PC WARE INTERNATIONAL, INC.
MB-U88IVIPW02

Processor	CX486M6/80486SX/SL80486SX/CX486M7/U5/80486DX/AM486DX2/ AM486DX4/SL80486DX4/P24D
Processor Speed	25/33/40/50/66(internal)/75(internal)/80(internal)/100(internal)MHz
Chip Set	Unidentified
Max. Onboard DRAM	256MB
Cache	64/128/256/512/1024KB
BIOS	AMI
Dimensions	254mm x 218mm
I/O Options	32-bit VESA local bus slots (2), 32-bit PCI slots (4), IDE interfaces (2)
NPU Options	None
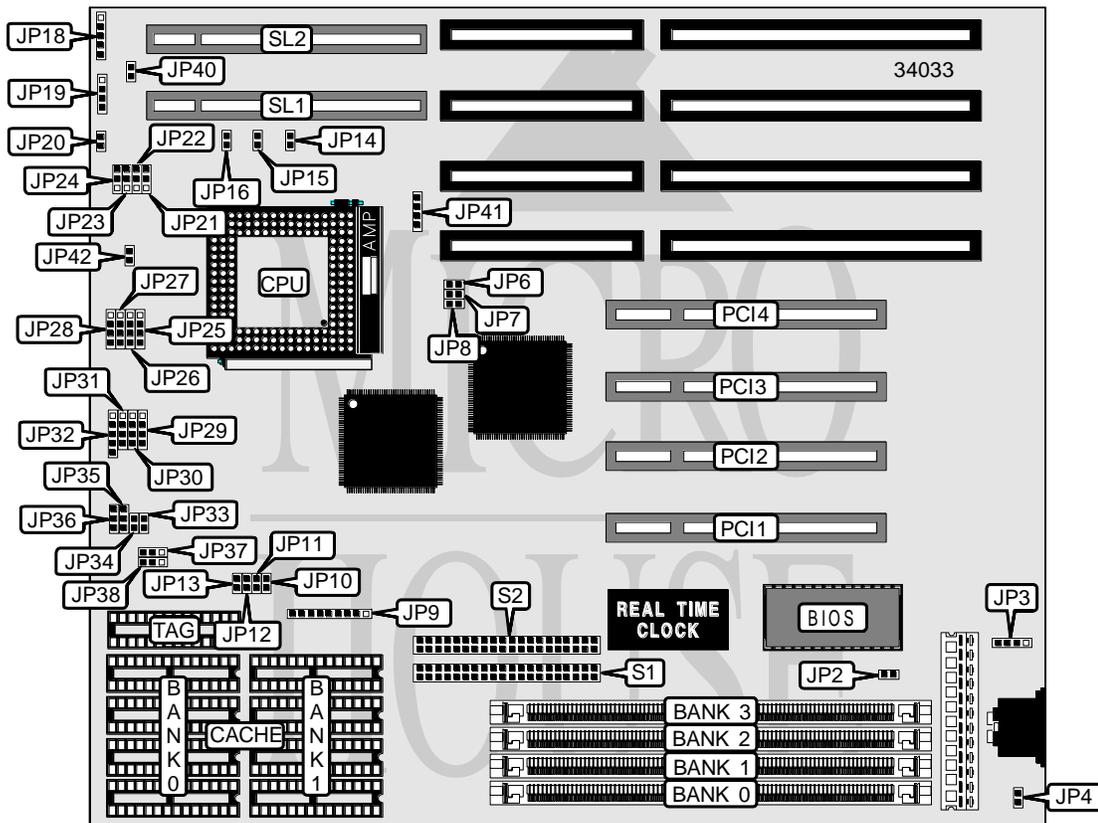
CONNECTIONS			
Purpose	Location	Purpose	Location
External battery	JP3	Turbo LED	JP20
Green PC connector (monitor)	JP4	IDE interface LED	JP40
Turbo switch	JP14	Chassis fan power	JP41
Reset switch	JP15	32-bit PCI slots	PCI1 - PCI4
Green PC connector	JP16	IDE interface (primary)	S1
Power LED & keylock	JP18	IDE interface (secondary)	S2
Speaker	JP19	32-bit VESA local bus slots	SL1 & SL2

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USER CONFIGURABLE SETTINGS		
Function	Jumper	Position
Flash BIOS voltage select 5v	JP2	Open
Flash BIOS voltage select 12v	JP2	Closed
í Battery type select internal	JP3	pins 2 & 3 closed
Battery type select external	JP3	Closed
CMOS memory clear	JP3	pins 3 & 4 closed
í Factory configured - do not alter	JP9	N/A
í Factory configured - do not alter	JP10	N/A
í Factory configured - do not alter	JP11	N/A
í Factory configured - do not alter	JP12	N/A
í Factory configured - do not alter	JP13	N/A

