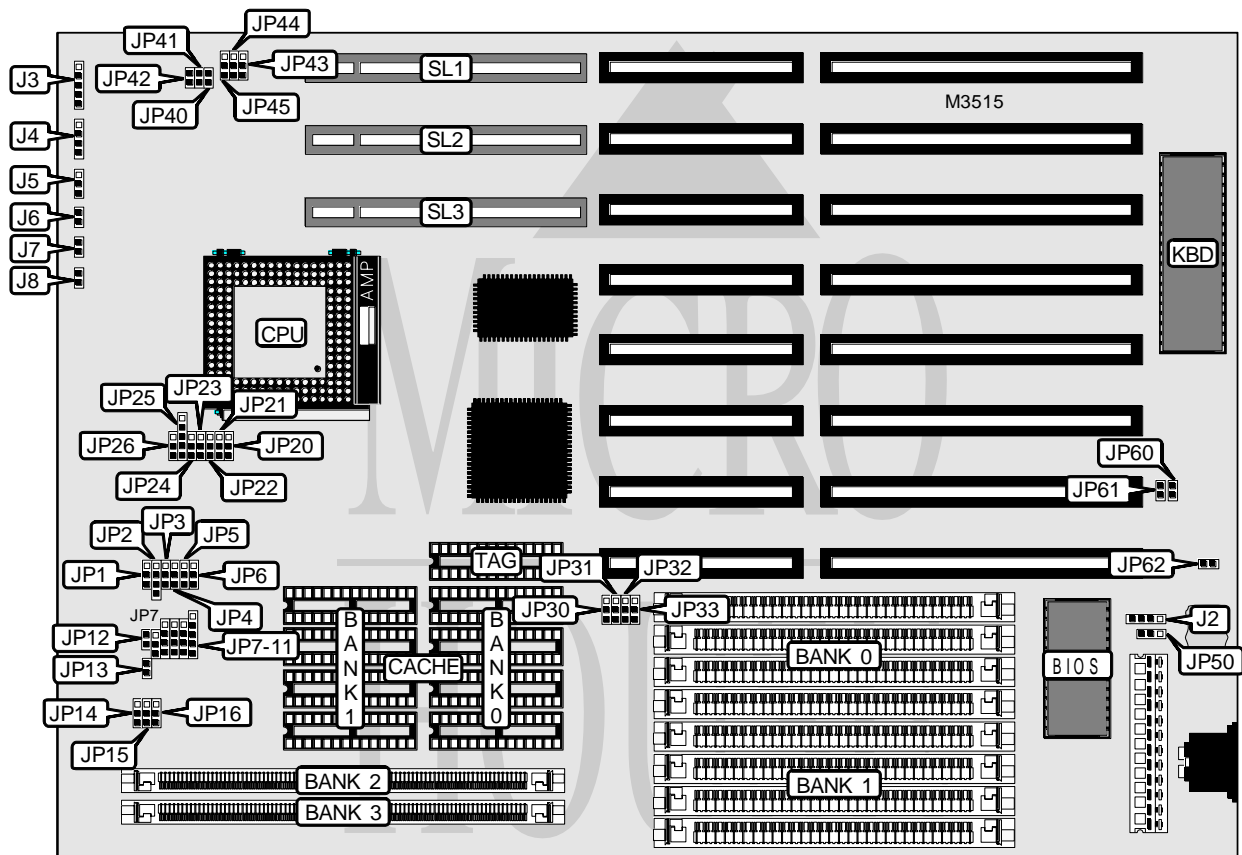


M TECHNOLOGY, INC.

R407E VESA 486

Processor	80486SX/CX486DX/AM486DX/80486DX/CX486DX2/AM486DX2/ 80486DX2/CX486DX4/AM486DX4/AM486DX4(V8B)/80486DX4/P24D/P24T/CX5X 86/AM K5
Processor Speed	25/33/40/50(internal)/50/66(internal)/100(internal)/120(internal)/ 133(internal)/160(internal)MHz
Chip Set	Unidentified
Video Chip Set	None
Maximum Onboard Memory	128MB
Maximum Video Memory	None
Cache	128/256/512/1024KB
BIOS	AMI
Dimensions	330mm x 218mm
I/O Options	32-bit VESA local bus slots (3), green PC connector
NPU Options	None



