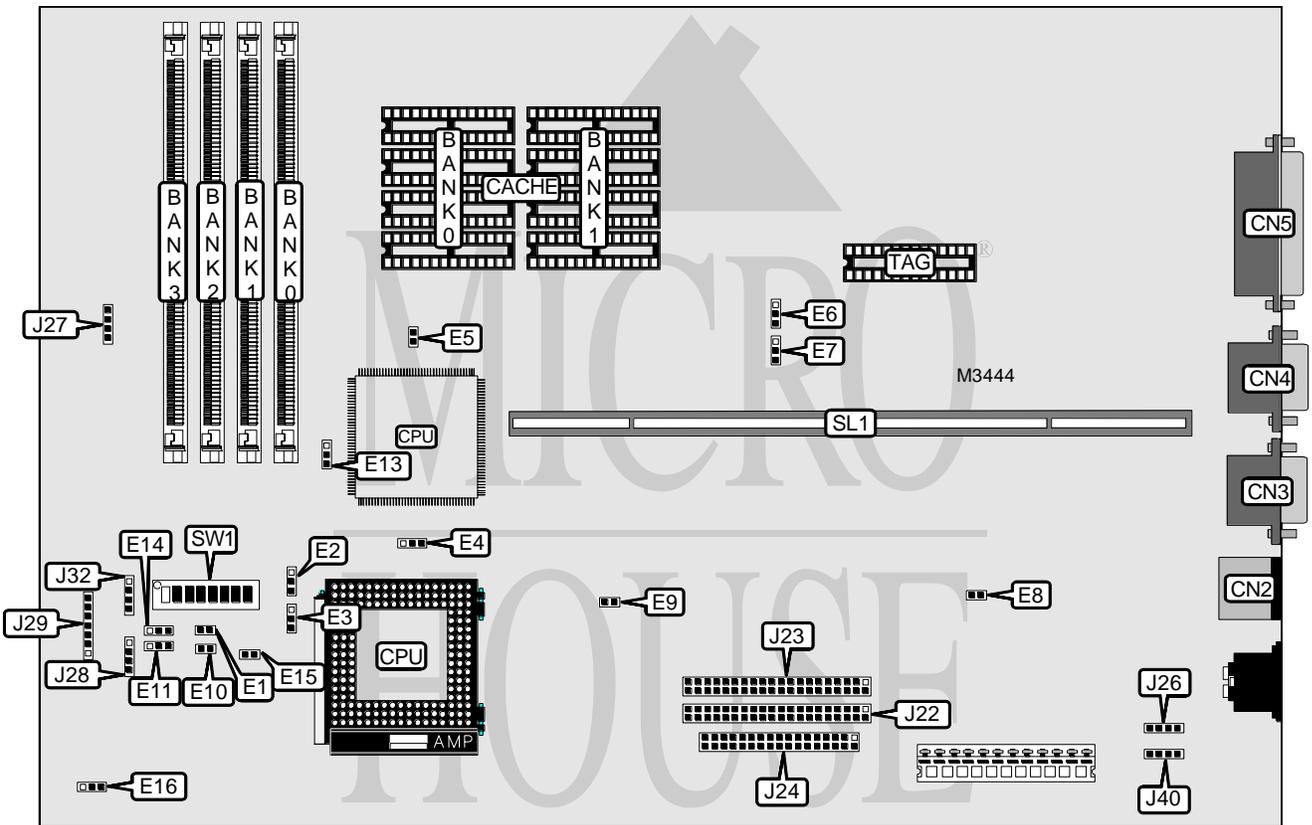


# AST RESEARCH, INC.

## PREMMIA MX 4/66D, PREMMIA MX 4/100T

<b>Processor</b>	80486SX/486 Overdrive/80486DX/80486DX2/80486DX4/P24T
<b>Processor Speed</b>	25/33/50(internal)/66(internal)/100(internal)MHz
<b>Chip Set</b>	Unidentified
<b>Video Chip Set</b>	ATI
<b>Maximum Onboard Memory</b>	128MB
<b>Maximum Video Memory</b>	4MB
<b>Cache</b>	64/256KB
<b>BIOS</b>	Unidentified
<b>Dimensions</b>	330mm x 218mm
<b>I/O Options</b>	Floppy drive interface, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), riser slot
<b>NPU Options</b>	None



  
 LOCATION UNIDENTIFIED

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CONNECTIONS			
Purpose	Location	Purpose	Location
PS/2 mouse port	CN2	External battery	J26
Serial port	CN3	Speaker	J27
Serial port	CN4	Chassis fan power	J28
Parallel port	CN5	Front console LED	J29 pins 1 - 4
IDE interface 1	J22	Chassis fan power	J32
IDE interface 2	J23	IDE interface LED	J40
Floppy drive interface	J24	Riser slot	SL1

USER CONFIGURABLE SETTINGS		
Function	Label	Position
í Factory configured - do not alter	E6	Pins 1 & 2 closed
í CMOS memory normal operation	E8	Open
CMOS memory clear	E8	Closed
í Flash BIOS normal operation	SW1/1	Off
Flash BIOS force update at boot	SW1/1	On
í Password normal operation	SW1/2	On
Password clear	SW1/2	Off
í Monitor type select color	SW1/3	On
Monitor type select monochrome	SW1/3	Off
í Setup access enabled	SW1/4	Off
Setup access disabled	SW1/4	On
í Factory configured - do not alter	SW1/5	Off
í Factory configured - do not alter	SW1/6	On
í Factory configured - do not alter	SW1/7	On
í Factory configured - do not alter	SW1/8	On

