# SUPERPOWER COMPUTER CO., LTD.

## SP-586TA

## Configuration
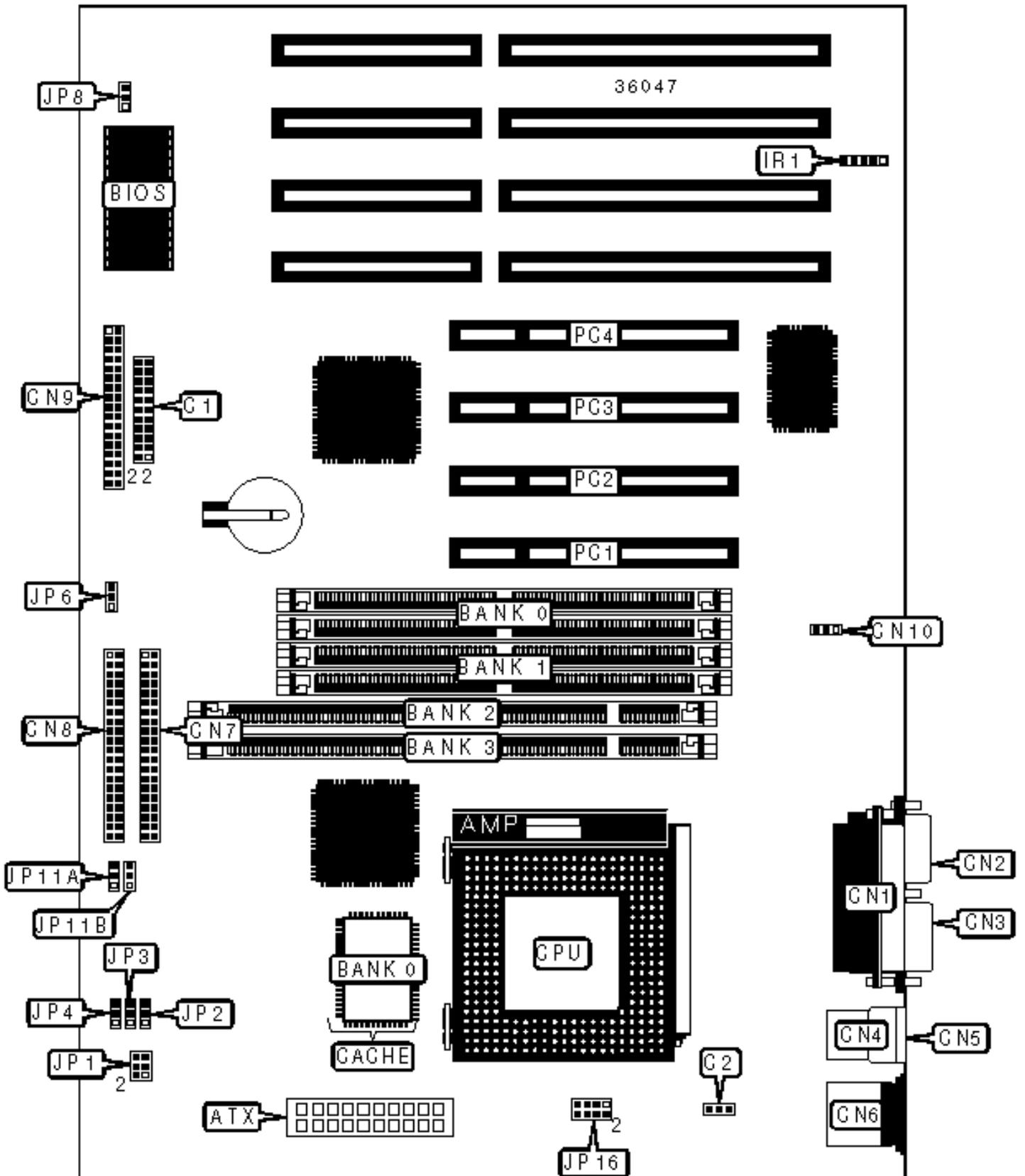
## CONNECTIONS

| Purpose | Location | Purpose | Location |
| --- | --- | --- | --- |
| ATX power connector | ATX | Serial port 2 | CN2 |
| Power LED & keylock | C1/pins 1 - 5 | Serial port 1 | CN3 |
| IDE interface LED | C1/pins 6 & 17 | USB connector 1 | CN4 |
| Green PC connector | C1/pins 7 & 16 | USB connector 2 | CN5 |
| Reset switch | C1/pins 8 & 15 | PS/2 mouse port | CN6 |
| Turbo LED | C1/pins 9 & 14 | IDE interface 1 | CN7 |
| Green PC LED | C1/pins 10 & 13 | IDE interface 2 | CN8 |
| Soft off power supply | C1/pins 11 & 12 | Floppy drive interface | CN9 |
| Speaker | C1/pins 19 - 22 | Wake on LAN connector | CN10 |
| CPU fan power | C2 | IR connector | IR1 |
| Parallel port | CN1 | 32-bit PCI slots | PC1 - PC4 |