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CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	J2	Reset switch	J7
Power LED & keylock	J3	Green PC connector	J8
Speaker	J4	Green PC connector	JP60
Turbo switch	J5	Green PC connector	JP61
Turbo LED	J6	32-bit VESA local bus slots	SL1 - SL3

USER CONFIGURABLE SETTINGS		
Function	Label	Position
Jumper information unavailable	JP43	Unidentified
CMOS memory normal operation	JP50	Pins 1 & 2 closed
CMOS memory clear	JP50	Pins 2 & 3 closed
Monitor type select CGA	JP62	Closed
Monitor type select monochrome/EGA/VGA	JP62	Open

DRAM CONFIGURATION (MODE 1)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(4) 256K x 9	None	None	None
2MB	(4) 256K x 9	(4) 256K x 9	None	None
4MB	(4) 1M x 9	None	None	None
5MB	(4) 256K x 9	(4) 1M x 9	None	None
6MB	(4) 256K x 9	(4) 256K x 9	(1) 1M x 36	None
8MB	(4) 1M x 9	(4) 1M x 9	None	None
10MB	(4) 256K x 9	(4) 256K x 9	(1) 1M x 36	(1) 1M x 36
12MB	(4) 1M x 9	(4) 1M x 9	(1) 1M x 36	None
16MB	(4) 1M x 9	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
16MB	(4) 4M x 9	None	None	None
17MB	(4) 256K x 9	(4) 4M x 9	None	None
18MB	(4) 256K x 9	(4) 256K x 9	(1) 4M x 36	None
20MB	(4) 1M x 9	(4) 4M x 9	None	None
24MB	(4) 1M x 9	(4) 1M x 9	(1) 4M x 36	None
32MB	(4) 4M x 9	(4) 4M x 9	None	None
36MB	(4) 1M x 9	(4) 4M x 9	(1) 4M x 36	None
40MB	(4) 1M x 9	(4) 1M x 9	(1) 4M x 36	(1) 4M x 36
48MB	(4) 4M x 9	(4) 4M x 9	(1) 4M x 36	None
64MB	(4) 4M x 9	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
64MB	(4) 16M x 9	None	None	None
65MB	(4) 256K x 9	None	(1) 16M x 36	None
68MB	(4) 1M x 9	(4) 16M x 9	None	None
72MB	(4) 1M x 9	(4) 16M x 9	(1) 1M x 36	None
80MB	(4) 4M x 9	(4) 16M x 9	None	None
96MB	(4) 4M x 9	(4) 4M x 9	(1) 16M x 36	None
128MB	(4) 16M x 9	(4) 16M x 9	None	None

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DRAM CONFIGURATION (MODE 2)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	None	None	(1) 256K x 36	None
2MB	None	None	(1) 256K x 36	(1) 256K x 36
2MB	None	None	(1) 512K x 36	None
4MB	None	None	(1) 512K x 36	(1) 512K x 36
4MB	None	None	(1) 1M x 36	None
5MB	None	None	(1) 256K x 36	(1) 1M 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
8MB	(4) 1M x 9	None	(1) 512K 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
10MB	(4) 1M x 9	(4) 1M x 9	(1) 256K x 36	(1) 256K x 36
12MB	(4) 1M x 9	(4) 1M x 9	(1) 512K x 36	(1) 512K x 36
12MB	(4) 1M x 9	None	(1) 1M x 36	(1) 1M x 36
12MB	None	None	(1) 1M x 36	(1) 2M x 36
16MB	(4) 1M x 9	(4) 1M x 9	(1) 1M x 36	(1) 1M x 36
16MB	None	None	(1) 2M x 36	(1) 2M x 36
16MB	None	None	(1) 4M x 36	None
17MB	None	None	(1) 256K x 36	(1) 4M x 36
18MB	(4) 4M x 9	None	(1) 256K x 36	(1) 256K x 36
18MB	None	None	(1) 512K x 36	(1) 4M x 36
20MB	(4) 4M x 9	None	(1) 512K x 36	(1) 512K x 36
20MB	None	None	(1) 1M x 36	(1) 4M x 36
24MB	(4) 1M x 9	(4) 4M x 9	(1) 512K x 36	(1) 512K x 36
24MB	(4) 4M x 9	None	(1) 1M x 36	(1) 1M x 36
24MB	None	None	(1) 2M x 36	(1) 4M x 36
32MB	(4) 4M x 9	None	(1) 2M x 36	(1) 2M x 36
32MB	None	None	(1) 4M x 36	(1) 4M x 36
32MB	None	None	(1) 8M x 36	None
36MB	(4) 4M x 9	(4) 4M x 9	(1) 512K x 36	(1) 512K x 36
36MB	(4) 4M x 9	None	(1) 1M x 36	(1) 4M x 36
36MB	None	None	(1) 1M x 36	(1) 8M x 36
40MB	(4) 4M x 9	(4) 4M x 9	(1) 1M x 36	(1) 1M x 36
48MB	(4) 4M x 9	(4) 4M x 9	(1) 2M x 36	(1) 2M x 36
48MB	(4) 4M x 9	(4) 4M x 9	(1) 4M x 36	None
48MB	None	None	(1) 4M x 36	(1) 8M x 36
64MB	(4) 4M x 9	(4) 4M x 9	(1) 4M x 36	(1) 4M x 36
64MB	None	None	(1) 16M x 36	None
64MB	None	None	(1) 8M x 36	(1) 8M x 36
65MB	None	None	(1) 256K x 36	(1) 16M x 36

