# SOYO COMPUTER CO., LTD.
# 5 V X 0 / X 2 / X 5

| | |
|---|---|
| **Processor** | CX M1/AM K5/Pentium |
| **Processor Speed** | 75/90/100/120/133/150/166/180/200MHz |
| **Chip Set** | Intel |
| **Video Chip Set** | None |
| **Maximum Onboard Memory** | 128MB (EDO supported) |
| **Maximum Video Memory** | None |
| **Cache** | 256/512KB |
| **BIOS** | Award |
| **Dimensions** | 305mm x 244mm |
| **I/O Options** | 32-bit PCI slots (3), CD-ROM connector, floppy drive interface, game port, green PC connector, IDE interfaces (2), parallel port, PS/2 mouse port, serial ports (2), IR connector, USB connectors (2), ATX power connector, speaker out, line in, microphone in, wavetable connector, Creative Labs wavetable connector |
| **NPU Options** | None |
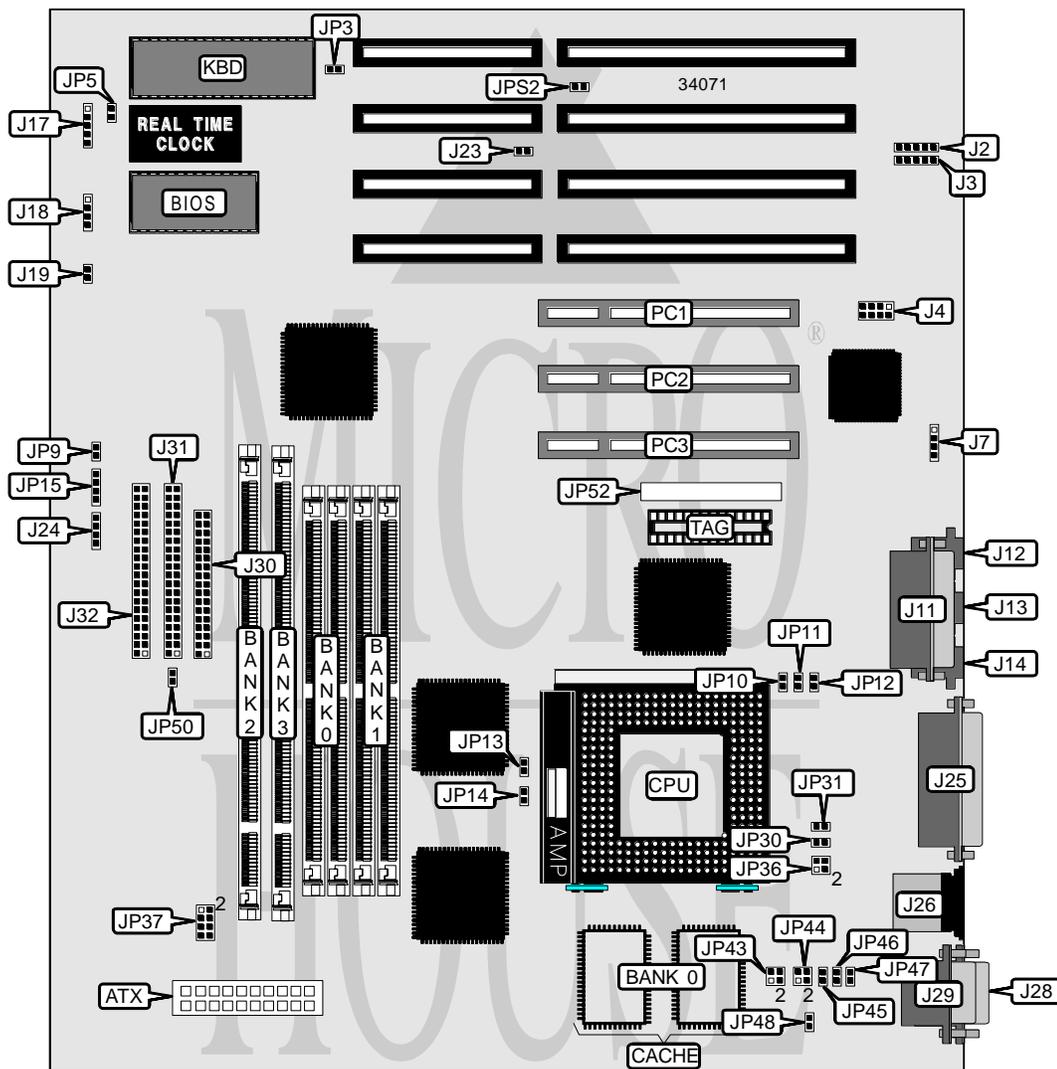
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| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| ATX power connector | ATX | Green PC connector | J23 |
| USB connector | J2 | IDE interface LED | J24 |
| USB connector | J3 | Parallel port | J25 |
| Creative Labs wavetable connector | J4 | PS/2 mouse port | J26 |
| CD-ROM in connector | J7 | Serial port 1 | J28 |
| Game port | J11 | Serial port 2 | J29 |
| Speaker out | J12 | Floppy drive interface | J30 |
| Microphone in | J13 | IDE interface 1 | J31 |
| Line out | J14 | IDE interface 2 | J32 |
| Power LED & keylock | J17 | IR connector | JP15 |
| Speaker | J18 | Wavetable connector | JP52 |
| Reset switch | J19 | 32-bit PCI slots | PC1- -PC3 |

