# TMC RESEARCH CORPORATION
# PCI48AL (VER. 0.10)

| | |
|---|---|
| **Processor** | 80486SX/SL80486SX//80487SX/CX486DX/80486DX/AM486DXL/SL80486DX/ODP486SX/CX486DX2/80486DX2/SL80486DX2/80486DX4/P24C/P24D/ P24CP/Pentium Overdrive |
| **Processor Speed** | 25/33/40/50(internal)/50/66(internal)/75(internal)/100(internal)MHz |
| **Chip Set** | Unidentified |
| **Max. Onboard DRAM** | 128MB |
| **Cache** | 128/256KB |
| **BIOS** | Unidentified |
| **Dimensions** | 330mm x 218mm |
| **I/O Options** | 32-bit PCI slots (3), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, serial ports (2) |
| **NPU Options** | None |



| CONNECTIONS | | | |
|---|---|---|---|
| Purpose | Location | Purpose | Location |
| Serial port 1 | CN1 | Turbo switch | J12 pins 7 & 17 |
| Serial port 2 | CN2 | Turbo LED | J12 pins 8 & 18 |
| Parallel port | CN3 | Reset switch | J12 pins 9 & 19 |
| Floppy drive interface | CN4 | IDE interface LED | J12 pins 10 & 20 |
| IDE interface (primary) | CN5 | Power LED & keylock | J12 pins 11 -15 |
| IDE interface (secondary) | CN6 | 32-bit PCI slots | PCI1 - PCI3 |
| External battery | J9 | Green PC connector | SW |
| Speaker | J12 pins 1 - 4 | | |
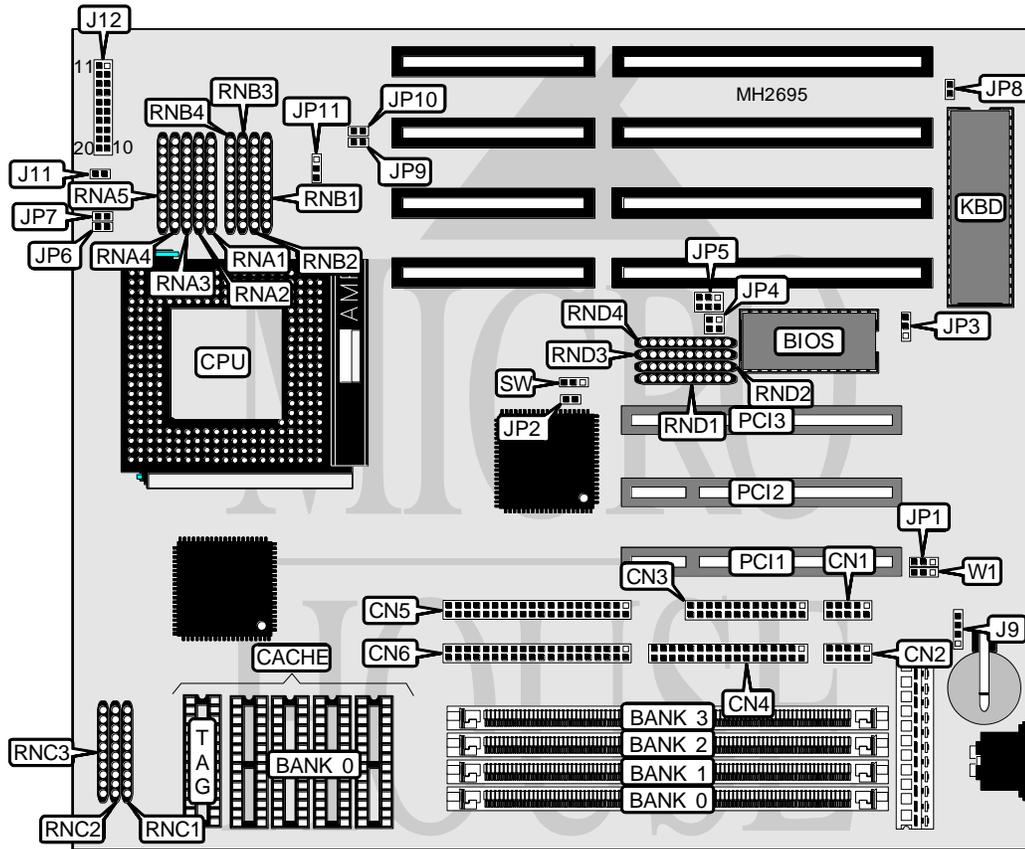
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| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| Function | Jumper | Position |
| í  Battery type select internal | JP1 | pins 2 & 3 closed |
| Battery type select external | JP1 | Open |
| CMOS memory clear | JP1 | pins 1 & 2 closed |
| í  IDE interface enabled | JP2 | Closed |
| IDE interface disabled | JP2 | Open |
| í  BIOS type select normal | JP3 | pins 2 & 3 closed |
| BIOS type select flash | JP3 | pins 1 & 2 closed |
| í  Monitor type select color | JP8 | Closed |
| Monitor type select monochrome | JP8 | Open |
| í  Factory configured - do not alter | JP11 | N/A |
| í  Factory configured - do not alter | W1 | N/A |