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
1MB	(1) 256K x 36	NONE	NONE	NONE
2MB	(1) 256K x 36	(1) 256K x 36	NONE	NONE
2MB	(1) 512K x 36	NONE	NONE	NONE
3MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	NONE
4MB	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36	(1) 256K x 36
4MB	(1) 512K x 36	(1) 512K x 36	NONE	NONE
4MB	(1) 1M x 36	NONE	NONE	NONE
5MB	(1) 1M x 36	NONE	(1) 256K x 36	NONE
6MB	(1) 1M x 36	NONE	(1) 256K x 36	(1) 256K x 36
6MB	(1) 1M x 36	NONE	(1) 512K x 36	NONE
8MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
8MB	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36	(1) 512K x 36
8MB	(1) 1M x 36	NONE	(1) 512K x 36	(1) 512K x 36
8MB	(1) 2M x 36	NONE	NONE	NONE
9MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	NONE
9MB	(1) 2M x 36	NONE	(1) 256K x 36	NONE
10MB	(1) 1M x 36	(1) 1M x 36	(1) 256K x 36	(1) 256K x 36
10MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	NONE
10MB	(1) 2M x 36	NONE	(1) 512K x 36	NONE
12MB	(1) 1M x 36	(1) 1M x 36	(1) 512K x 36	(1) 512K x 36
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	NONE
12MB	(1) 2M x 36	NONE	(1) 1M x 36	NONE
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
16MB	(1) 4M x 36	NONE	NONE	NONE
16MB	(1) 2M x 36	(1) 2M x 36	NONE	NONE
17MB	(1) 4M x 36	NONE	(1) 256K x 36	NONE
18MB	(1) 4M x 36	NONE	(1) 256K x 36	(1) 256K x 36
18MB	(1) 4M x 36	NONE	(1) 512K x 36	NONE
20MB	(1) 1M x 36	NONE	(1) 2M x 36	(1) 2M x 36
20MB	(1) 1M x 36	NONE	(1) 4M x 36	NONE
20MB	(1) 2M x 36	(1) 2M x 36	(1) 512K x 36	(1) 512K x 36
20MB	(1) 4M x 36	NONE	(1) 512K x 36	(1) 512K x 36

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Size	Bank 0	Bank 1	Bank 2	Bank 3
DRAM CONFIGURATION (CON'T)				
20MB	(1) 2M x 36	(1) 2M x 36	(1) 1M x 36	NONE
20MB	(1) 4M x 36	NONE	(1) 1M x 36	NONE
24MB	(1) 4M x 36	NONE	(1) 1M x 36	(1) 1M x 36
24MB	(1) 4M x 36	NONE	(1) 2M x 36	NONE
24MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	NONE
24MB	(1) 2M x 36	(1) 2M x 36	(1) 1M x 36	(1) 1M x 36
32MB	(1) 4M x 36	NONE	(1) 2M x 36	(1) 2M x 36
32MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
32MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
32MB	(1) 8M x 36	NONE	NONE	NONE
36MB	(1) 1M x 36	NONE	(1) 4M x 36	(1) 4M x 36
36MB	(1) 1M x 36	NONE	(1) 8M x 36	NONE
40MB	(1) 8M x 36	NONE	(1) 2M x 36	NONE
40MB	(1) 8M x 36	NONE	(1) 1M x 36	(1) 1M x 36
48MB	(1) 4M x 36	NONE	(1) 8M x 36	NONE
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	NONE
48MB	(1) 4M x 36	NONE	(1) 4M x 36	(1) 4M x 36
48MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	(1) 8M x 36	NONE	NONE
64MB	(1) 16M x 36	NONE	NONE	NONE
65MB	(1) 16M x 36	NONE	(1) 256K x 36	NONE
65MB	(1) 8M x 36	(1) 8M x 36	(1) 256K x 36	NONE
66MB	(1) 16M x 36	NONE	(1) 256K x 36	(1) 256K x 36
66MB	(1) 16M x 36	NONE	(1) 512K x 36	NONE
68MB	(1) 1M x 36	NONE	(1) 8M x 36	(1) 8M x 36
68MB	(1) 1M x 36	NONE	(1) 16M x 36	NONE
68MB	(1) 16M x 36	NONE	(1) 512K x 36	(1) 512K x 36
68MB	(1) 16M x 36	NONE	(1) 1M x 36	NONE
72MB	(1) 16M x 36	NONE	(1) 1M x 36	(1) 1M x 36
72MB	(1) 16M x 36	NONE	(1) 2M x 36	NONE
80MB	(1) 4M x 36	NONE	(1) 8M x 36	(1) 8M x 36
80MB	(1) 4M x 36	NONE	(1) 16M x 36	NONE
80MB	(1) 16M x 36	NONE	(1) 2M x 36	(1) 2M x 36
80MB	(1) 16M x 36	NONE	(1) 4M x 36	NONE
96MB	(1) 16M x 36	NONE	(1) 8M x 36	NONE
96MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	NONE
96MB	(1) 8M x 36	NONE	(1) 8M x 36	(1) 8M x 36
96MB	(1) 16M x 36	NONE	(1) 4M x 36	(1) 4M x 36
128MB	(1) 16M x 36	NONE	(1) 8M x 36	(1) 8M x 36
128MB	(1) 16M x 36	(1) 16M x 36	NONE	NONE
129MB	(1) 16M x 36	(1) 16M x 36	(1) 256K x 36	NONE
144MB	(1) 16M x 36	(1) 16M x 36	(1) 2M x 36	(1) 2M x 36
160MB	(1) 16M x 36	(1) 16M x 36	(1) 8M x 36	NONE
256MB	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36