| USER CONFIGURABLE SETTINGS | | |
|---|---|---|
| **Function** | **Label** | **Position** |
| í  Monitor type select EGA/VGA | JP3 | Closed |
|    Monitor type select monochrome | JP3 | Open |
| í  CMOS memory normal operation | JP5 | Open |
|    CMOS memory clear | JP5 | Closed |
| í  Factory configured - do not alter | JP9 | Unidentified |
| í  Factory configured - do not alter | JP50 | Unidentified |
| í  PS/2 mouse disabled | JPS2 | Open |
|    PS/2 mouse enabled | JPS2 | Closed |

| DIMM/DRAM CONFIGURATION | | | | |
|---|---|---|---|---|
| **Size** | **Bank 0** | **Bank 1** | **Bank 2** | **Bank 3** |
| 4MB | (2) 512K x 36 | None | None | None |
| 8MB | (2) 1M x 36 | None | None | None |
| 8MB | None | None | (1) 1M x 64 | None |
| 16MB | (2) 2M x 36 | None | None | None |
| 16MB | None | None | (1) 2M x 64 | None |
| 16MB | (2) 1M x 36 | (2) 1M x 36 | None | None |
| 16MB | (2) 1M x 36 | None | None | (1) 1M x 64 |
| 16MB | None | None | (1) 1M x 64 | (1) 1M x 64 |
| 24MB | (2) 2M x 36 | None | None | (1) 1M x 64 |
| 32MB | (2) 4M x 36 | None | None | None |
| 32MB | None | None | (1) 4M x 64 | None |
| 32MB | (2) 2M x 36 | (2) 2M x 36 | None | None |
| 32MB | (2) 2M x 36 | None | None | (1) 2M x 64 |
| 32MB | None | None | (1) 2M x 64 | (1) 2M x 64 |
| 32MB | (2) 2M x 36 | None | None | (1) 2M x 64 |
| 40MB | (2) 4M x 36 | (2) 1M x 36 | None | None |

