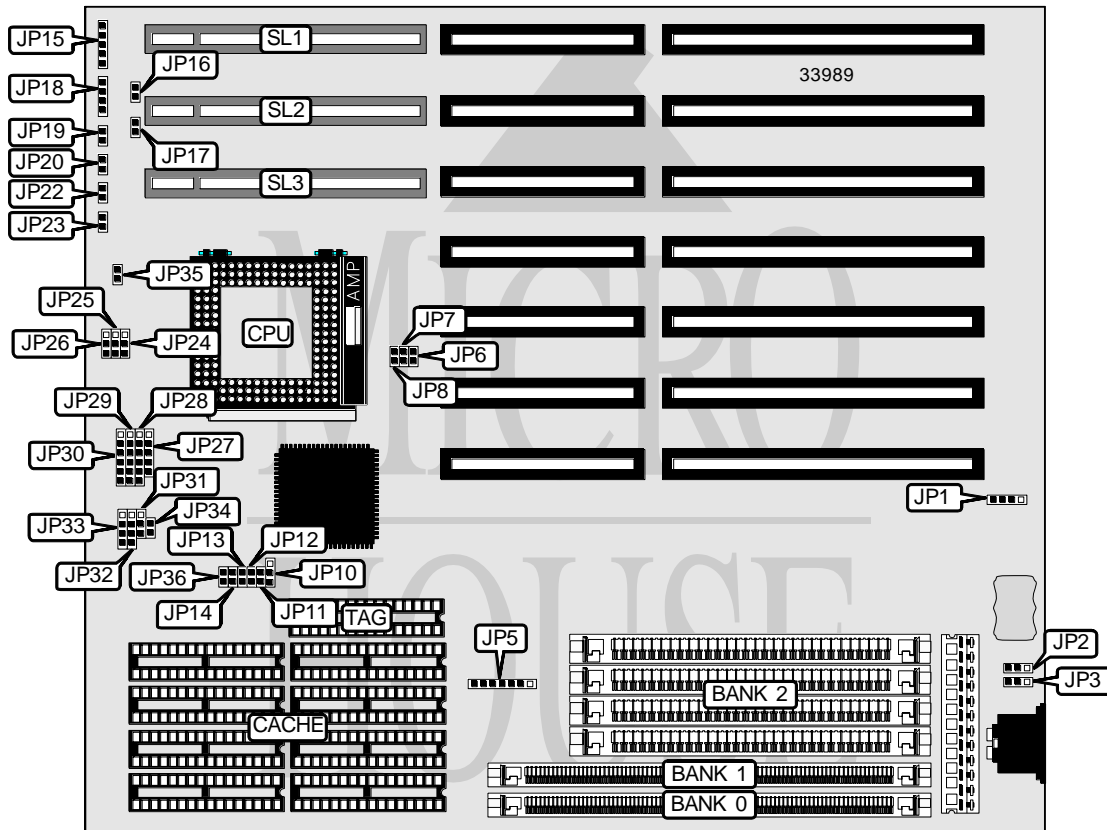


PC WARE INTERNATIONAL, INC.

MB - U 4 9 8 W B

Processor	UMC U5/80486SX/AM486DX/80486DX/CX486DX2(M7)/AM486DX2/80486DX2/SL80486DX2/AM486DX4/SL80486DX4/P24D/P24T/ CX5X86
Processor Speed	25/33/40/50(internal)/50/66(internal)/75(internal)/80(internal)/100(internal)/120(internal)MHz
Chip Set	OPTI
Video Chip Set	None
Maximum Onboard Memory	64MB
Maximum Video Memory	None
Cache	64/128/256/512/1024KB
BIOS	AMI
Dimensions	254mm x 218mm
I/O Options	32-bit VESA local bus slots (3), green PC connector
NPU Options	None



CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	JP1	Reset switch	JP20
Power LED & keylock	JP15	Turbo switch	JP22
Speaker	JP18	Green PC connector	JP23
Turbo LED	JP19	32-bit VESA local bus slots	SL1 - SL3

