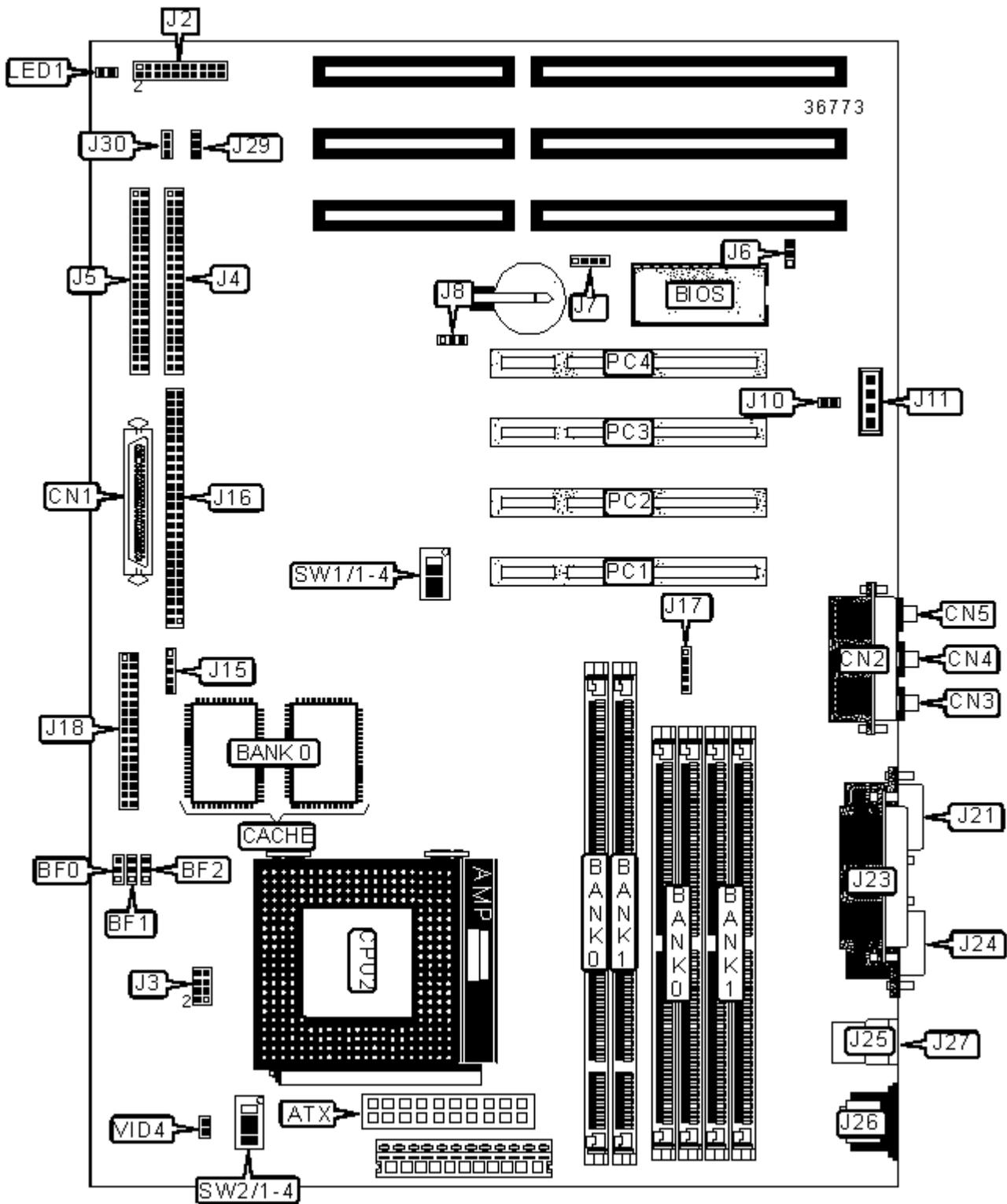


ENPC TECHNOLOGY CORPORATION

EP-PT22 (REV. 1.0)

