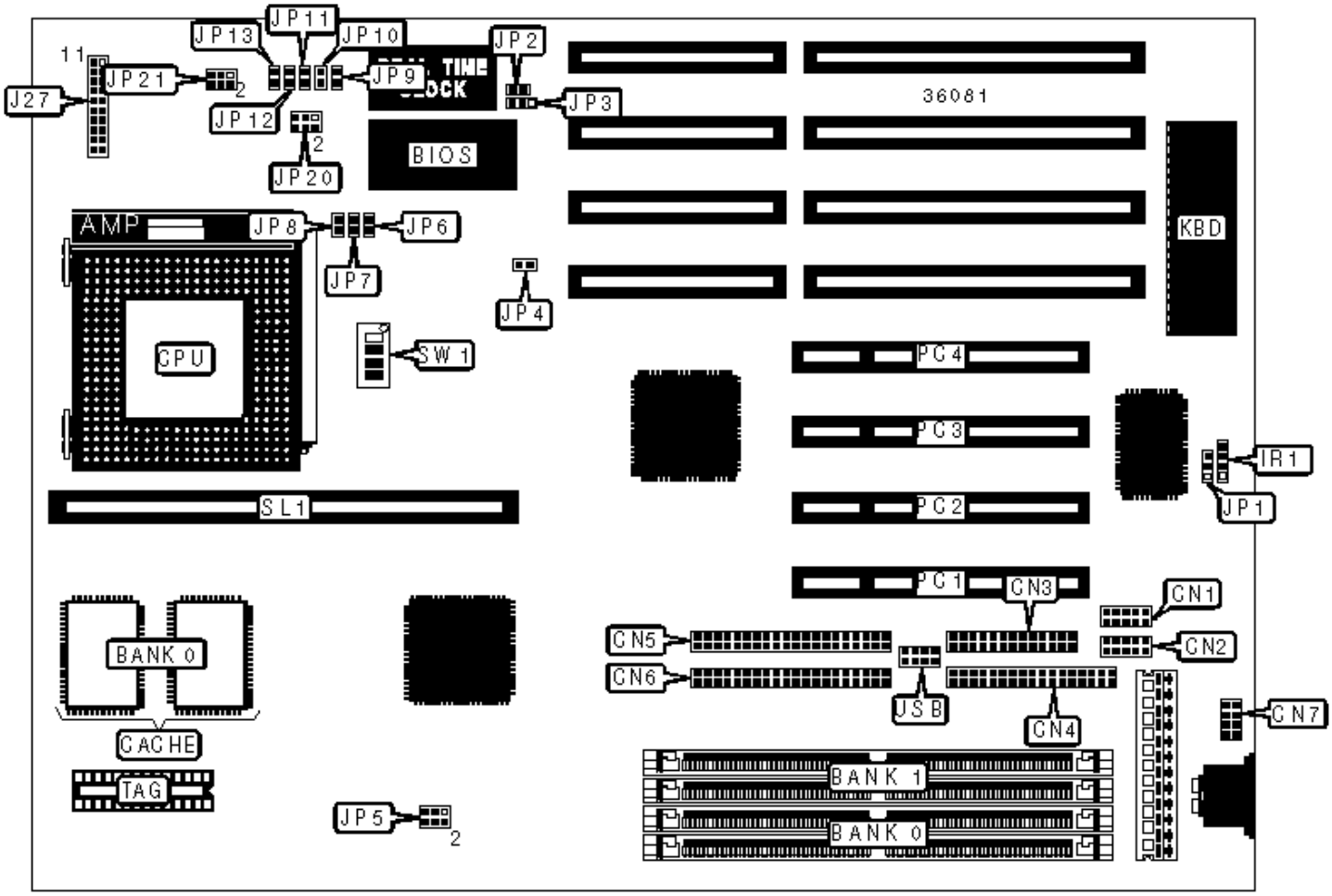
**TOTEM TECHNOLOGY CO., LTD.**

**TM-586 IP2**

**Configuration**



## CONNECTIONS

| Purpose | Location | Purpose | Location |
|---|---|---|---|
| Serial port 2 | CN1 | Power LED & keylock | J27/pins 6 - 10 |
| Serial port 1 | CN2 | IDE interface LED | J27/pins 11 & 12 |
| Parallel port | CN3 | Green PC LED | J27/pins 14 & 15 |
| Floppy drive interface | CN4 | Soft off power supply | J27/pins 16 & 17 |
| IDE interface 2 | CN5 | Reset switch | J27/pins 19 & 20 |
| IDE interface 1 | CN6 | 32-bit PCI slots | PC1 - PC4 |
| PS/2 mouse interface | CN7 | Cache slot | SL1 |
| IR connector | IR1 | USB connector | USB |
| Speaker | J27/pins 1 - 4 | | |