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
4MB	(1) 1M x 32	None	None	None
8MB	(1) 2M x 32	None	None	None
8MB	(1) 1M x 32	(1) 1M x 32	None	None
9MB	(1) 1M x 32	(1) 1M x 32	(1) 256K x 32	None
10MB	(1) 1M x 32	(1) 1M x 32	(1) 256K x 32	(1) 256K x 32
12MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	None
16MB	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32	(1) 1M x 32
16MB	(1) 4M x 32	None	None	None
17MB	(1) 2M x 32	(1) 2M x 32	(1) 256K x 32	None
18MB	(1) 2M x 32	(1) 2M x 32	(1) 256K x 32	(1) 256K x 32
20MB	(1) 2M x 32	(1) 2M x 32	(1) 1M x 32	None
24MB	(1) 2M x 32	(1) 2M x 32	(1) 1M x 32	(1) 1M x 32

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DRAM CONFIGURATION (CON'T)				
Size	Bank 0	Bank 1	Bank 2	Bank 3
24MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	None
32MB	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32	(1) 2M x 32
32MB	(1) 8M x 32	None	None	None
32MB	(1) 4M x 32	(1) 4M x 32	None	None
33MB	(1) 4M x 32	(1) 4M x 32	(1) 256K x 32	NONE
34MB	(1) 4M x 32	(1) 4M x 32	(1) 256K x 32	(1) 256K x 32
36MB	(1) 4M x 32	(1) 4M x 32	(1) 1M x 32	NONE
40MB	(1) 4M x 32	(1) 4M x 32	(1) 1M x 32	(1) 1M x 32
40MB	(1) 4M x 32	(1) 4M x 32	(1) 2M x 32	NONE
48MB	(1) 4M x 32	(1) 4M x 32	(1) 2M x 32	(1) 2M x 32
48MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	NONE
64MB	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32	(1) 4M x 32
64MB	(1) 8M x 32	(1) 8M x 32	NONE	NONE
66MB	(1) 8M x 32	(1) 8M x 32	(1) 256K x 32	(1) 256K x 32
68MB	(1) 8M x 32	(1) 8M x 32	(1) 1M x 32	NONE
72MB	(1) 8M x 32	(1) 8M x 32	(1) 1M x 32	(1) 1M x 32
72MB	(1) 8M x 32	(1) 8M x 32	(1) 2M x 32	NONE
80MB	(1) 8M x 32	(1) 8M x 32	(1) 2M x 32	(1) 2M x 32
80MB	(1) 8M x 32	(1) 8M x 32	(1) 4M x 32	NONE
96MB	(1) 8M x 32	(1) 8M x 32	(1) 4M x 32	(1) 4M x 32
96MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	NONE
128MB	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32	(1) 8M x 32

CACHE CONFIGURATION			
Size	Bank 0	Bank 1	TAG
64KB	(4) 8K x 8	(4) 8K x 8	(1) 8K x 9
256KB	(4) 32K x 8	(4) 32K x 8	(1) 32K x 9

CACHE JUMPER CONFIGURATION	
Size	E5
64KB	Open
256KB	Closed

CPU SPEED SELECTION		
Speed	E7	E9
25MHz	Pins 1 & 2 closed	Closed
33MHz	Pins 2 & 3 closed	Open
50iMHz	Pins 1 & 2 closed	Closed
66iMHz	Pins 2 & 3 closed	Open
100iMHz	Pins 1 & 2 closed	Closed

Note: If 100iMHz is used, jumper E4 must be open.

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CPU SPEED SELECTION (80486DX4 ONLY)	
Voltage	E4
2x	Pins 2 & 3 closed
2.5x	Pins 1 & 2 closed
3x	Open

CPU TYPE SELECTION				
Type	E1	E2	E3	E10
80486SX (PQFP)	Open	Pins 2 & 3 closed	Pins 1 & 2 closed	Closed
486 Overdrive	Open	Pins 2 & 3 closed	Pins 1 & 2 closed	Closed
80486DX	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
80486DX2	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
80486DX2 (WB)	Open	Pins 1 & 2 closed	Pins 2 & 3 closed	Open
80486DX4	Open	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
P24T	Open	Pins 2 & 3 closed	Pins 2 & 3 closed	Open
Note: E10 may not be present not on all boards. To use write through cache on P24T, set E1 to the closed position.				

CPU VOLTAGE CONFIGURATION						
Voltage	E11	E12	E13	E14	E15	E16
3v Cyrix	2 & 3	2 & 3	2 & 3	2 & 3	Open	1 & 2
3v Intel	1 & 2	1 & 2	1 & 2	1 & 2	Closed	2 & 3
5v Cyrix	2 & 3	2 & 3	2 & 3	2 & 3	Open	Open
5v Intel	1 & 2	1 & 2	1 & 2	1 & 2	Closed	Open
Note: Pins designated should be in the closed position. The location of E12 is unidentified. The above jumpers may not be present on all boards. If these jumpers are not present, only Intel CPUs may be used.						