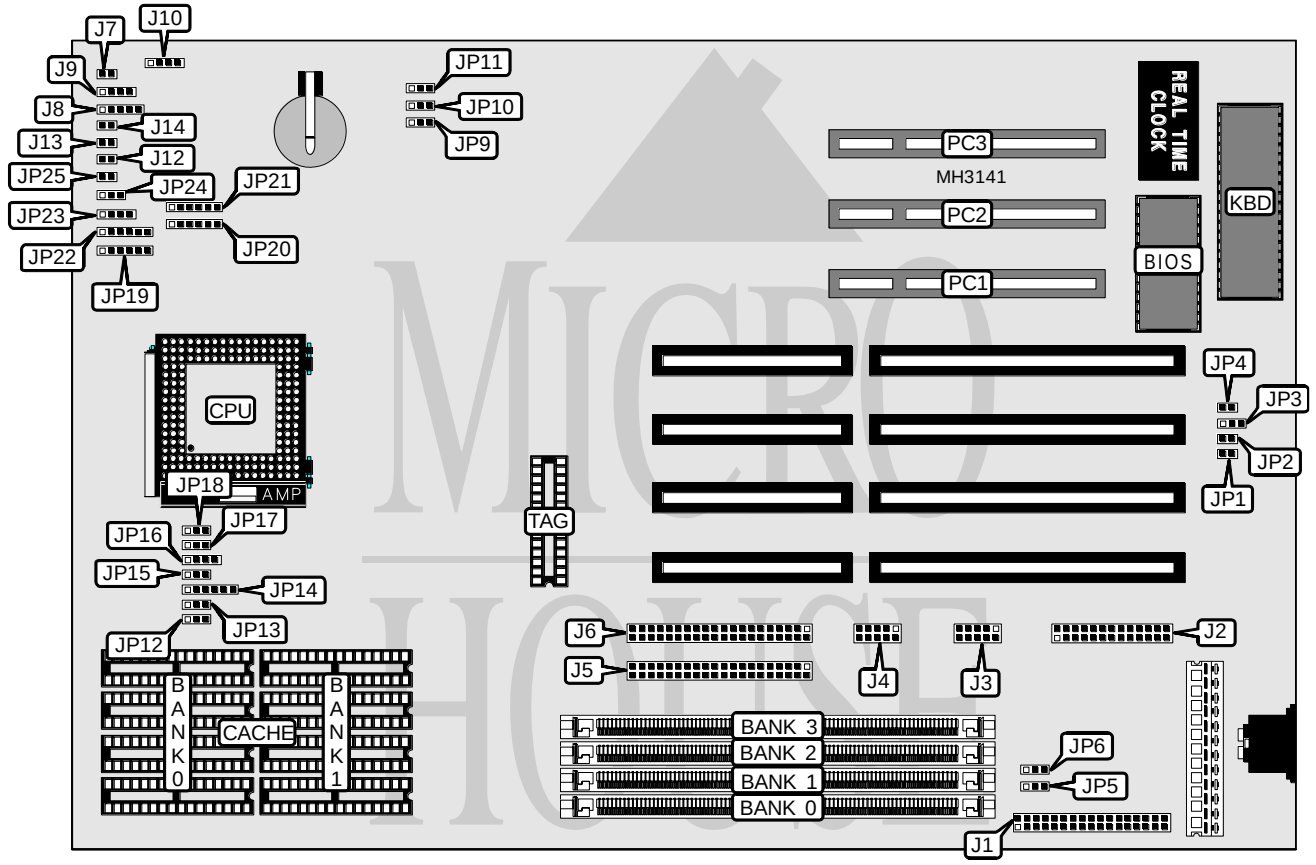
# EFA CORPORATION
# 4 8 6 U - P I O

| | |
|---|---|
| **Processor** | CX486SX/UMC486SX/80486SX/SL80486SX/CX486SX2/UMC486SX2/ 80486SX2/SL80486SX2/CX486DX/UMC486DX/AM486DX/(SL)AM486DX/ 80486DX/SL80486DX/CX486DX2/UMC486DX2/AM486DX2/(SL)AM486DX2/ 80486DX2/SL80486DX2/P24D/AM486DX4/(SL)AM486DX4/80486DX4/ Pentium Overdrive/CXM1 |
| **Processor Speed** | 25/33/40/50(internal)/66(internal)/75(internal)/80(internal)/100(internal)/ 120(internal)MHz |
| **Chip Set** | UMC |
| **Max. Onboard DRAM** | 128MB |
| **Cache** | 128/256/512/1024KB |
| **BIOS** | Award |
| **Dimensions** | 280mm x 220mm |
| **I/O Options** | 32-bit PCI slots (3), floppy drive interface, IDE interfaces (2), parallel port, serial ports (2) |
| **NPU Options** | None |

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| CONNECTIONS | | | |
|---|---|---|---|
| Purpose | Location | Purpose | Location |
| Floppy drive interface | J1 | Power LED & keylock | J8 |
| Parallel port | J2 | Speaker | J9 |
| Serial port 1 | J3 | External battery | J10 |
| Serial port 2 | J4 | Reset switch | J12 |
| IDE interface 2 | J5 | Turbo switch | J13 |
| IDE interface 1 | J6 | Turbo LED | J14 |
| IDE interface LED | J7 | 32-bit PCI slots | PC1 - PC3 |

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| Function | Jumper | Position |
| í CMOS memory normal operation | JP1 | Open |
| CMOS memory clear | JP1 | Closed |
| í Monitor type select color | JP2 | Closed |
| Monitor type select monochrome | JP2 | Open |
