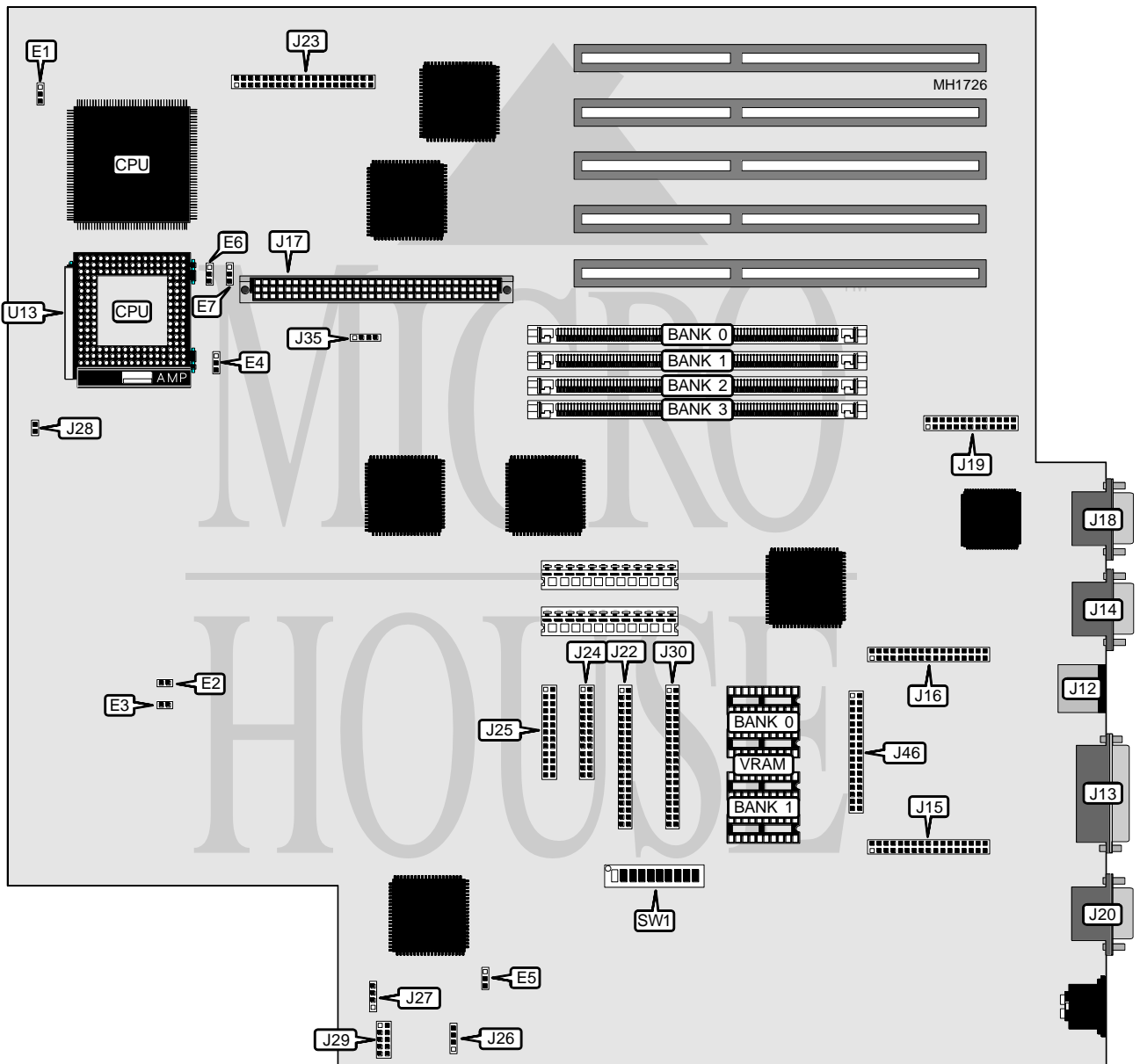


# AST RESEARCH, INC. PREMMIA SYSTEM BOARD (P/N202514-00X)

<b>Processor</b>	80486SX/80487SX/80486DX/ODP486SX/80486DX2/Pentium
<b>Processor Speed</b>	25/33/50(internal)/66(internal)MHz
<b>Chip Set</b>	ATI
<b>Max. Onboard DRAM</b>	128MB
<b>Cache</b>	64/256KB (Located on the external cache module)
<b>BIOS</b>	AST
<b>Dimensions</b>	355mm x 304mm
<b>I/O Options</b>	Cache/Pentium upgrade module, floppy drive interface (2), IDE interface, parallel port, PS/2 mouse port, serial ports (2), VGA feature connector, video port
<b>NPU Options</b>	None



Continued on next page . . .

# AST RESEARCH, INC.

## PREMMIA SYSTEM BOARD (P/N202514-00X)

... continued from previous page

CONNECTIONS			
Purpose	Location	Purpose	Location
Bus mouse port	J12	Manufacturer's test header	J23
Parallel port	J13	Floppy drive interface 1 & 2	J24
Serial port 1	J14	Floppy drive interface 3	J25
Personality/feature connector	J15	External battery	J26
Personality/feature connector	J16	Speaker	J27
Pentium/Cache module upgrade	J17	Chassis fan power	J28
SVGA monitor port	J18	Front console header	J29
VGA port	J19	Manufacturer's test header	J30
Serial port 2	J20	IDE interface LED	J35
IDE interface	J22	Personality/feature connector	J46

Note: The personality/feature connectors allow various network modules to be added to the system.