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DRAM CONFIGURATION (MODE 2 CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
68MB	None	None	(1) 1M x 36	(1) 16M x 36
72MB	(4) 16M x 9	None	(1) 1M x 36	(1) 1M x 36
80MB	None	None	(1) 4M x 36	(1) 16M x 36
96MB	(4) 16M x 9	None	(1) 4M x 36	(1) 4M x 36
128MB	None	None	(1) 16M x 36	(1) 16M x 36

DRAM JUMPER CONFIGURATION				
Size	JP30	JP31	JP32	JP33
Mode 1	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed
Mode 2	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
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	JP20	JP21	JP22	JP23	JP24	JP25	JP26
64KB	1 & 2	1 & 2	1 & 2	1 & 2	2 & 3	Open	Open
128KB	2 & 3	1 & 2	1 & 2	2 & 3	1 & 2	1 & 2	Open
256KB (A)	2 & 3	2 & 3	1 & 2	2 & 3	2 & 3	2 & 3	Open
256KB (B)	2 & 3	2 & 3	1 & 2	2 & 3	1 & 2	1 & 2, 3 & 4	2 & 3
512KB (A)	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3, 4 & 5	1 & 2
512KB (B)	2 & 3	2 & 3	2 & 3	2 & 3	1 & 2	1 & 2, 3 & 4	1 & 2
1MB	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3	2 & 3, 4 & 5	1 & 2

Note: Pins designated should be in the closed position.

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CPU SPEED SELECTION			
Speed	JP40	JP41	JP42
25MHz	Closed	Open	Closed
33MHz	Closed	Closed	Open
40MHz	Open	Open	Closed
50iMHz	Closed	Open	Closed
50MHz	Open	Closed	Open
66iMHz	Closed	Closed	Open
100iMHz	Closed	Closed	Open
120iMHz	Open	Open	Closed
133iMHz	Closed	Closed	Open
160iMHz	Open	Open	Closed

CPU TYPE SELECTION					
Type	JP1	JP2	JP3	JP4	JP5
80486SX	Open	3 & 4	Open	2 & 3	2 & 3
CX486DX(3.45v)	2 & 3	2 & 3, 4 & 5	Open	2 & 3	1 & 2
CX486DX(5v)	2 & 3	2 & 3	Open	2 & 3	1 & 2
AM486DX	Open	3 & 4	Open	2 & 3	2 & 3
80486DX	Open	3 & 4	Open	2 & 3	2 & 3
CX486DX2(3.45v)	2 & 3	2 & 3, 4 & 5	Open	2 & 3	1 & 2
CX486DX2(5v)	2 & 3	2 & 3	Open	2 & 3	1 & 2
AM486DX2	Open	3 & 4	Open	2 & 3	2 & 3
80486DX2	Open	3 & 4	Open	2 & 3	2 & 3
CX486DX4(3.45v)	2 & 3	2 & 3, 4 & 5	Open	2 & 3	1 & 2
CX486DX4(5v)	2 & 3	2 & 3	Open	2 & 3	1 & 2
AM486DX4-100	Open	3 & 4	Open	2 & 3	2 & 3
AM486DX4-100(V8B)	Open	1 & 2, 3 & 4	2 & 3	1 & 2	1 & 2
AM486DX4-120	Open	3 & 4	Open	2 & 3	2 & 3
AM486DX4-120(V8B)	Open	1 & 2, 3 & 4	2 & 3	1 & 2	1 & 2
AM486DX4-133	Open	3 & 4	Open	2 & 3	2 & 3
80486DX4	Open	3 & 4	Open	2 & 3	2 & 3
P24D	Open	1 & 2	2 & 3	1 & 2	1 & 2
P24T	1 & 2	1 & 2	Open	1 & 2	1 & 2
CX5X86-100	Open	1 & 2, 3 & 4	2 & 3	2 & 3	1 & 2
CX5X86-120	Open	1 & 2, 3 & 4	2 & 3	2 & 3	1 & 2
CX5X86-133	Open	1 & 2, 3 & 4	2 & 3	2 & 3	1 & 2
AM K5	Open	1 & 2, 3 & 4	2 & 3	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