| í Flash BIOS voltage select 5v | JP3 | pins 1 & 2 closed |
| Flash BIOS voltage select 12v | JP3 | pins 2 & 3 closed |
| PS/2 mouse IRQ12 enabled | JP4 | Closed |
| PS/2 mouse IRQ12 disabled | JP4 | Open |

| DRAM CONFIGURATION | | | | |
|---|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 1MB | (1) 256K x 36 | NONE | NONE | NONE |
| 2MB | (1) 512K x 36 | NONE | NONE | NONE |
| 2MB | (1) 256K x 36 | (1) 256K x 36 | NONE | NONE |
| 3MB | (1) 512K x 36 | (1) 256K x 36 | NONE | NONE |
| 3MB | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 3MB | (1) 256K x 36 | (1) 512K x 36 | NONE | NONE |
| 4MB | (1) 1M x 36 | NONE | NONE | NONE |
| 4MB | (1) 512K x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 4MB | (1) 512K x 36 | (1) 512K x 36 | NONE | NONE |
| 4MB | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 5MB | (1) 1M x 36 | (1) 256K x 36 | NONE | NONE |
| 5MB | (1) 512K x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 5MB | (1) 256K x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |
| 5MB | (1) 256K x 36 | (1) 1M x 36 | NONE | NONE |
| 6MB | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 6MB | (1) 1M x 36 | (1) 512K x 36 | NONE | NONE |
| 6MB | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |
| 6MB | (1) 512K x 36 | (1) 1M x 36 | NONE | NONE |
| 7MB | (1) 1M x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 7MB | (1) 256K x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 8MB | (1) 2M x 36 | NONE | NONE | NONE |
| 8MB | (1) 1M x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |

