB	None	None	(1) 1M x 36	(1) 16M x 36
68MB	None	None	(1) 16M x 36	(1) 1M x 36
70MB	(4) 16M x 9	None	(1) 512K x 36	(1) 1M x 36
72MB	None	None	(1) 2M x 36	(1) 16M x 36
72MB	None	None	(1) 16M x 36	(1) 2M x 36
75MB	(4) 16M x 9	(4) 256K x 9	(1) 512K x 36	(1) 2M x 36
76MB	(4) 1M x 9	(4) 1M x 9	(1) 1M x 36	(1) 16M x 36
77MB	(4) 1M x 9	(4) 16M x 9	(1) 2M x 36	(1) 256K x 36
80MB	(4) 4M x 9	(4) 16M x 9	None	None
80MB	(4) 16M x 9	(4) 4M x 9	None	None
80MB	(4) 4M x 9	None	(1) 8M x 36	(1) 8M x 36
80MB	None	None	(1) 4M x 36	(1) 16M x 36
80MB	None	None	(1) 16M x 36	(1) 4M x 36
81MB	(4) 16M x 9	(4) 256K x 9	(1) 4M x 36	None
82MB	(4) 4M x 9	(4) 256K x 9	(1) 256K x 36	(1) 16M x 36

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# M TECHNOLOGY, INC.

## R418 PCI-486 (VER.2)

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
84MB	(4) 4M x 9	(4) 16M x 9	(1) 512K x 36	(1) 512K x 36
85MB	(4) 1M x 9	(4) 16M x 9	(1) 256K x 36	(1) 4M x 36
85MB	(4) 16M x 9	(4) 1M x 9	(1) 4M x 36	(1) 256K x 36
86MB	(4) 16M x 9	(4) 1M x 9	(1) 512K x 36	(1) 4M x 36
96MB	None	None	(1) 8M x 36	(1) 16M x 36
96MB	None	None	(1) 16M x 36	(1) 8M x 36
97MB	(4) 256K x 9	(4) 16M x 9	(1) 8M x 36	None
97MB	(4) 4M x 9	(4) 4M x 9	(1) 16M x 36	(1) 256K x 36
98MB	(4) 16M x 9	(4) 4M x 9	(1) 4M x 36	(1) 512K x 36
113MB	(4) 4M x 9	(4) 256K x 9	(1) 8M x 36	(1) 16M x 36
114MB	(4) 16M x 9	(4) 4M x 9	(1) 512K x 36	(1) 8M x 36
120MB	(4) 4M x 9	(4) 16M x 9	(1) 2M x 36	(1) 8M x 36
128MB	(4) 16M x 9	(4) 16M x 9	None	None
128MB	None	None	(1) 16M x 36	(1) 16M x 36
132MB	(4) 16M x 9	None	(1) 16M x 36	(1) 1M x 36
137MB	(4) 16M x 9	(4) 256K x 9	(1) 16M x 36	(1) 2M x 36
148MB	(4) 16M x 9	(4) 16M x 9	(1) 4M x 36	(1) 1M x 36
148MB	(4) 16M x 9	(4) 1M x 9	(1) 16M x 36	(1) 4M x 36
176MB	(4) 16M x 9	(4) 4M x 9	(1) 16M x 36	(1) 8M x 36
194MB	(4) 16M x 9	(4) 16M x 9	(1) 512K x 36	(1) 16M x 36
256MB	(4) 16M x 9	(4) 16M x 9	(1) 16M x 36	(1) 16M x 36

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
128KB	(4) 32K x 8	NONE	(1) 8K x 8
256KB (A)	(4) 32K x 8	(4) 32K x 8	(1) 32K x 8
256KB (B)	(4) 64K x 8	NONE	(1) 32K x 8
512KB (A)	(4) 64K x 8	(4) 64K x 8	(1) 32K x 8
512KB (B)	(4) 128K x 8	NONE	(1) 32K x 8
1MB	(4) 128K x 8	(4) 128K x 8	(1) 64K x 8

CACHE JUMPER CONFIGURATION						
Size	JP5	JP6	JP7	JP8	JP9	JP10
128KB	1 & 2, 4 & 5	1 & 2	1 & 2	Open	1 & 2	1 & 2
256KB (A)	2 & 3, 4 & 5	2 & 3	2 & 3	Open	1 & 2	2 & 3
256KB (B)	1 & 2, 3 & 4	1 & 2	1 & 2	Open	1 & 2	2 & 3
512KB (A)	2 & 3, 4 & 5	2 & 3	2 & 3	Open	2 & 3	2 & 3
512KB (B)	1 & 2, 4 & 5	1 & 2	1 & 2	Open	2 & 3	2 & 3
1MB	2 & 3, 4 & 5	2 & 3	2 & 3	Open	2 & 3	2 & 3

Note: Pins designated should be in the closed position.