USER CONFIGURABLE SETTINGS		
Function	Jumper/Switch	Position
í Factory configured - do not alter	E2	Open
í Parity checking enabled	E3	Closed
Parity checking disabled	E3	Open
í Flash BIOS voltage 12V	E5	pins 2 & 3 closed
Flash BIOS voltage 5V	E5	pins 1 & 2 open
í VGA enabled	SW1/switch 1	On
VGA disabled	SW1/switch 1	Off
í Factory configured - do not alter	SW1/switch 2	N/A
í CMOS memory normal operation	SW1/switch 3	Off
CMOS memory clear	SW1/switch 3	On
í BIOS normal operation	SW1/switch 4	Off
BIOS forced update	SW1/switch 4	On
í Password override	SW1/switch 5	Off
Password inhibited	SW1/switch 5	On
í Factory configured - do not alter	SW1/switch 6	Off
í Factory configured - do not alter	SW1/switch 7	Off
í Factory configured - do not alter	SW1/switch 8	Off
í Factory configured - do not alter	SW1/switch 9	Off
í Monitor type select color	SW1/switch 10	On
Monitor type select monochrome	SW1/switch 10	Off

Continued on next page . . .

AST RESEARCH, INC.

## PREMMIA SYSTEM BOARD (P/N202514-00X)

... continued from previous page

DRAM CONFIGURATION				
Size	Bank 0	Bank 1	Bank 2	Bank 3
2MB	(1) 1M x 36	(1) 1M x 36	NONE	NONE
4MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
4MB	(1) 2M x 36	(1) 2M x 36	NONE	NONE
6MB	(1) 1M x 36	(1) 1M x 36	(1) 2M x 36	(1) 2M x 36
8MB	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36	(1) 2M x 36
8MB	(1) 4M x 36	(1) 4M x 36	NONE	NONE
10MB	(1) 1M x 36	(1) 1M x 36	(1) 4M x 36	(1) 4M x 36
12MB	(1) 2M x 36	(1) 2M x 36	(1) 4M x 36	(1) 4M x 36
16MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
16MB	(1) 8M x 36	(1) 8M x 36	NONE	NONE
18MB	(1) 1M x 36	(1) 1M x 36	(1) 8M x 36	(1) 8M x 36
20MB	(1) 2M x 36	(1) 2M x 36	(1) 8M x 36	(1) 8M x 36
24MB	(1) 4M x 36	(1) 4M x 36	(1) 8M x 36	(1) 8M x 36
32MB	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36	(1) 8M x 36
32MB	(1) 16M x 36	(1) 16M x 9	NONE	NONE
34MB	(1) 1M x 36	(1) 1M x 36	(1) 16M x 36	(1) 16M x 36
36MB	(1) 2M x 36	(1) 2M x 36	(1) 16M x 36	(1) 16M x 36
40MB	(1) 4M x 36	(1) 4M x 36	(1) 16M x 36	(1) 16M x 36
48MB	(1) 8M x 36	(1) 8M x 36	(1) 16M x 36	(1) 16M x 36
64MB	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36	(1) 16M x 36
64MB	(1) 32M x 36	(1) 32M x 36	NONE	NONE
66MB	(1) 1M x 36	(1) 1M x 36	(1) 32M x 36	(1) 32M x 36
68MB	(1) 2M x 36	(1) 2M x 36	(1) 32M x 36	(1) 32M x 36
72MB	(1) 4M x 36	(1) 4M x 36	(1) 32M x 36	(1) 32M x 36
80MB	(1) 8M x 36	(1) 8M x 36	(1) 32M x 36	(1) 32M x 36
96MB	(1) 16M x 36	(1) 16M x 36	(1) 32M x 36	(1) 32M x 36
128MB	(1) 32M x 36	(1) 32M x 36	(1) 32M x 36	(1) 32M x 36

CPU TYPE CONFIGURATION						
PQFP	PGA	Pentium	E1	E4	E6	E7
80486SX	None	None	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
80486SX	80487SX	None	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
80486SX	ODP486SX	None	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
80486SX	80486DX/80486DX2	None	pins 1 & 2	pins 2 & 3	pins 1 & 2	pins 1 & 2
80486DX	None	None	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
80486DX	80486DX/80486DX2	None	pins 1 & 2	pins 2 & 3	pins 1 & 2	pins 1 & 2
80486DX	ODP486SX	None	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
None	80486SX	None	Open	Open	pins 2 & 3	pins 2 & 3
None	80486DX/80486DX2	None	Open	pins 2 & 3	pins 1 & 2	pins 1 & 2
None	ODP486SX	None	Open	pins 1 & 2	pins 1 & 2	pins 1 & 2
Any	None	Yes	pins 2 & 3	pins 1 & 2	pins 1 & 2	pins 1 & 2
None	None	Yes	Open	pins 1 & 2	pins 1 & 2	pins 1 & 2

Note: Pins designated should be in the closed position.  
Before installing the Pentium upgrade board, remove the processor in the ZIF socket at U13.

Continued on next page . . .

AST RESEARCH, INC.  
PREMMIA SYSTEM BOARD (P/N202514-00X)

*... continued from previous page*

VIDEO MEMORY CONFIGURATION		
Size	Bank 0	Bank 1
1MB	(2) 46256	(2) 46256
2MB	(2) 46256	(2) 46256