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USER CONFIGURABLE SETTINGS		
Function	Label	Position
Battery type select internal	JP1	Closed
Battery type select external	JP1	Pins 2 & 3 closed
CMOS memory clear	JP1	Pins 3 & 4 closed
í Factory configured - do not alter	JP2	Open
Flash BIOS voltage select 12v	JP3	Pins 2 & 3 closed
Flash BIOS voltage select 5v	JP3	Pins 1 & 2 closed
í Factory configured - do not alter	JP36	Unidentified

DRAM CONFIGURATION			
Size	Bank 0	Bank 1	Bank 2
1MB	(1) 256K x 36	None	None
1MB	None	(1) 256K x 36	None
2MB	(1) 256K x 36	(1) 256K x 36	None
2MB	None	(1) 256K x 36	(4) 256K x 9
3MB	(1) 256K x 36	(1) 256K x 36	(4) 256K x 9
4MB	(1) 1M x 36	None	None
4MB	None	(1) 1M x 36	None
5MB	(1) 1M x 36	(1) 256K x 36	None
6MB	(1) 256K x 36	(1) 256K x 36	(1) 1M x 9
6MB	(1) 1M x 36	(1) 256K x 36	(4) 256K x 9
8MB	(1) 2M x 36	None	None
8MB	(1) 1M x 36	(1) 1M x 36	None
9MB	(1) 2M x 36	(1) 256K x 36	None
9MB	(1) 1M x 36	(1) 256K x 36	(1) 1M x 9
9MB	(1) 1M x 36	(1) 1M x 36	(4) 256K x 9
12MB	(1) 2M x 36	(1) 1M x 36	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 9
16MB	(1) 4M x 36	None	None
16MB	None	(1) 4M x 36	None
17MB	(1) 4M x 36	(1) 256K x 36	None
18MB	(1) 4M x 36	(1) 256K x 36	(4) 256K x 9
20MB	(1) 4M x 36	(1) 1M x 36	None
21MB	(1) 1M x 36	(1) 256K x 36	(1) 4M x 9
21MB	(1) 4M x 36	(1) 256K x 36	(1) 1M x 9
21MB	(1) 4M x 36	(1) 1M x 36	(4) 256K x 9
24MB	(1) 2M x 36	(1) 4M x 36	None
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 9
25MB	(1) 4M x 36	(1) 2M x 36	(4) 256K x 9
28MB	(1) 4M x 36	(1) 2M x 36	(1) 1M x 9

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DRAM CONFIGURATION (CON'T)			
Size	Bank 0	Bank 1	Bank 2
32MB	(1) 8M x 36	None	None
32MB	(1) 4M x 36	(1) 4M x 36	None
33MB	(1) 8M x 36	(1) 256K x 36	None
33MB	(1) 4M x 36	(1) 4M x 36	(4) 256K x 9
36MB	(1) 8M x 36	(1) 1M x 36	None
36MB	(1) 1M x 36	(1) 8M x 36	None
36MB	(1) 4M x 36	(1) 1M x 36	(1) 4M x 9
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 9
40MB	(1) 4M x 36	(1) 2M x 36	(1) 4M x 9
48MB	(1) 8M x 36	(1) 4M x 36	None
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 9
52MB	(1) 4M x 36	(1) 8M x 36	(1) 1M x 9
64MB	(1) 8M x 36	(1) 8M x 36	None
64MB	(1) 4M x 36	(1) 8M x 36	(1) 4M x 9

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 8
128KB (A)	(1) 16K x 8	(1) 16K x 8	(1) 8K x 8
128KB (B)	(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

Note: The location of banks 0 & 1 are unidentified.