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| DRAM CONFIGURATION (CON'T) | | | | |
|---|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 8MB | (1) 1M x 36 | (1) 1M x 36 | NONE | NONE |
| 8MB | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 9MB | (1) 2M x 36 | (1) 256K x 36 | NONE | NONE |
| 9MB | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 9MB | (1) 256K x 36 | (1) 2M x 36 | NONE | NONE |
| 10MB | (1) 2M x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 10MB | (1) 2M x 36 | (1) 512K x 36 | NONE | NONE |
| 10MB | (1) 1M x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 10MB | (1) 512K x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 10MB | (1) 512K x 36 | (1) 2M x 36 | NONE | NONE |
| 11MB | (1) 2M x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 12MB | (1) 2M x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |
| 12MB | (1) 2M x 36 | (1) 1M x 36 | NONE | NONE |
| 12MB | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 12MB | (1) 1M x 36 | (1) 2M x 36 | NONE | NONE |
| 13MB | (1) 256K x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 14MB | (1) 2M x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 14MB | (1) 512K x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 16MB | (1) 4M x 36 | NONE | NONE | NONE |
| 16MB | (1) 2M x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 16MB | (1) 2M x 36 | (1) 2M x 36 | NONE | NONE |
| 16MB | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 17MB | (1) 4M x 36 | (1) 256K x 36 | NONE | NONE |
| 17MB | (1) 256K x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 17MB | (1) 256K x 36 | (1) 4M x 36 | NONE | NONE |
| 18MB | (1) 4M x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 18MB | (1) 4M x 36 | (1) 512K x 36 | NONE | NONE |
| 18MB | (1) 512K x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 18MB | (1) 512K x 36 | (1) 4M x 36 | NONE | NONE |
| 19MB | (1) 4M x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 20MB | (1) 4M x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |
| 20MB | (1) 4M x 36 | (1) 1M x 36 | NONE | NONE |
| 20MB | (1) 2M x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 20MB | (1) 1M x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 20MB | (1) 1M x 36 | (1) 4M x 36 | NONE | NONE |
| 22MB | (1) 4M x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 24MB | (1) 4M x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 24MB | (1) 4M x 36 | (1) 2M x 36 | NONE | NONE |
| 24MB | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 24MB | (1) 2M x 36 | (1) 4M x 36 | NONE | NONE |
| 25MB | (1) 256K x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 26MB | (1) 512K x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 28MB | (1) 4M x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |

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| DRAM CONFIGURATION (CON'T) | | | | |
|---|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 28MB | (1) 1M x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 32MB | (1) 8M x 36 | NONE | NONE | NONE |
| 32MB | (1) 4M x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 32MB | (1) 4M x 36 | (1) 4M x 36 | NONE | NONE |
| 32MB | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 33MB | (1) 8M x 36 | (1) 256K x 36 | NONE | NONE |
| 33MB | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 33MB | (1) 256K x 36 | (1) 8M x 36 | NONE | NONE |
| 34MB | (1) 8M x 36 | (1) 256K x 36 | (1) 256K x 36 | NONE |
| 34MB | (1) 8M x 36 | (1) 512K x 36 | NONE | NONE |
| 34MB | (1) 512K x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 34MB | (1) 512K x 36 | (1) 8M x 36 | NONE | NONE |
| 35MB | (1) 8M x 36 | (1) 256K x 36 | (1) 256K x 36 | (1) 256K x 36 |
| 36MB | (1) 8M x 36 | (1) 512K x 36 | (1) 512K x 36 | NONE |
| 36MB | (1) 8M x 36 | (1) 1M x 36 | NONE | NONE |
| 36MB | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 36MB | (1) 1M x 36 | (1) 8M x 36 | NONE | NONE |
| 38MB | (1) 8M x 36 | (1) 512K x 36 | (1) 512K x 36 | (1) 512K x 36 |
| 40MB | (1) 8M x 36 | (1) 1M x 36 | (1) 1M x 36 | NONE |
| 40MB | (1) 8M x 36 | (1) 2M x 36 | NONE | NONE |
| 40MB | (1) 4M x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 40MB | (1) 2M x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 40MB | (1) 2M x 36 | (1) 8M x 36 | NONE | NONE |
| 44MB | (1) 8M x 36 | (1) 1M x 36 | (1) 1M x 36 | (1) 1M x 36 |
| 48MB | (1) 8M x 36 | (1) 2M x 36 | (1) 2M x 36 | NONE |
| 48MB | (1) 8M x 36 | (1) 4M x 36 | NONE | NONE |
| 48MB | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 48MB | (1) 4M x 36 | (1) 8M x 36 | NONE | NONE |
| 49MB | (1) 256K x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 50MB | (1) 512K x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 52MB | (1) 1M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 56MB | (1) 8M x 36 | (1) 2M x 36 | (1) 2M x 36 | (1) 2M x 36 |
| 56MB | (1) 2M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 64MB | (1) 8M x 36 | (1) 4M x 36 | (1) 4M x 36 | NONE |
| 64MB | (1) 8M x 36 | (1) 8M x 36 | NONE | NONE |
| 64MB | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 65MB | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |
| 66MB | (1) 512K x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |
| 68MB | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |
| 72MB | (1) 2M x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |
| 80MB | (1) 8M x 36 | (1) 4M x 36 | (1) 4M x 36 | (1) 4M x 36 |
| 80MB | (1) 4M x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |
| 96MB | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 | NONE |

