# ACER, INC.

## V59LA

## Configuration



35880

CN2
CN3
CN1
JP1
JP2
CN4
AMP
BANK 0
JP4
JP3
CN5
JP5
BANK 1
CPU
BANK 0
JP7
VIDEO
CN10
CACHE
BANK 0
S1
JP8
JP14
JP13
BIOS
JP11
2
CN14
CN11
JP9
JP10
CN15
CN12
CN7
JP16
SL1
CN9
JP12
CN16
JP19
JP15
CN18
CN13
JP17
JP20
CN17
JP18
CN19
CDIN
JP21
CN20
JP22
CN21
CN23
CN24
CN27
CN25
CN28
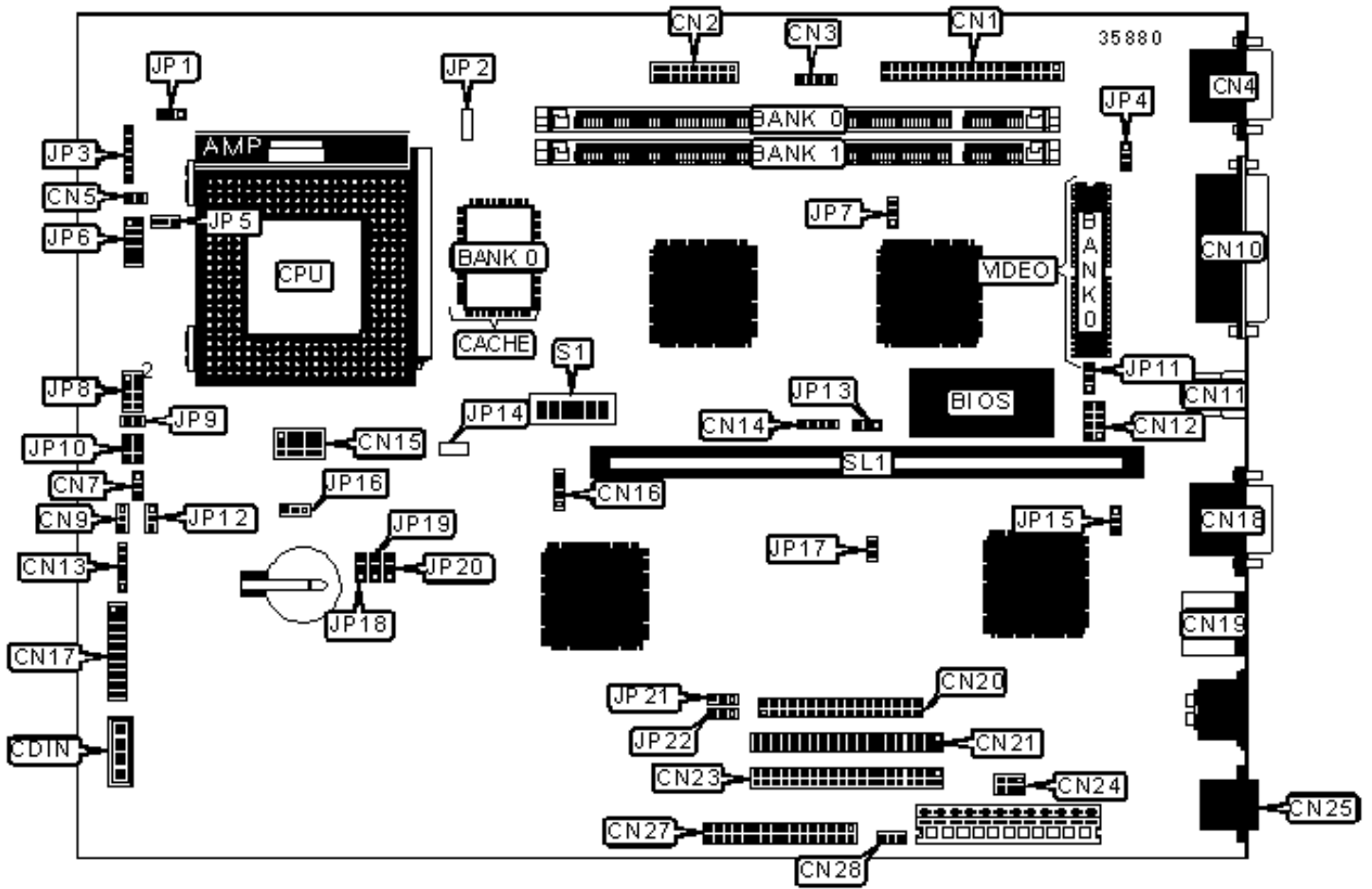
# CONNECTIONS