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

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| DRAM CONFIGURATION (CON'T) | | | |
|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 17MB | NONE | NONE | (1) 4M x 36 | (1) 256K x 36 |
| 20MB | NONE | NONE | (1) 4M x 36 | (1) 1M x 36 |
| 32MB | NONE | NONE | (1) 4M x 36 | (1) 4M x 36 |
| 32MB | NONE | NONE | NONE | (1) 8M x 36 |
| 64MB | NONE | NONE | NONE | (1) 16M x 36 |
| 64MB | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 64MB | (1) 4M x 36 | (1) 4M x 36 | NONE | (1) 8M x 36 |
| 64MB | NONE | (1) 8M x 36 | NONE | (1) 8M x 36 |
| 128MB | NONE | NONE | (1) 16M x 36 | (1) 16M x 36 |
| 128MB | NONE | NONE | NONE | (1) 32M x 36 |

| CACHE CONFIGURATION | | |
|---|---|---|
| Size | Bank 0 | TAG |
| 128KB | (4) 32K x 8 | (1) 8K x 8 |
| 256KB | (4) 64K x 8 | (1) 16K x 8 |

| CACHE JUMPER CONFIGURATION | | | |
|---|---|---|---|
| Size | RNC1 | RNC2 | RNC3 |
| 128KB | Installed | Not installed | Not installed |
| 256KB | Not installed | Installed | Not installed |

| CPU TYPE CONFIGURATION | | | | | |
|---|---|---|---|---|---|
| Type | RNA1 | RNA2 | RNA3 | RNA4 | RNA5 |
| 80486SX | Not installed | Not installed | Installed | Not installed | Not installed |
| SL80486SX | Not installed | Not installed | Installed | Not installed | Not installed |
| 80487SX | Not installed | Not installed | Not installed | Not installed | Installed |
| CX486DX | Installed | Not installed | Not installed | Not installed | Not installed |
| 80486DX | Installed | Not installed | Not installed | Not installed | Not installed |
| AM486DXL | Installed | Not installed | Not installed | Not installed | Not installed |
| SL80486DX | Installed | Not installed | Not installed | Not installed | Not installed |
| ODP486SX | Not installed | Not installed | Not installed | Not installed | Installed |
| CX486DX2 | Not installed | Installed | Not installed | Not installed | Not installed |
| 80486DX2 | Installed | Not installed | Not installed | Not installed | Not installed |
| SL80486DX2 | Installed | Not installed | Not installed | Not installed | Not installed |
| P24C | Installed | Not installed | Not installed | Not installed | Not installed |
| P24D | Not installed | Installed | Not installed | Not installed | Not installed |
| P24CT | Not installed | Not installed | Not installed | Installed | Not installed |
| Pentium Overdrive | Not installed | Not installed | Not installed | Installed | Not installed |

