TMC RESEARCH CORPORATION
P A T 4 8 A G 4 (V E R . 1 . 2 B)

Processor	CX486SX/80486SX/SL80486SX/ODP486/CX486DX/AM486DXL/ 80486DX/SL80486DX/80486DX2/SL80486DX2/SL80486DX4/P24T
Processor Speed	25/33/40/50(internal)/50/66(internal)/83(internal)/100(internal)MHz
Chip Set	ALI
Video Chip Set	None
Maximum Onboard Memory	128MB
Maximum Video Memory	None
Cache	128/256KB
BIOS	Unidentified
Dimensions	254mm x 218mm
I/O Options	32-bit VESA local bus slots (3), green PC connector
NPU Options	None
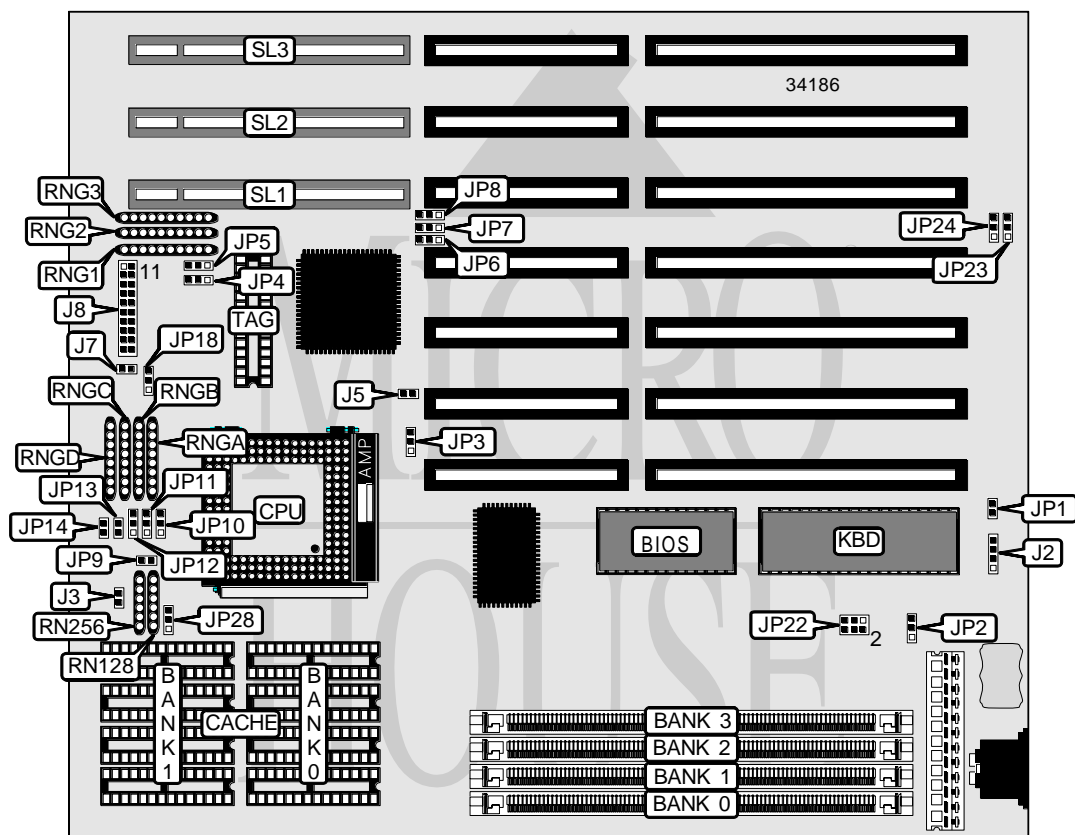
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CONNECTIONS			
Purpose	**Location**	**Purpose**	**Location**
External battery	J2	Turbo LED	J8 pins 8 & 18
Green PC connector	J3	Reset switch	J8 pins 9 & 19
Green PC LED	J5	IDE interface LED	J8 pins 10 & 20
IDE interface LED	J7	Power LED & keylock	J8 pins 11 - 15
Speaker	J8 pins 1 – 4	32-bit VESA local bus slots	SL1 – SL3
Turbo switch	J8 pins 7 & 17		

