# EFA CORPORATION
# P 5 T X - A T X

| | |
|---|---|
| **Device Type** | Mainboard |
| **Processor** | CX 6X86/CX 6X86L/CX 686MX/AM K5/AM K6/Pentium/Pentium MMX |
| **Processor Speed** | 90/100/120/133/150/166/200/233MHz |
| **Chip Set** | Intel |
| **Video Chip Set** | None |
| **Maximum Onboard Memory** | 256MB (EDO & SDRAM supported) |
| **Maximum Video Memory** | None |
| **Cache** | 256/512KB |
| **BIOS** | Award |
| **Dimensions** | 305mm x 220mm |
| **I/O Options** | 32-bit PCI slots (4), floppy drive interface, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse interface, serial ports (2), IR connector, USB connector, ATX power connector |
| **NPU Options** | None |
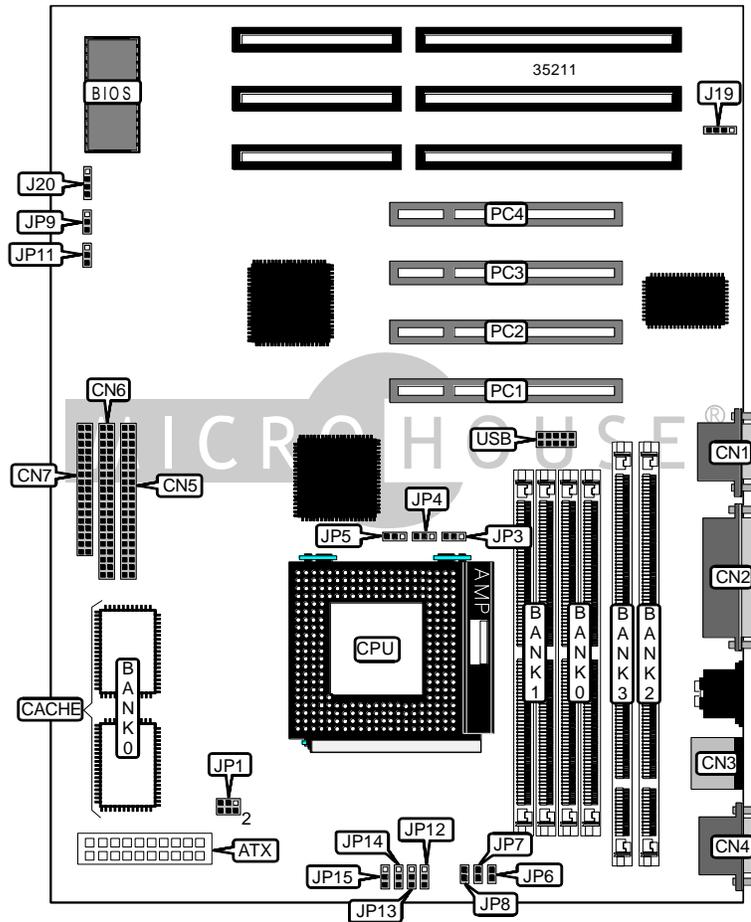
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| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| ATX power connector | ATX | Power LED & keylock | J15/pins 2/4/6/8/10 |
| Serial port 2 | CN1 | Turbo LED | J15/pins 11 & 12 |
| Parallel port | CN2 | Green PC connector | J15/pins 13 & 14 |
| PS/2 mouse port | CN3 | IDE interface LED | J15/pins 15 & 16 |
| Serial port 1 | CN4 | Reset switch | J15/pins 17 & 18 |
| IDE interface 2 | CN5 | Green PC LED | J15/pins 19 & 20 |
| IDE interface 1 | CN6 | IR connector | J19 |
| Floppy drive interface | CN7 | External battery | J20 |
| Soft off power supply | J5 | 32-bit PCI slots | PC1 – PC4 |
| Speaker | J15/pins1/3/5/7 | USB connector | USB |
| Note:  The location of J9 & J15 is unidentified. | | | |

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| **Function** | **Label** | **Position** |
| í   Factory configured - do not alter | JP3 | Unidentified |
| í   Factory configured - do not alter | JP8 | Unidentified |
| í   CMOS memory normal operation | JP9 | Pins 1 & 2 closed |
|     CMOS memory clear | JP9 | Pins 2 & 3 closed |
| í   Factory configured - do not alter | JP11 | Unidentified |

| 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) 8M x 36 | None |
| 64MB | (2) 4M x 36 | (2) 4M x 36 |
| 72MB | (2) 8M x 36 | (2) 1M x 36 |
| 80MB | (2) 8M x 36 | (2) 2M x 36 |
| 96MB | (2) 8M x 36 | (2) 4M x 36 |
| 128MB | (2) 8M x 36 | (2) 8M x 36 |
| 128MB | (2) 16M x 36 | None |
| 136MB | (2) 16M x 36 | (2) 1M x 36 |
| 144MB | (2) 16M x 36 | (2) 2M x 36 |
| 160MB | (2) 16M x 36 | (2) 4M x 36 |
| 192MB | (2) 16M x 36 | (2) 8M x 36 |

| 256MB | (2) 16M x 36 | (2) 16M x 36 |
|---|---|---|
| Note: Board accepts EDO memory. | | |