## USER CONFIGURABLE SETTINGS

| | Function | Label | Position |
| --- | --- | --- | --- |
| » | CMOS memory normal operation | JP6 | Pins 1 & 2 closed |
| | CMOS memory clear | JP6 | Pins 2 & 3 closed |
| | Flash BIOS voltage select 12v | JP8 | Pins 1 & 2 closed |
| | Flash BIOS voltage select 5v | JP8 | 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) 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. | | |

| 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. | | |

| DIMM VOLTAGE CONFIGURATION | | |
|---|---|---|
| Voltage | JP11A | JP11B |
| 3.3v | Pins 2 & 3 closed | Pins 2 & 3 closed |
| 5v | Pins 1 & 2 closed | Pins 1 & 2 closed |

| CACHE CONFIGURATION | |
|---|---|
| Size | Bank 0 |
| 512KB | (1) 64K x 64 |

## CPU SPEED SELECTION (CX 6X86)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 150MHz | 60MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 2 & 3 |
| 166MHz | 66MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (CX 6X86L)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 150MHz | 60MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 2 & 3 |
| 166MHz | 66MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 75MHz | 2x | Closed | Open | Open | 1 & 2 | 2 & 3 | 1 & 2 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (CX 6X86MX)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 166MHz | 66MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 75MHz | 2x | Closed | Open | Open | 1 & 2 | 2 & 3 | 1 & 2 |
| 233MHz | 75MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 2 & 3 | 1 & 2 |
| 300MHz | 75MHz | 3x | Open | Closed | Open | 1 & 2 | 2 & 3 | 1 & 2 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (AM K5)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 133MHz | 66MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 150MHz | 60MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 2 & 3 |

| 166MHz | 66MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
|---|---|---|---|---|---|---|---|---|

| Note: Pins designated should be in the closed position. |
|---|

## CPU SPEED SELECTION (AM K6)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 166MHz | 66MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 3x | Open | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 66MHz | 3.5x | Open | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 266MHz | 66MHz | 4x | Closed | Open | Closed | 1 & 2 | 1 & 2 | 1 & 2 |
| 300MHz | 66MHz | 4.5x | Closed | Closed | Closed | 1 & 2 | 1 & 2 | 1 & 2 |

| Note: Pins designated should be in the closed position. |
|---|

## CPU SPEED SELECTION (INTEL)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|
| 75MHz | 50MHz | 1.5x | Open | Open | Open | 2 & 3 | 2 & 3 | 2 & 3 |
| 90MHz | 60MHz | 1.5x | Open | Open | Open | 1 & 2 | 1 & 2 | 2 & 3 |
| 100MHz | 66MHz | 1.5x | Open | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 120MHz | 60MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 2 & 3 |
| 133MHz | 66MHz | 2x | Closed | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 150MHz | 60MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 2 & 3 |
| 166MHz | 66MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 3x | Open | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |

| Note: Pins designated should be in the closed position. |
|---|

## CPU SPEED SELECTION (INTEL MMX)

| CPU speed | Clock speed | Multiplier | JP1/ pins 1 & 2 | JP1/ pins 3 & 4 | JP1/ pins 5 & 6 | JP2 | JP3 | JP4 |
|---|---|---|---|---|---|---|---|---|

| 166MHz | 66MHz | 2.5x | Closed | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
|---|---|---|---|---|---|---|---|---|
| 200MHz | 66MHz | 3x | Open | Closed | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 66MHz | 3.5x | Open | Open | Open | 1 & 2 | 1 & 2 | 1 & 2 |
| Note: Pins designated should be in the closed position. | | | | | | | | |

| CPU VOLTAGE SELECTION | | | | |
|---|---|---|---|---|
| Voltage | JP16/pins 1 & 2 | JP16/pins 3 & 4 | JP16/pins 5 & 6 | JP16/pins 7 & 8 |
| 2.0v | Open | Open | Open | Open |
| 2.1v | Closed | Open | Open | Open |
| 2.2v | Open | Open | Closed | Open |
| 2.3v | Closed | Closed | Open | Open |
| 2.4v | Open | Open | Closed | Open |
| 2.5v | Closed | Open | Closed | Open |
| 2.6v | Open | Closed | Closed | Open |
| 2.7v | Closed | Closed | Closed | Open |
| 2.8v | Open | Open | Open | Closed |
| 2.9v | Closed | Open | Open | Closed |
| 3.0v | Open | Closed | Closed | Open |
| 3.1v | Closed | Closed | Open | Closed |
| 3.2v | Open | Open | Closed | Closed |
| 3.3v | Open | Closed | Closed | Closed |
| 3.5v | Closed | Closed | Closed | Closed |