| Purpose | Location | Purpose | Location |
|---|---|---|---|
| Audio in - CD-ROM | CDIN | IDE interface 1 | CN21 |
| AMC connector | CN1 | IDE interface 2 | CN23 |
| VGA interface | CN2 | LAN LED | CN24 |
| VGA port | CN4 | Ethernet 10BaseT connector | CN25 |
| Chassis fan power | CN5 | Audio connector | CN27 |
| Printer connector | CN6 | Green PC connector | CN28 |
| Power LED | CN8 | Modem connector | CN29 |
| Reset switch | CN9 | Chassis fan power | JP3 |
| Parallel port | CN10 | IDE interface LED | JP8/pins 1 - 3 |
| USB connector | CN11 | Power message LED | JP8/pins 2/4/6 |
| Serial port/USB connector | CN12 | Power on connector | JP8/pins 7 & 8 |
| Wake on LAN connector | CN14 | Power on connector | JP9 |
| Voltage connector | CN15 | Microphone in | JP10/pins 2 & 4 |
| Wake on modem connector | CN16 | Wavetable connector | JP10/pins 1/3/5 |
| Game interface | CN17 | LAN LED | JP17 |
| Serial port 1 | CN18 | Speaker | JP25 |
| PS/2 mouse port | CN19 | Riser slot | SL1 |
| Floppy drive interface | CN20 | | |

Note:  The location of CN6, CN8, CN29 & JP25 are unidentified.

# USER CONFIGURABLE SETTINGS

| | Function | Label | Position |
|---|---|---|---|
| » | Factory configured - do not alter | CN3 | Unidentified |
| » | Factory configured - do not alter | CN17 | Unidentified |

| | Function | Label | Position |
|---|---|---|---|
| » | Interrupt enabled | JP4 | Pins 2 & 3 closed |
| | Interrupt disabled | JP4 | Pins 1 & 2 closed |
| » | On board video enabled | JP7 | Pins 2 & 3 closed |
| | On board video disabled | JP7 | Pins 1 & 2 closed |
| » | Flash BIOS voltage select 5v | JP11 | Pins 2 & 3 closed |
| | Flash BIOS voltage select 12v | JP11 | Pins 1 & 2 closed |
| » | Support green PC connector | JP12 | Pins 1 & 2 closed |
| | Support reset switch | JP12 | Pins 2 & 3 closed |
| » | Boot block enabled | JP13 | Pins 2 & 3 closed |
| | Boot block disabled | JP13 | Pins 1 & 2 closed |

| USER CONFIGURABLE SETTINGS (CON'T) | | |
|---|---|---|
| Function | Label | Position |
| » LAN disabled | JP15 | Pins 2 & 3 closed |
| LAN enabled | JP15 | Pins 1 & 2 closed |
| » UPS enabled | JP16 | Pins 1 & 2 closed |
| UPS disabled | JP16 | Pins 2 & 3 closed |
| » BIOS type select Acer | JP21 | Pins 1 & 2 closed |
| BIOS type select OEM | JP21 | Pins 2 & 3 closed |
| » Password disabled | JP22 | Pins 2 & 3 closed |
| Password enabled | JP22 | Pins 1 & 2 closed |

| DIMM CONFIGURATION | | |
|---|---|---|
| Size | Bank 0 | Bank 1 |
| 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 EDO & SDRAM memory. | | |

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

| VIDEO MEMORY CONFIGURATION |
|---|
| Note:  The video memory is factory installed and is not configurable. |

## CPU SPEED SELECTION (CX 6X86MX)

| CPU speed | Clock speed | Multiplier | JP18 | JP19 | JP20 |
|-----------|-------------|------------|-------|-------|-------|
| 200MHz | 66MHz | 2.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 66MHz | 3x | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 75MHz | 2.5x | 1 & 2 | 2 & 3 | 2 & 3 |
| 266MHz | 66MHz | 3.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 266MHz | 75MHz | 3x | 1 & 2 | 2 & 3 | 2 & 3 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (CX 6X86MX, CON'T)

| CPU speed | Clock speed | Multiplier | S1/1 | S1/2 | S1/3 | S1/4 | S1/5 |
|-----------|-------------|------------|------|------|------|------|------|
| 200MHz | 66MHz | 2.5x | Off | Off | Off | On | On |
| 233MHz | 66MHz | 3x | Off | Off | Off | Off | On |
| 233MHz | 75MHz | 2.5x | Off | Off | Off | On | On |
| 266MHz | 66MHz | 3.5x | Off | Off | Off | Off | Off |
| 266MHz | 75MHz | 3x | Off | Off | Off | Off | On |

