**AST RESEARCH, INC.**

# PREMIUM 4/50D III (501293-001)

| | |
|---|---|
| **Device Type** | Mainboard |
| **Processor** | 80486DX/80486DX2 |
| **Processor Speed** | 50MHz |
| **Chip Set** | Unidentified |
| **Video Chip Set** | Cirrus Logic |
| **Maximum Onboard Memory** | 64MB |
| **Maximum Video Memory** | Unidentified |
| **BIOS** | Unidentified |
| **Dimensions** | Unidentified |
| **I/O Options** | 16-bit ISA slots (4), IDE interface, parallel port, PS/2 mouse port, PS/2 mouse interface, serial ports (2), VGA port, cache slot, AT power connectors (2) |

Note: Exact location is unidentified.

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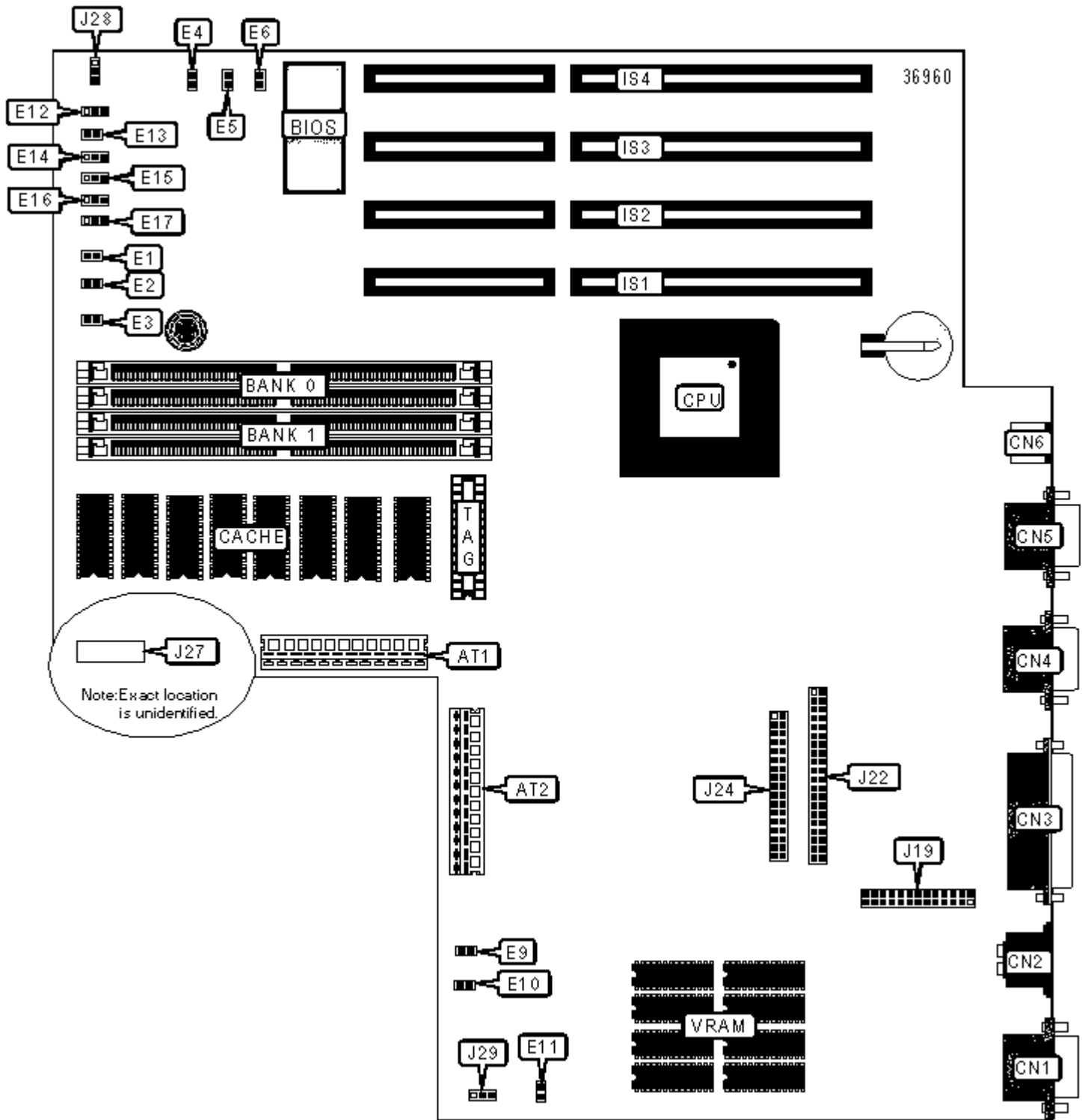
| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| AT1 power connector 1 | AT1 | PS/2 mouse port | CN6 |
| AT1 power connector 2 | AT2 | 16-bit ISA slots | IS1 - IS4 |
| VGA port | CN1 | IDE interface 1 | J22 |
| AT keyboard port | CN2 | Floppy drive interface | J24 |