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| DRAM CONFIGURATION (CON'T) | | | | |
|---|---|---|---|---|
| Size | Bank 0 | Bank 1 | Bank 2 | Bank 3 |
| 97MB | (1) 256K x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 98MB | (1) 512K x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 100MB | (1) 1M x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 104MB | (1) 2M x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 112MB | (1) 4M x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |
| 128MB | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 | (1) 8M x 36 |

| CACHE CONFIGURATION | | | |
|---|---|---|---|
| Size | Bank 0 | Bank 1 | TAG |
| 128KB | (4) 32K x 8 | NONE | (1) 32K x 8 |
| 256KB (A) | (4) 32K x 8 | (4) 32K x 8 | (1) 32K x 8 |
| 256KB (B) | (4) 64K x 8 | NONE | (1) 32K x 8 |
| 512KB (A) | (4) 64K x 8 | (4) 64K x 8 | (1) 32K x 8 |
| 512KB (B) | (4) 128K x 8 | NONE | (1) 32K x 8 |
| 1MB | (4) 128K x 8 | (4) 128K x 8 | (1) 64K or (1) 128K x 8 |

| CACHE JUMPER CONFIGURATION | | | |
|---|---|---|---|
| Size | JP12 | JP13 | JP14 |
| 128KB | pins 1 & 2 closed | pins 1 & 2 closed | pins 1 & 2 closed |
| 256KB (A) | pins 1 & 2 closed | pins 2 & 3 closed | pins 2 & 3 closed |
| 256KB (B) | pins 1 & 2 closed | pins 2 & 3 closed | pins 1 & 2 closed |
| 512KB (A) | pins 2 & 3 closed | pins 2 & 3 closed | pins 4 & 5 closed |
| 512KB (B) | pins 2 & 3 closed | pins 2 & 3 closed | pins 1 & 2 closed |
| 1MB | pins 2 & 3 closed | pins 2 & 3 closed | pins 5 & 6 closed |

| CPU TYPE CONFIGURATION | | | | | |
|---|---|---|---|---|---|
| Type | JP15 | JP16 | JP17 | JP18 | JP19 |
| CX486SX | 1 & 2 | Open | 2 & 3 | 1 & 2 | 2 & 3, 4 & 5 |
| UMC486SX | Open | Open | 1 & 2 | 2 & 3 | Open |
| 80486SX | Open | Open | 1 & 2 | 1 & 2 | Open |
| SL80486SX | Open | Open | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| CX486SX2 | 1 & 2 | Open | 2 & 3 | 1 & 2 | 2 & 3, 4 & 5 |
| UMC486SX2 | Open | Open | 1 & 2 | 2 & 3 | Open |
| 80486SX2 | Open | Open | 1 & 2 | 1 & 2 | Open |
| SL80486SX2 | Open | Open | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| CX486DX | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 | 2 & 3, 4 & 5 |
| UMC486DX | Open | 1 & 2 | 1 & 2 | 2 & 3 | Open |
| AM486DX | Open | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 |
| (SL)AM486DX | 2 & 3 | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| 80486DX | Open | 1 & 2 | 1 & 2 | 1 & 2 | Open |
| SL80486DX | Open | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| CX486DX2 | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 | 2 & 3, 4 & 5 |
| UMC486DX2 | Open | 1 & 2 | 1 & 2 | 2 & 3 | Open |