| | |
|--------------------------------|--|
| Device Type | Mainboard |
| Processor | CX 686MX/CX M2/AM K5/AM K6/Pentium/Pentium MMX |
| Processor Speed | 90/100/120/133/150/166/180/200/233/266/300/333MHz |
| Chip Set | Intel 430TX |
| Maximum Onboard Memory | 256MB (EDO, & SDRAM supported) |
| Cache | 512KB |
| BIOS | AMI/Award |
| Dimensions | 305mm x 210mm |
| I/O Options (backplane) | 32-bit PCI slots (4), floppy drive interface, game port, IDE interfaces (2), SCSI interface, SCSI port, parallel port, PS/2 mouse port, serial ports (2), IR connectors (2), USB ports (2), ATX power connector, line in, line out, microphone in, audio in - CD-ROM, external battery connector |



CONNECTIONS

| Purpose | Location | Purpose | Location |
|---------------------|----------|----------------------|----------|
| ATX power connector | ATX | Audio in - CD-ROM | J11 |
| SCSI port | CN1 | IR connector (front) | J15 |
| Game port | CN2 | SCSI interface | J16 |

| | | | |
|----------------------------|-------------------------------|----------------------------------|-----------|
| Microphone in | CN3 | IR connector (rear) | J17 |
| Line out | CN4 | Floppy drive interface | J18 |
| Line in | CN5 | Serial port 1 | J21 |
| Speaker | J2/Pins 1, 3, 5, 7 | Parallel port | J23 |
| IDE interface LED | J2/Pins 2 & 4 | Serial port 2 | J24 |
| Turbo LED | J2/Pins 6 & 8 | USB port 1 | J25 |
| Power LED & keylock | J2/Pins 9, 11, 13, 15, 17, 19 | PS/2 mouse port | J26 |
| Power switch | J2/Pins 10 & 12 | USB port 2 | J27 |
| Reset switch | J2/Pins 18 & 20 | CPU fan power 1 | J29 |
| IDE interface 1 | J4 | CPU fan power 2 | J30 |
| IDE interface 2 | J5 | SCSI interface/port activity LED | LED1 |
| External battery connector | J7 | 32-bit PCI slots | PC1 - PC4 |
| PC speaker connector | J10 | | |

USER CONFIGURABLE SETTINGS

| Function | | Label | Position |
|----------|-----------------------------------|-------|-------------------|
| » | CMOS memory normal operation | J8 | Pins 2 & 3 Closed |
| | CMOS memory clear | J8 | Pins 1 & 2 Closed |
| » | Flash BIOS voltage select 5v | J6 | Pins 1 & 2 Closed |
| | Flash BIOS voltage select 12v | J6 | Pins 2 & 3 Closed |
| » | Factory configured - do not alter | SW1/4 | Off |

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, & SDRAM memory.

Note: If using both SIMM and DIMM memory, only one bank of each may be filled simultaneously.

DIMM CONFIGURATION

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

| | | |
|-------|--------------|--------------|
| 64MB | (1) 4M x 64 | (1) 4M x 64 |
| 64MB | (1) 8M x 64 | None |
| 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) 8M x 64 | (1) 8M x 64 |
| 128MB | (1) 16M x 64 | None |
| 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 supports EDO, & SDRAM memory.

Note: If using both SIMM and DIMM memory, only one bank of each may be filled simultaneously.

