

MB-PAM-0030P  
586 MOTHERBOARD LAYOUT AND CONFIGURATION

S=SHORTED      O=OPEN  
1-2 = PINS 1 AND 2 SHORTED

CONNECTORS AND JUMPERS:

<p>HARDWARE RESET (J1) 1 = GROUND 2 = RESET</p> <p>SPEAKER CONNECTOR (J2) 1 = SIGNAL 2 = VCC 3 = SIGNAL 4 = VCC</p> <p>VESA BUS WAIT STATE (JP3) S = ONE WAIT STATE 0 = ZERO WAIT STATE</p> <p>CPU TYPE SELECTION (JP1, JP2)</p> <table border="0" style="margin-left: 40px;"> <tr><td></td><td>JP1</td><td>JP2</td></tr> <tr><td>386</td><td>0</td><td>S</td></tr> <tr><td>486</td><td>S</td><td>0</td></tr> <tr><td>X86</td><td>S</td><td>S</td></tr> </table> <p>CPU CLOCK SELECTION (JP6 - JP8)</p> <table border="0" style="margin-left: 40px;"> <tr><td></td><td>JP6</td><td>JP7</td><td>JP8</td></tr> <tr><td>50MHZ</td><td>S</td><td>0</td><td>0</td></tr> <tr><td>60MHZ</td><td>0</td><td>S</td><td>0</td></tr> <tr><td>66MHZ</td><td>S</td><td>0</td><td>S</td></tr> </table> <p>MONITOR STANDBY TIMER SELECTION (JP11 - JP13)</p> <table border="0" style="margin-left: 40px;"> <tr><td></td><td>JP11</td><td>JP12</td><td>JP13</td></tr> <tr><td>12MIN</td><td>S</td><td>0</td><td>0</td></tr> <tr><td>6MIN</td><td>0</td><td>S</td><td>0</td></tr> <tr><td>3MIN</td><td>0</td><td>0</td><td>S</td></tr> </table> <p>SYSTEM POWER MANAGEMENT SLECTION (JP14 - JP16)</p> <table border="0" style="margin-left: 40px;"> <tr><td></td><td>JP14</td><td>JP15</td><td>JP16</td></tr> <tr><td>24MIN</td><td>S</td><td>0</td><td>0</td></tr> <tr><td>12MIN</td><td>0</td><td>S</td><td>0</td></tr> <tr><td>6MIN</td><td>0</td><td>0</td><td>S</td></tr> </table> <p>CACHE SIZE SELECTION (JP17 - JP21, JP24)</p> <table border="0" style="margin-left: 40px;"> <tr><td></td><td>JP17</td><td>JP18</td><td>JP19</td><td>JP20</td><td>JP21</td><td>JP24</td></tr> <tr><td>64KB</td><td>0</td><td>0</td><td>0</td><td>2-3</td><td>2-3</td><td>2-3</td></tr> <tr><td>128KB</td><td>S</td><td>0</td><td>0</td><td>1-2</td><td>1-2</td><td>1-2</td></tr> </table>		JP1	JP2	386	0	S	486	S	0	X86	S	S		JP6	JP7	JP8	50MHZ	S	0	0	60MHZ	0	S	0	66MHZ	S	0	S		JP11	JP12	JP13	12MIN	S	0	0	6MIN	0	S	0	3MIN	0	0	S		JP14	JP15	JP16	24MIN	S	0	0	12MIN	0	S	0	6MIN	0	0	S		JP17	JP18	JP19	JP20	JP21	JP24	64KB	0	0	0	2-3	2-3	2-3	128KB	S	0	0	1-2	1-2	1-2	<p>KEYLOCK AND POWER LED (J3) 1 = LED POWER 2 = NOT USED 3 = GROUND 4 = KEYBOARD INHIBITOR 5 = GROUND</p> <p>FAN POWER CONNECTOR (J4) 1 = +12 VDC 2 = GROUND 3 = GROUND 4 = +5 VDC</p> <p>CPU SPEED ID FOR VL-BUS (JP4) S = HIGHER THAN 33MHZ 0 = EQUAL OR UNDER 33</p> <p>TURBO SWITCH CONNECTOR (JP9) 1 = SELECT PIN 2 = GROUND</p> <p>TURBO LED CONNECTOR (JP10) 1 = +5 VDC 2 = INDICATE PIN</p>
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256KB	S	S	0	2-3	2-3	2-3
512KB	S	S	S	1-2	1-2	1-2

INTERNAL/EXTERNAL VL-BUS LCLK SELECTION (JP22, JP23, JP28)

	JP22	JP23	JP26
ASync	1-2	1-2	S
Sync	2-3	2-3	0

MDHDOE# INACTIE SELECTION (JP25)

S = END OF LAST T2  
 0 = BEGINNING OF LAST T2

BACK TO BACK IO DELAY (JP29)

S = ENABLE  
 0 = DISABLE

AT CLK SELECTION (JP27 - JP28)

(JP30)

	JP27	JP28
LCLK/5	S	S
LCLK/4	0	S
LCLK/3	S	0
LCLK/2	0	0

LDEV# SAMPLE SELECTION

S = END OF SECOND T2  
 0 = END OF FIRST T2

LOCAL BUS SELECTION (JP31)

S = VL-BUS DISABLED  
 0 = VL-BUS

ENABLED

VIDEO SELECTION (JP32)

S = COLOR  
 0 = MONOCHROME

POWER MANAGEMENT IRQ (JP34)

2-3 = IRQ 15  
 1-2 = IRQ 12

BATTERY SELECTION (JP33)

1-2 = DISCHARGE  
 2-3 = INTERNAL BATTERY

TESTING SELECTION (JP35)

S = FOR QUICK TEST

ONLY

0 = DEFAULT

0 = NORMAL

APPLICATION

EXTERNAL BATTERY CONNECTOR (J20)

1 = 6 VDC  
 2 = NOT USED  
 3 = GROUND  
 4 = GROUND

KEYBOARD CONNECTOR (J23)

POWER SUPPLY CONNECTOR (J21 - J22)

MEMORY INSTALLATION:

THIS MOTHERBOARD HAS 4 SIMM SOCKETS. THE USER CAN INSTALL 256KB, 1/4MB SIMMS. 70 ns SIMMS OR FASTER IS REQUIRED.