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| CPU TYPE CONFIGURATION (CON'T) | | | | | |
|---|---|---|---|---|---|
| Type | JP15 | JP16 | JP17 | JP18 | JP19 |
| AM486DX2 | Open | 1 & 2 | 1 & 2 | 2 & 3 | 1 & 2 |
| (SL)AM486DX2 | 2 & 3 | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| 80486DX2 | Open | 1 & 2 | 1 & 2 | 1 & 2 | Open |
| SL80486DX2 | Open | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| P24D | 2 & 3 | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| AM486DX4 | Open | 1 & 2 | 1 & 2 | 2 & 3 | Open |
| (SL)AM486DX4 | 2 & 3 | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| 80486DX4 | Open | 1 & 2 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| P24T | 2 & 3 | 2 & 3 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| CXM1 | 2 & 3 | 1 & 2, 3 & 4 | 1 & 2 | 1 & 2 | 3 & 4, 5 & 6 |
| Note: Pins designated should be in the closed position. | | | | | |

| CPU TYPE CONFIGURATION (CON'T) | | | | |
|---|---|---|---|---|
| Type | JP22 | JP23 | JP24 | JP25 |
| CX486SX | 2 & 3, 4 & 5 | 2 & 3 | 1 & 2 | Open |
| UMC486SX | Open | 2 & 3 | 2 & 3 | Open |
| 80486SX | Open | 2 & 3 | 2 & 3 | Open |
| SL80486SX | 5 & 6 | 2 & 3 | 1 & 2 | Open |
| CX486SX2 | 2 & 3, 4 & 5 | 2 & 3 | 1 & 2 | Open |
| UMC486SX2 | Open | 2 & 3 | 2 & 3 | Open |
| 80486SX2 | Open | 2 & 3 | 2 & 3 | Open |
| SL80486SX2 | 5 & 6 | 2 & 3 | 1 & 2 | Open |
| CX486DX | 2 & 3, 4 & 5 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| UMC486DX | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| AM486DX | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| (SL)AM486DX | 1 & 2, 3 & 4, 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| 80486DX | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| SL80486DX | 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| CX486DX2 | 2 & 3, 4 & 5 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| UMC486DX2 | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| AM486DX2 | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| (SL)AM486DX2 | 1 & 2, 3 & 4, 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| 80486DX2 | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| SL80486DX2 | 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| P24D | 3 & 4, 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| AM486DX4 | Open | 1 & 2, 3 & 4 | 2 & 3 | Open |
| (SL)AM486DX4 | 3 & 4, 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| 80486DX4 | 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| P24T | 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| CXM1 | 3 & 4, 5 & 6 | 1 & 2, 3 & 4 | 1 & 2 | Open |
| Note: Pins designated should be in the closed position. | | | | |

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| CPU SPEED CONFIGURATION | | | |
|---|---|---|---|
| Speed | JP9 | JP10 | JP11 |
| 25MHz | pins 2 & 3 closed | pins 1 & 2 closed | pins 2 & 3 closed |
| 33MHz | pins 2 & 3 closed | pins 2 & 3 closed | pins 1 & 2 closed |
| 40MHz | pins 1 & 2 closed | pins 1 & 2 closed | pins 2 & 3 closed |
| 50iMHz | pins 2 & 3 closed | pins 1 & 2 closed | pins 2 & 3 closed |
| 66iMHz | pins 2 & 3 closed | pins 2 & 3 closed | pins 1 & 2 closed |
| 75iMHz | pins 2 & 3 closed | pins 1 & 2 closed | pins 2 & 3 closed |
| 80iMHz | pins 1 & 2 closed | pins 1 & 2 closed | pins 2 & 3 closed |
| 100iMHz | pins 2 & 3 closed | pins 2 & 3 closed | pins 1 & 2 closed |
| 120iMHz | pins 1 & 2 closed | pins 1 & 2 closed | pins 2 & 3 closed |

| CPU VOLTAGE CONFIGURATION | | |
|---|---|---|
| Voltage | JP20 | JP21 |
| 3.3v | pins 2 & 3, 4 & 5 closed | pins 1 & 2 closed |
| 3.45v | pins 2 & 3, 4 & 5 closed | pins 2 & 3 closed |
| 3.8v | pins 2 & 3, 4 & 5 closed | pins 4 & 5 closed |
| 4v | pins 2 & 3, 4 & 5 closed | pins 5 & 6 closed |
| 5v | pins 1 & 2 , 5 & 6 closed | pins 2 & 3 closed |

| DMA CONFIGURATION | | |
|---|---|---|
| DMA | JP5 | JP6 |
| í DMA 3 | pins 2 & 3 closed | pins 2 & 3 closed |
| DMA 5 | pins 1 & 2 closed | pins 1 & 2 closed |