## CPU SPEED SELECTION (AM K6)

| CPU speed | Clock speed | Multiplier | JP18 | JP19 | JP20 |
|-----------|-------------|------------|-------|-------|-------|
| 166MHz | 66MHz | 2.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 3x | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 66MHz | 3.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 266MHz | 66MHz | 4x | 1 & 2 | 1 & 2 | 1 & 2 |
| 300MHz | 66MHz | 4.5x | 1 & 2 | 1 & 2 | 1 & 2 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (AM K6, CON'T)

| CPU speed | Clock speed | Multiplier | S1/1 | S1/2 | S1/3 | S1/4 | S1/5 |
|---|---|---|---|---|---|---|---|
| 166MHz | 66MHz | 2.5x | Off | Off | Off | On | On |
| 200MHz | 66MHz | 3x | Off | Off | Off | Off | On |
| 233MHz | 66MHz | 3.5x | Off | Off | Off | Off | Off |
| 266MHz | 66MHz | 4x | Off | Off | Off | On | Off |
| 300MHz | 66MHz | 4.5x | Off | Off | Off | On | On |

## CPU SPEED SELECTION (INTEL)

| CPU speed | Clock speed | Multiplier | JP18 | JP19 | JP20 |
|---|---|---|---|---|---|
| 90MHz | 60MHz | 1.5x | 2 & 3 | 1 & 2 | 1 & 2 |
| 100MHz | 66MHz | 1.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 120MHz | 60MHz | 2x | 2 & 3 | 1 & 2 | 1 & 2 |
| 133MHz | 66MHz | 2x | 1 & 2 | 1 & 2 | 1 & 2 |
| 150MHz | 60MHz | 2.5x | 2 & 3 | 1 & 2 | 1 & 2 |
| 166MHz | 66MHz | 2.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 3x | 1 & 2 | 1 & 2 | 1 & 2 |

Note: Pins designated should be in the closed position.

## CPU SPEED SELECTION (INTEL, CON'T)

| CPU speed | Clock speed | Multiplier | S1/1 | S1/2 | S1/3 | S1/4 | S1/5 |
|---|---|---|---|---|---|---|---|
| 90MHz | 60MHz | 1.5x | On | Off | Off | Off | Off |
| 100MHz | 66MHz | 1.5x | Off | Off | Off | Off | Off |
| 120MHz | 60MHz | 2x | On | Off | Off | On | Off |
| 133MHz | 66MHz | 2x | Off | Off | Off | On | Off |

| CPU speed | Clock speed | Multiplier | | | | | |
|---|---|---|---|---|---|---|---|
| 150MHz | 60MHz | 2.5x | On | Off | Off | On | On |
| 166MHz | 66MHz | 2.5x | Off | Off | Off | On | On |
| 200MHz | 66MHz | 3x | Off | Off | Off | Off | On |

| CPU SPEED SELECTION (INTEL MMX) | | | | | |
|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | JP18 | JP19 | JP20 |
| 166MHz | 66MHz | 2.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| 200MHz | 66MHz | 3x | 1 & 2 | 1 & 2 | 1 & 2 |
| 233MHz | 66MHz | 3.5x | 1 & 2 | 1 & 2 | 1 & 2 |
| Note: Pins designated should be in the closed position. | | | | | |

| CPU SPEED SELECTION (INTEL MMX, CON'T) | | | | | | | |
|---|---|---|---|---|---|---|---|
| CPU speed | Clock speed | Multiplier | S1/1 | S1/2 | S1/3 | S1/4 | S1/5 |
| 166MHz | 66MHz | 2.5x | Off | Off | Off | On | On |
| 200MHz | 66MHz | 3x | Off | Off | Off | Off | On |
| 233MHz | 66MHz | 3.5x | Off | Off | Off | Off | Off |
| Note: Pins designated should be in the closed position. | | | | | | | |

| CPU TYPE SELECTION | | | |
|---|---|---|---|
| Type | JP1 | JP2 | JP14 |
| P54C | Pins 2 & 3 closed | Closed | Open |
| P55C | Pins 2 & 3 closed | Open | Closed |
| AM K6 | Pins 2 & 3 closed | Open | Closed |
| CX MII | Pins 2 & 3 closed | Open | Closed |
| AM K6-266 | Pins 1 & 2 closed | Open | Closed |
| AM K6-300 | Pins 1 & 2 closed | Open | Closed |

| CPU VOLTAGE SELECTION (SINGLE) | | |
|---|---|---|
| Voltage | | JP5 |
| » | 3.3v | Pins 2 & 3 closed |
| | 3.52v | Pins 1 & 2 closed |

| CPU VOLTAGE SELECTION (DUAL) | |
|---|---|
| Voltage | JP6 |
| 1.8v | Pins 9 & 10 closed |
| 2.1v | Pins 7 & 8 closed |
| 2.8v | Pins 5 & 6 closed |
| 2.9v | Pins 3 & 4 closed |
| 3.2v | Pins 1 & 2 closed |