USER CONFIGURABLE SETTINGS		
Function	**Label**	**Position**
Monitor type select color	JP1	Closed
Monitor type select monochrome	JP1	Open
Battery type select internal	JP2	Pins 1 & 2 closed
Battery type select external	JP2	Pins 1 & 2 closed
CMOS memory clear	JP2	Pins 2 & 3 closed
BIOS type select EPROM	W4	Pins 1 & 2 closed
BIOS type select flash BIOS	W4	Pins 2 & 3 closed

DRAM CONFIGURATION 1				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
4MB	(1) 512K x 36	None	(1) 512K x 36	None
12MB	(1) 2M x 36	None	(1) 1M x 36	None
12MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	None
16MB	(1) 2M x 36	None	(1) 2M x 36	None
16MB	(1) 2M x 36	None	(1) 1M x 36	(1) 1M x 36
16MB	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
24MB	(1) 2M x 36	None	(1) 4M x 36	None
24MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	None
28MB	(1) 4M x 36	(1) 1M x 36	(1) 2M x 36	None
28MB	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36	(1) 1M x 36
36MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	None
36MB	(1) 8M x 36	None	(1) 1M x 36	None
40MB	(1) 4M x 36	(1) 4M x 36	(1) 1M x 36	(1) 1M x 36
40MB	(1) 4M x 36	(1) 4M x 36	(1) 2M x 36	None
40MB	(1) 8M x 36	None	(1) 1M x 36	(1) 1M x 36
40MB	(1) 8M x 36	None	(1) 2M x 36	None
48MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	None
48MB	(1) 8M x 36	None	(1) 4M x 36	None
64MB	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	None	(1) 4M x 36	(1) 4M x 36
64MB	(1) 8M x 36	None	(1) 8M x 36	None
96MB	(1) 16M x 36	(1) 4M x 36	(1) 4M x 36	None
96MB	(1) 8M x 36	None	(1) 16M x 36	None
112MB	(1) 16M x 36	(1) 4M x 36	(1) 4M x 36	(1) 4M x 36
112MB	(1) 16M x 36	(1) 4M x 36	(1) 8M x 36	None

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DRAM CONFIGURATION 2				
Size	**Bank 0**	**Bank 1**	**Bank 2**	**Bank 3**
4MB	(1) 1M x 36	None	None	None
8MB	(1) 2M x 36	None	None	None
8MB	(1) 1M x 36	(1) 1M x 36	None	None
16MB	(1) 4M x 36	None	None	None
20MB	(1) 4M x 36	(1) 1M x 36	None	None
32MB	(1) 4M x 36	(1) 4M x 36	None	None
32MB	(1) 8M x 36	None	None	None
64MB	(1) 16M x 36	None	None	None
80MB	(1) 16M x 36	(1) 4M x 36	None	None
128MB	(1) 32M x 36	None	None	None
128MB	(1) 16M x 36	(1) 16M x 36	None	None

DRAM/VL MASTER SLOT SELECTION		
Configuration	**VL-master slot**	**JP18**
1	SL1, SL2 or SL3	Pins 1 & 2 closed
2	SL1	Pins 2 & 3 closed

CACHE CONFIGURATION			
Size	**Bank 0**	**Bank 1**	**TAG**
128KB	(4) 32K x 8	None	(1) 8K x 8
256KB	(4) 32K x 8	(4) 32K x 8	(1) 16K x 8

CACHE JUMPER CONFIGURATION		
Size	**RN128**	**RN256**
128KB	Installed	Not installed
256KB	Not installed	Installed

CPU SPEED SELECTION						
Speed	**JP3**	**JP4**	**JP5**	**JP22**	**JP23**	**JP24**
25MHz	1 & 2	1 & 2	1 & 2	1 & 2, 5 & 6	1 & 2	1 & 2
33MHz	1 & 2	1 & 2	1 & 2	3 & 4, 5 & 6	1 & 2	1 & 2
40MHz	2 & 3	2 & 3	2 & 3	1 & 2, 3 & 4	2 & 3	2 & 3
50iMHz	1 & 2	1 & 2	1 & 2	1 & 2, 5 & 6	1 & 2	1 & 2
50MHz	2 & 3	2 & 3	2 & 3	1 & 2, 5 & 6	2 & 3	2 & 3
66iMHz	1 & 2	1 & 2	1 & 2	3 & 4, 5 & 6	1 & 2	1 & 2
83iMHz	1 & 2	1 & 2	1 & 2	3 & 4, 5 & 6	1 & 2	1 & 2
100iMHz (2x)	2 & 3	2 & 3	2 & 3	1 & 2, 5 & 6	2 & 3	2 & 3
100iMHz (3x)	1 & 2	1 & 2	1 & 2	3 & 4, 5 & 6	1 & 2	1 & 2
Note: Pins designated should be in the closed position.						