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# M TECHNOLOGY, INC.

## R418 PCI-486 (VER.2)

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CPU SPEED SELECTION				
Speed	JP25	JP38	JP39	JP40
25MHz	Pins 1 & 2 closed	Open	Open	Open
33MHz	Pins 1 & 2 closed	Closed	Closed	Open
40MHz	Pins 1 & 2 closed	Closed	Open	Open
50iMHz	Pins 1 & 2 closed	Open	Open	Open
50MHz	Pins 2 & 3 closed	Open	Closed	Open
66iMHz	Pins 1 & 2 closed	Closed	Closed	Open
80iMHz	Pins 1 & 2 closed	Closed	Open	Open
100iMHz	Pins 1 & 2 closed	Closed	Closed	Open
120iMHz	Pins 1 & 2 closed	Closed	Open	Open
133iMHz	Pins 1 & 2 closed	Closed	Closed	Open
160iMHz	Pins 1 & 2 closed	Closed	Open	Open

CPU TYPE SELECTION					
Type	JP12	JP13	JP14	JP15	JP16
80486SX	2 & 3	Open	2 & 3	Open	3 & 4
CX486DX(3.45v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
CX486DX(5v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
AM486DX(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
80486DX	2 & 3	2 & 3	2 & 3	Open	3 & 4
CX486DX2(3.45v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
CX486DX2(5v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
AM486DX2(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
80486DX2	2 & 3	2 & 3	2 & 3	Open	3 & 4
CX486DX4(3.45v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
CX486DX4(5v)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3
AM486DX4(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
AM486DX4-100(V8B)	1 & 2	2 & 3	2 & 3	Open	1 & 2, 3 & 4
AM486DX4-100(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
AM486DX4-120(V8B)	1 & 2	2 & 3	2 & 3	Open	1 & 2, 3 & 4
AM486DX4-120(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
AM486DX4-133(V8T)	2 & 3	2 & 3	2 & 3	Open	3 & 4
80486DX4	2 & 3	2 & 3	2 & 3	Open	3 & 4
P24D	1 & 2	2 & 3	2 & 3	Open	1 & 2, 3 & 4
P24T	1 & 2	1 & 2	2 & 3	1 & 2	3 & 4
CX5X86-100	2 & 3	2 & 3	2 & 3	Open	1 & 2, 3 & 4
CX5X86-120	2 & 3	2 & 3	2 & 3	Open	1 & 2, 3 & 4
CX5X86-133	2 & 3	2 & 3	2 & 3	Open	1 & 2, 3 & 4
AM X5-133	1 & 2	2 & 3	2 & 3	Open	1 & 2, 3 & 4
AM X5-160	1 & 2	2 & 3	2 & 3	Open	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.

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# M TECHNOLOGY, INC.

## R 418 PCI-486 (VER.2)

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CPU TYPE SELECTION (CON'T)				
Type	JP17	JP18	JP19	JP20
80486SX	3 & 4	Open	Open	Open
CX486DX(3.45v)	2 & 3, 4 & 5	Open	Open	Open
CX486DX(5v)	2 & 3	Open	Open	Open
AM486DX(V8T)	3 & 4	2 & 3	Open	Open
80486DX	3 & 4	2 & 3	Open	Open
CX486DX2(3.45v)	2 & 3, 4 & 5	Open	Open	Open
CX486DX2(5v)	2 & 3	Open	Open	Open
AM486DX2(V8T)	3 & 4	2 & 3	Open	Open
80486DX2	3 & 4	2 & 3	Open	Open
CX486DX4(3.45v)	2 & 3, 4 & 5	Open	Open	Open
CX486DX4(5v)	2 & 3	Open	Open	Open
AM486DX4(V8T)	3 & 4	2 & 3	Open	Open
AM486DX4-100(V8B)	1 & 2, 3 & 4	1 & 2	Open	1 & 2
AM486DX4-100(V8T)	3 & 4	Open	Open	Open
AM486DX4-120(V8B)	1 & 2, 3 & 4	1 & 2	Open	1 & 2
AM486DX4-120(V8T)	3 & 4	Open	Open	Open
AM486DX4-133(V8T)	3 & 4	2 & 3	Open	Open
80486DX4	3 & 4	2 & 3	Open	Open
P24D	1 & 2	1 & 2	Open	1 & 2
P24T	1 & 2	Open	Open	Open
CX5X86-100	1 & 2, 3 & 4	1 & 2	Open	1 & 2
CX5X86-120	1 & 2, 3 & 4	1 & 2	Open	1 & 2
CX5X86-133	1 & 2, 3 & 4	1 & 2	2 & 3	1 & 2
AM X5-133	1 & 2, 3 & 4	1 & 2	2 & 3	1 & 2
AM X5-160	1 & 2, 3 & 4	1 & 2	2 & 3	1 & 2