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| DIMM CONFIGURATION | | |
|---|---|---|
| **Size** | **Bank 2** | **Bank 3** |
| 8MB | (1) 1M x 64 | None |
| 16MB | (1) 2M x 64 | None |
| 16MB | (1) 1M x 64 | (1) 1M x 64 |
| 24MB | (1) 2M x 64 | (1) 1M x 64 |
| 32MB | (1) 4M x 64 | None |
| 32MB | (1) 2M x 64 | (1) 2M x 64 |
| 40MB | (1) 4M x 64 | (1) 1M x 64 |
| 48MB | (1) 4M x 64 | (1) 2M x 64 |
| 64MB | (1) 8M x 64 | None |
| 64MB | (1) 4M x 64 | (1) 4M x 64 |
| 72MB | (1) 8M x 64 | (1) 1M x 64 |
| 80MB | (1) 8M x 64 | (1) 2M x 64 |
| 96MB | (1) 8M x 64 | (1) 4M x 64 |
| 128MB | (1) 16M x 64 | None |
| 128MB | (1) 8M x 64 | (1) 8M x 64 |
| 136MB | (1) 16M x 64 | (1) 1M x 64 |
| 144MB | (1) 16M x 64 | (1) 2M x 64 |
| 160MB | (1) 16M x 64 | (1) 4M x 64 |
| 192MB | (1) 16M x 64 | (1) 8M x 64 |
| 256MB | (1) 16M x 64 | (1) 16M x 64 |
| Note:    Board accepts SDRAM memory. | | |

| CACHE CONFIGURATION | |
|---|---|
| **Size** | **Bank 0** |
| 256KB | (2) 32K x 32 |
| 512KB | (2) 64K x 32 |

| CPU SPEED SELECTION (CX 6X86) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 133MHz | 55MHz | 2x | 2 & 3 | 1 & 2 | Closed | Closed |
| 150MHz | 60MHz | 2x | 2 & 3 | 1 & 2 | Closed | Open |
| 166MHz | 66MHz | 2x | 2 & 3 | 1 & 2 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

| CPU SPEED SELECTION (CX 6X86L) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 166MHz | 66MHz | 2x | 2 & 3 | 1 & 2 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

# EFA CORPORATION
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| CPU SPEED SELECTION (CX 6X86MX) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 166MHz | 60MHz | 2.5x | 2 & 3 | 2 & 3 | Closed | Open |
| 166MHz | 66MHz | 2x | 2 & 3 | 1 & 2 | Open | Open |
| 200MHz | 66MHz | 2.5x | 2 & 3 | 2 & 3 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

| CPU SPEED SELECTION (AM K5) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 90MHz | 60MHz | 1.5x | 1 & 2 | 1 & 2 | Closed | Open |
| 100MHz | 66MHz | 1.5x | 1 & 2 | 1 & 2 | Open | Open |
| 120MHz | 60MHz | 1.5x | 1 & 2 | 1 & 2 | Closed | Open |
| 133MHz | 66MHz | 1.5x | 1 & 2 | 1 & 2 | Open | Open |
| 150MHz | 60MHz | 2.5x | 2 & 3 | 2 & 3 | Closed | Open |
| 166MHz | 66MHz | 2.5x | 2 & 3 | 2 & 3 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

| CPU SPEED SELECTION (AM K6) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 166MHz | 66MHz | 2.5x | 2 & 3 | 2 & 3 | Open | Open |
| 200MHz | 66MHz | 3x | 1 & 2 | 2 & 3 | Open | Open |
| 233MHz | 66MHz | 3.5x | 1 & 2 | 1 & 2 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

| CPU SPEED SELECTION (INTEL) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 90MHz | 60MHz | 1.5x | 1 & 2 | 1 & 2 | Closed | Open |
| 100MHz | 66MHz | 1.5x | 1 & 2 | 1 & 2 | Open | Open |
| 120MHz | 60MHz | 2x | 2 & 3 | 1 & 2 | Closed | Open |
| 133MHz | 66MHz | 2x | 2 & 3 | 1 & 2 | Open | Open |
| 150MHz | 60MHz | 2.5x | 2 & 3 | 2 & 3 | Closed | Open |
| 166MHz | 66MHz | 2.5x | 2 & 3 | 2 & 3 | Open | Open |
| 200MHz | 66MHz | 3x | 1 & 2 | 2 & 3 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

| CPU SPEED SELECTION (INTEL MMX) | | | | | | |
|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP4** | **JP5** | **JP6** | **JP7** |
| 166MHz | 66MHz | 2.5x | 2 & 3 | 2 & 3 | Open | Open |
| 200MHz | 66MHz | 3x | 1 & 2 | 2 & 3 | Open | Open |
| 233MHz | 66MHz | 3.5x | 1 & 2 | 1 & 2 | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | | |

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| CPU VOLTAGE SELECTION | | | | | |
|---|---|---|---|---|---|
| **Voltage** | **JP1** | **JP12** | **JP13** | **JP14** | **JP15** |
| 2.0v | * | 1 & 2 | 1 & 2 | 1 & 2 | 1 & 2 |
| 2.5v | * | 2 & 3 | 1 & 2 | 2 & 3 | 1 & 2 |
| 2.8v | 3 & 5, 4 & 6 | 1 & 2 | 1 & 2 | 1 & 2 | 2 & 3 |
| 2.9v | 3 & 5, 4 & 6 | 2 & 3 | 1 & 2 | 1 & 2 | 2 & 3 |
| 3.2v | 3 & 5, 4 & 6 | 1 & 2 | 1 & 2 | 2 & 3 | 2 & 3 |
| 3.3v | 1 & 3, 2 & 4 | 2 & 3 | 1 & 2 | 2 & 3 | 2 & 3 |
| 3.4v | * | 1 & 2 | 2 & 3 | 2 & 3 | 2 & 3 |
| 3.52v | 1 & 3, 2 & 4 | 2 & 3 | 2 & 3 | 2 & 3 | 2 & 3 |
| Note:  Pins designated should be in the closed position.  * = Reserved for future CPUs. | | | | | |