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CPU TYPE SELECTION (CON'T)					
Type	JP6	JP7	JP8	JP9	JP10
80486SX	1 & 2	2 & 3	Open	2 & 3	3 & 4
CX486DX(3.45v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
CX486DX(5v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
AM486DX	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
80486DX	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
CX486DX2(3.45v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
CX486DX2(5v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
AM486DX2	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
80486DX2	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
CX486DX4(3.45v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
CX486DX4(5v)	2 & 3	1 & 2	3 & 4	1 & 2, 3 & 4	2 & 3
AM486DX4-100	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
AM486DX4-100(V8B)	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
AM486DX4-120	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
AM486DX4-120(V8B)	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
AM486DX4-133	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
80486DX4	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	3 & 4
P24D	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
P24T	1 & 2	2 & 3	2 & 3	1 & 2, 3 & 4	3 & 4
CX5X86-100	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
CX5X86-120	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
CX5X86-133	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4
AM K5	1 & 2	2 & 3	3 & 4	1 & 2, 3 & 4	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.

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CPU TYPE SELECTION (CON'T)					
Type	JP11	JP12	JP13	JP14	JP16
80486SX	4 & 5	Open	Open	Open	1 & 2
CX486DX(3.45v)	2 & 3	Open	Open	Open	1 & 2
CX486DX(5v)	2 & 3	Open	Open	Open	1 & 2
AM486DX	4 & 5	Open	2 & 3	Open	1 & 2
80486DX	4 & 5	Open	Open	Open	1 & 2
CX486DX2(3.45v)	2 & 3	Open	Open	Open	1 & 2
CX486DX2(5v)	2 & 3	Open	Open	Open	1 & 2
AM486DX2	4 & 5	Open	2 & 3	Open	1 & 2
80486DX2	4 & 5	Open	Open	Open	1 & 2
CX486DX4(3.45v)	2 & 3	Open	Open	Open	1 & 2
CX486DX4(5v)	2 & 3	Open	Open	Open	1 & 2
AM486DX4-100	4 & 5	Open	Open	Open	1 & 2
AM486DX4-100(V8B)	4 & 5	Open	Open	Open	1 & 2
AM486DX4-120	4 & 5	Open	Open	Open	1 & 2
AM486DX4-120(V8B)	4 & 5	Open	Open	Open	1 & 2
AM486DX4-133	4 & 5	Open	2 & 3	Open	1 & 2
80486DX4	4 & 5	Open	Open	Open	1 & 2
P24D	4 & 5	Open	1 & 2	1 & 2	1 & 2
P24T	1 & 2	Open	Open	Open	1 & 2
CX5X86-100	4 & 5	Open	Open	1 & 2	1 & 2
CX5X86-120	4 & 5	Open	Open	1 & 2	1 & 2
CX5X86-133	4 & 5	Open	Open	1 & 2	1 & 2
AM K5	4 & 5	Open	1 & 2	1 & 2	1 & 2

Note: Pins designated should be in the closed position.

CPU MULTIPLIER SELECTION (80486DX4 ONLY)	
Multiplier	JP15
2x	Pins 2 & 3 closed
2.5x	Pins 1 & 2 closed
3x	Open

VL BUS WAIT STATE SELECTION	
Setting	JP44
0	Pins 1 & 2 closed
1	Pins 2 & 3 closed

VL BUS SPEED SELECTION	
Speed	JP45
<= 33MHz	Pins 1 & 2 closed
>33 MHz	Pins 2 & 3 closed