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CPU TYPE CONFIGURATION					
Type	JP25	JP26	JP27	JP28	JP29
CX486M6	2 & 3	Open	1 & 2	2 & 3	1 & 2
80486SX	2 & 3	Open	Open	Open	2 & 3
SL80486SX	2 & 3	Open	1 & 2	Open	1 & 2
CX486M7	1 & 2, 3 & 4	3 & 4	1 & 2	2 & 3	1 & 2
U5	2 & 3	1 & 2, 3 & 4	2 & 3	Open	2 & 3
80486DX	1 & 2, 3 & 4	3 & 4	Open	Open	2 & 3
AM486DX2	1 & 2, 3 & 4	3 & 4	Open	Open	2 & 3
AM486DX4	1 & 2, 3 & 4	3 & 4	Open	Open	2 & 3
SL80486DX4	1 & 2, 3 & 4	3 & 4	1 & 2	Open	1 & 2
P24D	1 & 2, 3 & 4	3 & 4	1 & 2, 3 & 4	3 & 4	1 & 2

CPU TYPE CONFIGURATION (CON'T)				
Type	JP30	JP31	JP32	JP33
CX486M6	2 & 3	2 & 3	1 & 2, 3 & 4	Open
80486SX	Open	Open	Open	Closed
SL80486SX	1 & 2	Open	2 & 3, 4 & 5	Open
CX486M7	2 & 3	2 & 3	1 & 2, 3 & 4	Open
U5	Open	3 & 4	Open	Closed
80486DX	Open	Open	Open	Closed
AM486DX2	Open	Open	Open	Closed
AM486DX4	Open	Open	Open	Closed
SL80486DX4	1 & 2	Open	2 & 3, 4 & 5	Open
P24D	1 & 2, 3 & 4	Open	2 & 3, 4 & 5	Open

CPU TYPE CONFIGURATION (CON'T)				
Type	JP35	JP36	JP37	JP38
CX486M6	1 & 2	Open	1 & 2	2 & 3
80486SX	Open	2 & 3	1 & 2	1 & 2
SL80486SX	Open	2 & 3	1 & 2	1 & 2
CX486M7	1 & 2	Open	1 & 2	2 & 3
U5	Open	2 & 3	2 & 3	1 & 2
80486DX	Open	2 & 3	1 & 2	1 & 2
AM486DX2	Open	2 & 3	1 & 2	1 & 2
AM486DX4	Open	1 & 2	1 & 2	1 & 2
SL80486DX4	Open	2 & 3	1 & 2	1 & 2
P24D	Open	1 & 2	1 & 2	1 & 2

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CPU SPEED CONFIGURATION			
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

CPU SPEED SELECT CONFIGURATION (80486DX4 ONLY)	
Speed	JP34
2X	Closed
3X	Open

CPU VOLTAGE CONFIGURATION					
Voltage	JP21	JP22	JP23	JP24	JP42
3.3 v	1 & 2	1 & 2	1 & 2	1 & 2	Closed
4 v	1 & 2	1 & 2	1 & 2	1 & 2	Open
5 v	2 & 3	2 & 3	2 & 3	2 & 3	Closed
Note: Pins designated should be in the closed position.					