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| CPU TYPE CONFIGURATION (CON'T) | | | | |
|---|---|---|---|---|
| Type | RNB1 | RNB2 | RNB3 | RNB4 |
| 80486SX | Installed | Not installed | Not installed | Not installed |
| SL80486SX | Not installed | Installed | Not installed | Not installed |
| 80487SX | Installed | Not installed | Not installed | Not installed |
| CX486DX | Not installed | Not installed | Installed | Not installed |
| 80486DX | Installed | Not installed | Not installed | Not installed |
| AM486DXL | Not installed | Not installed | Not installed | Installed |
| SL80486DX | Not installed | Installed | Not installed | Not installed |
| ODP486SX | Installed | Not installed | Not installed | Not installed |
| CX486DX2 | Not installed | Not installed | Installed | Not installed |
| 80486DX2 | Installed | Not installed | Not installed | Not installed |
| SL80486DX2 | Not installed | Installed | Not installed | Not installed |
| P24C | Not installed | Installed | Not installed | Not installed |
| P24D | Not installed | Installed | Not installed | Not installed |
| P24CT | Not installed | Installed | Not installed | Not installed |
| Pentium Overdrive | Not installed | Installed | Not installed | Not installed |

| CPU TYPE CONFIGURATION (CON'T) | | | |
|---|---|---|---|
| Type | JP6 | JP7 | JP11 |
| 80486SX | Open | Open | pins 1 & 2  closed |
| SL80486SX | Open | Open | pins 1 & 2  closed |
| 80487SX | Open | Open | pins 1 & 2  closed |
| CX486DX | Open | Open | pins 1 & 2  closed |
| 80486DX | Open | Open | pins 1 & 2  closed |
| AM486DXL 2x | Open | Closed | pins 1 & 2 closed |
| AM486DXL 3x | Open | Open | pins 1 & 2 closed |
| SL80486Dx | Open | Open | pins 1 & 2  closed |
| ODP486SX | Open | Open | pins 1 & 2  closed |
| CX486DX2 2x | Closed | Open | pins 1 & 2 closed |
| CX486DX2 | Closed | Open | pins 1 & 2 closed |
| CX486DX2 3x | Open | Open | pins 1 & 2 closed |
| CX486DX2 (3v) | Open | Open | pins 2 & 3 closed |
| CX486DX2 (3.3v) | Open | Open | pins 2 & 3 closed |
| 80486DX2 | Closed | Open | pins 1 & 2 closed |
| SL80486DX2 | Open | Open | pins 1 & 2  closed |
| CX486DX4 | Open | Open | pins 1 & 2 closed |
| P24C | Open | Open | pins 1 & 2 closed |
| AM486DXL (3.3v) | Open | Closed | pins 1 & 2 closed |
| P24C 2x | Closed | Open | pins 1 & 2 closed |
| P24C 3x | Open | Open | pins 1 & 2 closed |
| P24D | Open | Open | pins 1 & 2  closed |
| P24CT | Open | Open | pins 1 & 2  closed |
| Pentium Overdrive | Open | Open | pins 1 & 2  closed |

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| CPU SPEED CONFIGURATION | | | | |
|---|---|---|---|---|
| Speed | RND1 | RND2 | RND3 | RND4 |
| 25MHz | Installed | Not installed | Not installed | Not installed |
| 33MHz | Not installed | Installed | Not installed | Not installed |
| 40MHz | Not installed | Not installed | Installed | Not installed |
| 50iMHz | Installed | Not installed | Not installed | Not installed |
| 50MHz | Not installed | Not installed | Not installed | Installed |
| 66iMHz | Not installed | Installed | Not installed | Not installed |
| 75iMHz | Installed | Not installed | Not installed | Not installed |
| 100iMHz | Not installed | Installed | Not installed | Not installed |

| CPU VOLTAGE CONFIGURATION | | |
|---|---|---|
| Voltage | JP9 | JP10 |
| 3.145v - 3.6v | Open | Closed |
| 4.0v | Closed | Open |

| DRQ/DACK CONFIGURATION | | |
|---|---|---|
| DRQ/DACK | JP4 | JP5 |
| DRQ1/DACK1 | pins 1 & 2 closed | pins 1 & 4 closed |
| DRQ3/DACK3 | pins 3 & 4 closed | pins 2 & 5 closed |