CLOCK SPEED SELECTION

| Speed | SW1/1 | SW1/2 | SW1/3 |
|-----------|-------|-------|-------|
| 33.3MHz | Off | On | On |
| 50MHz | On | Off | On |
| 55MHz | On | On | Off |
| 60MHz | On | Off | Off |
| » 66.6MHz | Off | Off | Off |
| 68.5MHz | Off | Off | On |
| 75MHz | Off | On | Off |
| 83.3MHz | On | On | On |

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CPU TYPE SELECTION

| | |
|------|----|
| Type | J3 |
|------|----|

| | |
|---------------|--------------------------|
| Cyrix M2 | Pins 5 & 6, 7 & 8 closed |
| AM K6 | Pins 5 & 6, 7 & 8 closed |
| Pentium MMX | Pins 5 & 6, 7 & 8 closed |
| Cyrix 6X86 MX | Pins 1 & 2, 3 & 4 closed |
| AM K5 | Pins 1 & 2, 3 & 4 closed |
| Pentium | Pins 1 & 2, 3 & 4 closed |

CPU MULTIPLIER SELECTION (CX 6X86)

| Setting | BF0 | BF1 | BF2 |
|---------|-------------------|-------------------|-------------------|
| 2x | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 2x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |

CPU MULTIPLIER SELECTION (CX M2)

| Setting | BF0 | BF1 | BF2 |
|---------|-------------------|-------------------|-------------------|
| 2x | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 2.5x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3.5x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |

CPU MULTIPLIER SELECTION (AM K5)

| Setting | BF0 | BF1 | BF2 |
|---------|-------------------|-------------------|-------------------|
| 1.5x | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 1.5x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 1.75x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 2x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |

CPU MULTIPLIER SELECTION (AMD K6)

| Setting | BF0 | BF1 | BF2 |
|---------|-------------------|-------------------|-------------------|
| 2.5x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3.5x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |

| CPU MULTIPLIER SELECTION (PENTIUM) | | | |
|------------------------------------|-------------------|-------------------|-------------------|
| Setting | BF0 | BF1 | BF2 |
| 1.5x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 2x | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 2.5x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |

| CPU MULTIPLIER SELECTION (PENTIUM MMX) | | | |
|--|-------------------|-------------------|-------------------|
| Setting | BF0 | BF1 | BF2 |
| 2x | Pins 2 & 3 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |
| 2.5x | Pins 2 & 3 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3x | Pins 1 & 2 closed | Pins 2 & 3 closed | Pins 1 & 2 closed |
| 3.5x | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2 closed |

| CPU VOLTAGE SELECTION | | | | | |
|-----------------------|-------|-------|-------|-------|--------|
| Voltage | SW2/1 | SW2/2 | SW2/3 | SW2/4 | VID4 |
| 1.3V | Off | Off | Off | Off | Closed |
| 1.4V | Off | On | Off | Off | Closed |
| 1.5V | Off | Off | On | Off | Closed |
| 1.6V | Off | On | On | Off | Closed |
| 1.7V | Off | Off | Off | On | Closed |
| 1.8V | Off | On | Off | On | Closed |
| 1.9V | Off | Off | On | On | Closed |
| 2.0V | Off | Off | Off | Off | Open |

| | | | | | |
|------|-----|-----|-----|-----|------|
| 2.1V | On | Off | Off | Off | Open |
| 2.2V | Off | On | Off | Off | Open |
| 2.3V | On | On | Off | Off | Open |
| 2.4V | Off | Off | On | Off | Open |
| 2.5V | On | Off | On | Off | Open |
| 2.6V | Off | On | On | Off | Open |
| 2.7V | On | On | On | Off | Open |
| 2.8V | Off | Off | Off | On | Open |
| 2.9V | On | Off | Off | On | Open |
| 3.0V | Off | On | Off | On | Open |
| 3.1V | On | On | Off | On | Open |
| 3.2V | Off | Off | On | On | Open |
| 3.3V | On | Off | On | On | Open |
| 3.4V | Off | On | On | On | Open |
| 3.5V | On | On | On | On | Open |

MISCELLANEOUS TECHNICAL NOTES

Processor speeds listed include the speeds available for the Cyrix 6X86MX CPU, which is synonymous with the Cyrix M1 CPU.