| Parallel port | CN3 | Speaker | J27 |
|---|---|---|---|
| Serial port | CN4 | Fan power | J28 |
| Serial port | CN5 | Front console LEDs | J29 |

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| **Function** | **Label** | **Position** |
| » Color display mode enabled | E4 | Closed |
| Monochrome display mode enabled | E4 | Open |
| » Integrated video enabled | E5 | Closed |
| Integrated video disabled | E5 | Open |
| » Password enabled | E6 | Closed |
| Password disabled | E6 | Open |
| » Parallel port IRQ 7 | E12 | Pins 1 & 2 closed |
| Parallel port IRQ 5 | E12 | Pins 2 & 3 closed |

| SIMM CONFIGURATION | | |
|---|---|---|
| **Size** | **Bank 0** | **Bank 1** |
| 8MB | (2) 1M x 36 | None |
| 16MB | (2) 2M x 36 | None |
| 16MB | (2) 1M x 36 | (2) 1M x 36 |
| 24MB | (2) 2M x 36 | (2) 1M x 36 |
| 32MB | (2) 4M x 36 | None |
| 32MB | (2) 2M x 36 | (2) 2M x 36 |
| 40MB | (2) 4M x 36 | (2) 1M x 36 |
| 48MB | (2) 4M x 36 | (2) 2M x 36 |
| 64MB | (2) 4M x 36 | (2) 4M x 36 |

| CACHE JUMPER CONFIGURATION | | | |
|---|---|---|---|
| **Size** | **E1** | **E2** | **E3** |

| » | 64KB or None | Open | Open | Open |
|---|---|---|---|---|
|  | 256KB | Closed | Closed | Closed |

| CPU SPEED SELECTION | | |
|---|---|---|
| **Speed** | **E9** | **E10** |
| 25MHz | Closed | Closed |
| 33MHz | Open | Closed |

| CPU TYPE SELECTION | | | | | | |
|---|---|---|---|---|---|---|
| **Type** | **E11** | **E13** | **E14** | **E15** | **E16** | **E17** |
| 486SX (PQFP) | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 | 1 & 2 |
| 486SX (LIF) | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 | 1 & 2 |
| 486DX | Closed | Closed | 2 & 3 | 1 & 2 | 2 & 3 | 1 & 2 |
| 486DX2 | Closed | Closed | 2 & 3 | 1 & 2 | 2 & 3 | 1 & 2 |
| ODPR | Closed | Closed | 2 & 3 | 1 & 2 | 2 & 3 | 1 & 2 |
| ODP | Closed | Closed | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 |
| 487SX | Closed | Closed | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 |
| Pentium OD | Closed | Closed | 2 & 3 | 2 & 3 | 2 & 3 | Open |

Note: Pins designated should be in the closed position.