CACHE JUMPER CONFIGURATION						
Size	JP5	JP10	JP11	JP12	JP13	JP14
64KB	2 & 3	2 & 3	Open	Open	Open	Open
128KB (A)	2 & 3	2 & 3	Open	Open	Open	Closed
128KB (B)	1 & 2	1 & 2	Open	Open	Open	Closed
256KB (A)	2 & 3	2 & 3	Open	Open	Closed	Closed
256KB (B)	1 & 2, 3 & 4	1 & 2	Open	Closed	Closed	Closed
512KB (A)	2 & 3, 4 & 5	2 & 3	Open	Closed	Closed	Closed
512KB (B)	1 & 2, 3 & 4, 5 & 6	1 & 2	Open	Closed	Closed	Closed
1MB	2 & 3, 4 & 5, 6 & 7	2 & 3	Closed	Closed	Closed	Closed

Note: Pins designated should be in the closed position.

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CPU SPEED SELECTION			
Speed	JP6	JP7	JP8
25MHz	Open	Open	Closed
33MHz	Closed	Closed	Closed
40MHz	Open	Closed	Closed
50iMHz	Open	Open	Closed
50MHz	Closed	Open	Open
66iMHz	Closed	Closed	Closed
75iMHz	Open	Open	Closed
80iMHz	Open	Closed	Closed
100iMHz	Closed	Closed	Closed
120iMHz	Open	Closed	Closed

CPU TYPE SELECTION			
Type	JP27	JP28	JP29
UMC U5	Open	2 & 3	2 & 3
80486SX	Open	2 & 3	Open
AM486DX	Open	2 & 3	Open
80486DX	Open	2 & 3	Open
CX486DX2 (M7)	2 & 3	1 & 2, 3 & 4, 5 & 6	1 & 2, 3 & 4, 5 & 6
AM486DX2	Open	2 & 3	Open
80486DX2	Open	2 & 3	Open
SL80486DX2	1 & 2, 3 & 4	1 & 2	1 & 2
AM486DX4	1 & 2, 3 & 4	1 & 2, 4 & 5	1 & 2, 4 & 5
SL80486DX4	1 & 2, 3 & 4	1 & 2	1 & 2
P24D	1 & 2, 3 & 4	1 & 2, 4 & 5	1 & 2, 4 & 5
P24T	1 & 2, 3 & 4	1 & 2	1 & 2
CX5X86	1 & 2, 3 & 4	1 & 2, 4 & 5	1 & 2, 4 & 5

Note: Pins designated should be in the closed position.

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CPU TYPE SELECTION (CON'T)			
Type	JP30	JP32	JP33
UMC U5	1 & 2	3 & 4	2 & 3
80486SX	Open	Open	2 & 3
AM486DX	Open	1 & 2	1 & 2, 3 & 4
80486DX	Open	1 & 2	1 & 2, 3 & 4
CX486DX2 (M7)	2 & 3, 4 & 5	1 & 2	1 & 2, 3 & 4
AM486DX2	Open	1 & 2	1 & 2, 3 & 4
80486DX2	Open	1 & 2	1 & 2, 3 & 4
SL80486DX2	5 & 6	1 & 2	1 & 2, 3 & 4
AM486DX4	3 & 4, 5 & 6	1 & 2	1 & 2, 3 & 4
SL80486DX4	5 & 6	1 & 2	1 & 2, 3 & 4
P24D	3 & 4, 5 & 6	1 & 2	1 & 2, 3 & 4
P24T	5 & 6	2 & 3	1 & 2, 3 & 4
CX5X86	3 & 4, 5 & 6	1 & 2	1 & 2, 3 & 4

Note: Pins designated should be in the closed position.

CPU MULTIPLIER SELECTION (AMD)	
Multiplier	JP34
2x	Closed
3x	Open

CPU MULTIPLIER SELECTION (INTEL)	
Multiplier	JP31
2x	Pins 2 & 3 closed
2.5x	Pins 1 & 2 closed
3x	Open

CPU VOLTAGE SELECTION				
Voltage	JP24	JP25	JP26	JP35
3.3v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
4v	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Open
5v	Pins 2 & 3 closed	Pins 2 & 3 closed	Pins 2 & 3 closed	Open

VL BUS WAIT STATE SELECTION	
Setting	JP17
0	Open
1	Closed

VL-BUS SPEED SELECTION	
Setting	JP16
<= 33MHz	Open
>33 MHz	Closed