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CPU TYPE SELECTION				
Type	**JP6**	**JP7**	**JP8**	**JP9**
CX486SX	Pins 2 & 3 closed	Pins 1 & 2 closed	Pins 2 & 3 closed	Closed
80486SX	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
SL80486SX	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
ODP486	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
CX486DX	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
AM486DXL	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
80486DX	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
SL80486DX	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
80486DX2	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
SL80486DX2	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
SL80486DX4	Pins 1 & 2 closed	Pins 1 & 2 closed	Pins 1 & 2 closed	Closed
P24T	Pins 1 & 2 closed	Pins 2 & 3 closed	Pins 1 & 2 closed	Open

CPU TYPE SELECTION (CON'T)					
Type	**JP10**	**JP11**	**JP12**	**JP13**	**JP14**
CX486SX	1 & 2	Open	1 & 2	Open	Open
80486SX	1 & 2	Open	1 & 2	Open	Open
SL80486SX	1 & 2	Open	1 & 2	Open	Open
ODP486	1 & 2	1 & 2	2 & 3	Open	Open
CX486DX	1 & 2	2 & 3	2 & 3	Open	Open
AM486DXL	1 & 2	2 & 3	2 & 3	Open	Open
80486DX	1 & 2	2 & 3	2 & 3	Open	Open
SL80486DX	1 & 2	2 & 3	2 & 3	Open	Open
80486DX2	1 & 2	2 & 3	2 & 3	Open	Open
SL80486DX2	1 & 2	2 & 3	2 & 3	Open	Open
SL80486DX4	1 & 2	2 & 3	2 & 3	Open	Open
P24T	1 & 2	1 & 2	2 & 3	Open	Closed
Note: Pins designated should be in the closed position.					

CPU TYPE SELECTION (CON'T)			
Type	**RNG1**	**RNG2**	**RNG3**
CX486SX	Not installed	Installed	Not installed
80486SX	Installed	Not installed	Not installed
SL80486SX	Installed	Not installed	Not installed
ODP486	Installed	Not installed	Not installed
CX486DX	Installed	Not installed	Not installed
AM486DXL	Installed	Not installed	Not installed
80486DX	Installed	Not installed	Not installed
SL80486DX	Installed	Not installed	Not installed
80486DX2	Installed	Not installed	Not installed
SL80486DX2	Installed	Not installed	Not installed
SL80486DX4	Installed	Not installed	Not installed
P24T	Not installed	Not installed	Installed

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CPU TYPE SELECTION (CON'T)				
Type	**RNGA**	**RNGB**	**RNGC**	**RNGD**
CX486SX	Not installed	Installed	Not installed	Not installed
80486SX	Not installed	Not installed	Not installed	Not installed
SL80486SX	Installed	Not installed	Not installed	Not installed
ODP486	Not installed	Not installed	Not installed	Not installed
CX486DX	Not installed	Installed	Not installed	Not installed
AM486DXL	Not installed	Not installed	Installed	Not installed
80486DX	Not installed	Not installed	Not installed	Not installed
SL80486DX	Installed	Not installed	Not installed	Not installed
80486DX2	Not installed	Not installed	Not installed	Not installed
SL80486DX2	Installed	Not installed	Not installed	Not installed
SL80486DX4	Installed	Not installed	Not installed	Not installed
P24T	Not installed	Not installed	Not installed	Installed

CPU MULTIPLIER SELECTION	
Multiplier	**JP28**
83iMHz	Pins 2 & 3 closed
100iMHz (2x)	Pins 1 & 2 closed
100iMHz (3x)	Open
Non DX4 installed	Open