## USER CONFIGURABLE SETTINGS

| Function | | Label | Position |
|---|---|---|---|
| » | Factory configured - do not alter | JP1 | Open |
| » | CMOS memory normal operation | JP2 | Open |
| | CMOS memory clear | JP2 | Closed |
| » | Factory configured - do not alter | JP3 | Pins 1 & 2 closed |
| » | Factory configured - do not alter | JP4 | Open |
| » | Factory configured - do not alter | JP6 | Closed |
| » | Factory configured - do not alter | JP7 | Closed |
| » | Factory configured - do not alter | JP8 | 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) 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 |

| SIMM CONFIGURATION (CON'T) | | |
|---|---|---|
| Size | Bank 0 | Bank 1 |
| 256MB | (2) 16M x 36 | (2) 16M x 36 |
| 256MB | (2) 32M x 36 | None |
| 264MB | (2) 32M x 36 | (2) 1M x 36 |
| 272MB | (2) 32M x 36 | (2) 2M x 36 |
| 288MB | (2) 32M x 36 | (2) 4M x 36 |

| | | |
|---|---|---|
| 320MB | (2) 32M x 36 | (2) 8M x 36 |
| 384MB | (2) 32M x 36 | (2) 16M x 36 |
| 512MB | (2) 32M x 36 | (2) 32M x 36 |
| Note: Board accepts EDO memory. | | |

| CACHE CONFIGURATION | | | |
|---|---|---|---|
| Size | Bank 0 | SL1 | TAG |
| 256KB | (2) 32K x 32 | Not installed | Unidentified |
| 256KB | None | 256KB module installed | Unidentified |
| 512KB | (2) 64K x 32 | Not installed | Unidentified |
| 512KB | None | 512KB module installed | Unidentified |

| CACHE JUMPER CONFIGURATION | | | | | |
|---|---|---|---|---|---|
| Size | JP9 | JP10 | JP11 | JP12 | JP13 |
| 256KB | Open | Open | Open | Closed | Open |
| 512KB | Open | Closed | Closed | Open | Closed |

| CPU SPEED SELECTION (CX 6X86) | | | | | | |
|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | SW1/1 | SW1/2 | SW1/3 | SW1/4 |
| 120MHz | 50MHz | 2x | On | On | On | Off |
| 150MHz | 60MHz | 2x | On | Off | On | Off |
| 166MHz | 66MHz | 2x | Off | On | On | Off |

| CPU SPEED SELECTION (AM 5K86) | | | | | | |
|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | SW1/1 | SW1/2 | SW1/3 | SW1/4 |
| 75MHz | 50MHz | 1.5x | On | On | Off | Off |

| | | | | | | |
|---|---|---|---|---|---|---|
| 90MHz | 60MHz | 1.5x | On | Off | Off | Off |

| CPU SPEED SELECTION (AM K5) | | | | | | |
|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | SW1/1 | SW1/2 | SW1/3 | SW1/4 |
| 75MHz | 50MHz | 1.5x | On | On | Off | Off |
| 90MHz | 60MHz | 1.5x | On | Off | Off | Off |
| 100MHz | 66MHz | 1.5x | Off | On | Off | Off |
| 120MHz | 60MHz | 2x | On | Off | On | Off |
| 133MHz | 66MHz | 2x | Off | On | On | Off |
| 166MHz | 66MHz | 2.5x | Off | On | On | On |

| CPU SPEED SELECTION (INTEL) | | | | | | |
|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | SW1/1 | SW1/2 | SW1/3 | SW1/4 |
| 75MHz | 50MHz | 1.5x | On | On | Off | Off |
| 90MHz | 60MHz | 1.5x | On | Off | Off | Off |
| 100MHz | 66MHz | 1.5x | Off | On | Off | Off |
| 120MHz | 60MHz | 2x | On | Off | On | Off |
| 133MHz | 66MHz | 2x | Off | On | On | Off |
| 150MHz | 60MHz | 2.5x | On | Off | On | Off |
| 166MHz | 66MHz | 2.5x | Off | On | On | On |
| 180MHz | 60MHz | 3x | On | Off | Off | On |
| 200MHz | 66MHz | 3x | Off | On | Off | On |

| CPU SPEED SELECTION (INTEL MMX) | | | | | | |
|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | SW1/1 | SW1/2 | SW1/3 | SW1/4 |
| 166MHz | 66MHz | 2.5x | Off | On | On | On |

| | | | | | | |
|---|---|---|---|---|---|---|
| 200MHz | 66MHz | 3x | Off | On | Off | On |
| 233MHz | 66MHz | 3.5x | Off | On | Off | Off |

| CPU VOLTAGE SELECTION (SINGLE) | | | |
|---|---|---|---|
| Voltage | JP5 | JP20 | JP21 |
| 3.3v | Pins 1 & 2 closed | Pins 1 & 2 closed | Pins 1 & 2, 3 & 4, 5 & 6 closed |
| 3.45v | Pins 3 & 4 closed | Pins 3 & 4 closed | Pins 1 & 2, 3 & 4, 5 & 6 closed |
| 3.6v | Pins 5 & 6 closed | Pins 5 & 6 closed | Pins 1 & 2, 3 & 4, 5 & 6 closed |

| CPU VOLTAGE SELECTION (DUAL) | | | | |
|---|---|---|---|---|
| Voltage | V core | JP5 | JP20 | JP21 |
| 3.3v | 2.8v | Pins 1 & 2 closed | Pins 5 & 6 closed | Open |