Note: Pins designated should be in the closed position.

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## R418 PCI-486 (VER.2)

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CPU TYPE SELECTION (CON'T)				
Type	JP21	JP22	JP23	JP24
80486SX	Open	2 & 3	4 & 5	Open
CX486DX(3.45v)	Open	1 & 2, 3 & 4	2 & 3	Open
CX486DX(5v)	Open	1 & 2, 3 & 4	2 & 3	Open
AM486DX(V8T)	Open	1 & 2, 3 & 4	4 & 5	Open
80486DX	Open	1 & 2, 3 & 4	4 & 5	Open
CX486DX2(3.45v)	Open	1 & 2, 3 & 4	2 & 3	Open
CX486DX2(5v)	Open	1 & 2, 3 & 4	2 & 3	Open
AM486DX2(V8T)	Open	1 & 2, 3 & 4	4 & 5	Open
80486DX2	Open	1 & 2, 3 & 4	4 & 5	Open
CX486DX4(3.45v)	Open	1 & 2, 3 & 4	2 & 3	Open
CX486DX4(5v)	Open	1 & 2, 3 & 4	2 & 3	Open
AM486DX4(V8T)	Open	1 & 2, 3 & 4	4 & 5	Open
AM486DX4-100(V8B)	Open	1 & 2, 3 & 4	4 & 5	2 & 3
AM486DX4-100(V8T)	Open	1 & 2, 3 & 4	4 & 5	2 & 3
AM486DX4-120(V8B)	Open	1 & 2, 3 & 4	4 & 5	Open
AM486DX4-120(V8T)	Open	1 & 2, 3 & 4	4 & 5	Open
AM486DX4-133(V8T)	Open	1 & 2, 3 & 4	4 & 5	Open
80486DX4	Open	1 & 2, 3 & 4	4 & 5	Open
P24D	Open	1 & 2, 3 & 4	4 & 5	2 & 3
P24T	1 & 2 or 3 & 4	1 & 2, 3 & 4	1 & 2	Open
CX5X86-100	Open	1 & 2, 3 & 4	4 & 5	2 & 3
CX5X86-120	Open	1 & 2, 3 & 4	4 & 5	2 & 3
CX5X86-133	Open	1 & 2, 3 & 4	4 & 5	2 & 3
AM X5-133	Open	1 & 2, 3 & 4	4 & 5	2 & 3
AM X5-160	Open	1 & 2, 3 & 4	4 & 5	2 & 3

Note: Pins designated should be in the closed position.

CPU VOLTAGE SELECTION						
Voltage	JP42	JP43	JP44	JP45	JP46	JP48
3.3v	Closed	Open	Open	Open	Open	Open
3.45v	Open	Closed	Open	Open	Open	Open
3.6v	Open	Open	Closed	Open	Open	Open
3.75v	Open	Open	Open	Closed	Open	Open
3.9v	Open	Open	Open	Open	Closed	Open
5v	Open	Open	Open	Open	Open	1 & 2, 3 & 4

Note: Pins designated should be in the closed position. JP48 may not be present on boards that are 5v auto-detect.

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DMA CHANNEL SELECTION		
Channel	JP36	JP37
1	Pins 2 & 3 closed	Pins 2 & 3 closed
3	Pins 1 & 2 closed	Pins 1 & 2 closed

BIOS SELECTION		
Type	JP52	JP53
EEPROM	Pins 2 & 3 closed	Pins 2 & 3 closed
12v flash	Pins 1 & 2 closed	Pins 1 & 2 closed