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| DIMM/DRAM CONFIGURATION (CON'T) | | | |
|---|---|---|---|
| **Size** | **Bank 0** | **Bank 1** | **Bank 2** | **Bank 3** |
| 40MB | (2) 4M x 36 | None | None | (1) 1M x 64 |
| 48MB | None | (2) 2M x 36 | (1) 4M x 64 | None |
| 48MB | (2) 2M x 36 | None | None | (1) 4M x 64 |
| 48MB | (2) 4M x 36 | (2) 2M x 36 | None | None |
| 48MB | (2) 4M x 36 | None | None | (1) 2M x 64 |
| 64MB | (2) 8M x 36 | None | None | None |
| 64MB | None | None | (1) 8M x 64 | None |
| 64MB | (2) 4M x 36 | None | None | (1) 4M x 64 |
| 64MB | None | None | (1) 4M x 64 | (1) 4M x 64 |
| 64MB | (2) 4M x 36 | (2) 4M x 36 | None | None |
| 64MB | None | (2) 4M x 36 | (1) 4M x 64 | None |
| 72MB | (2) 8M x 36 | (2) 1M x 36 | None | None |
| 72MB | (2) 8M x 36 | None | None | (1) 1M x 64 |
| 80MB | None | (2) 2M x 36 | (1) 8M x 64 | None |
| 80MB | (2) 2M x 36 | None | None | (1) 8M x 64 |
| 80MB | (2) 8M x 36 | (2) 2M x 36 | None | None |
| 96MB | (2) 4M x 36 | None | None | (1) 8M x 64 |
| 96MB | (2) 8M x 36 | (2) 4M x 36 | None | None |
| 96MB | (2) 8M x 36 | None | None | (1) 4M x 64 |
| 96MB | None | (2) 8M x 36 | (1) 4M x 64 | None |
| 128MB | (2) 8M x 36 | (2) 8M x 36 | None | None |
| 128MB | (2) 8M x 36 | None | None | (1) 8M x 64 |
| 128MB | None | None | (1) 8M x 64 | (1) 8M x 64 |
| 128MB | (2) 8M x 36 | None | None | (1) 8M x 64 |

Note:   Board accepts EDO memory.  Banks 0 & 1 and 2 & 3 are interchangeable.  Banks 0 & 3 and banks 1 & 2 may be used together.

| DIMM VOLTAGE CONFIGURATION | |
|---|---|
| **Voltage** | **JP37** |
| í  3.3v | Pins 5 & 6 closed |
| 5v | Pins 1 & 2 closed |

| CACHE CONFIGURATION | | |
|---|---|---|
| **Size** | **Bank 0** | **TAG** |
| 256KB | (2) 32K x 32 | (1) 16K x 8 |
| 512KB | (2) 64K x 32 | (1) 16K x 8 |

| CPU SPEED SELECTION (CYRIX) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP10** | **JP11** | **JP12** | **JP13** | **JP14** |
| 120MHz | 50MHz | 2x | Closed | Closed | Open | Closed | Open |
| 133MHz | 55MHz | 2x | Open | Closed | Open | Closed | Open |
| 150MHz | 60MHz | 2x | Closed | Open | Open | Closed | Open |
| 166MHz | 66MHz | 2x | Open | Open | Open | Closed | Open |

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| CPU SPEED SELECTION (AMD) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP10** | **JP11** | **JP12** | **JP13** | **JP14** |
| 75MHz | 50MHz | 1.5x | Closed | Closed | Open | Open | Open |
| 90MHz | 60MHz | 1.5x | Closed | Open | Open | Open | Open |
| 100MHz | 66MHz | 1.5x | Open | Open | Open | Open | Open |
| 120MHz | 60MHz | 1.5x | Closed | Open | Open | Open | Open |
| 133MHz | 66MHz | 1.5x | Open | Open | Open | Open | Open |
| 150MHz | 60MHz | 2x | Closed | Open | Open | Closed | Open |
| 166MHz | 66MHz | 2x | Open | Open | Open | Closed | Open |

| CPU SPEED SELECTION (INTEL) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **JP10** | **JP11** | **JP12** | **JP13** | **JP14** |
| 75MHz | 50MHz | 1.5x | Closed | Closed | Open | Open | Open |
| 90MHz | 60MHz | 1.5x | Closed | Open | Open | Open | Open |
| 100MHz | 66MHz | 1.5x | Open | Open | Open | Open | Open |
| 120MHz | 60MHz | 2x | Closed | Open | Open | Closed | Open |
| 133MHz | 66MHz | 2x | Open | Open | Open | Closed | Open |
| 150MHz | 60MHz | 2.5x | Closed | Open | Open | Closed | Closed |
| 166MHz | 66MHz | 2.5x | Open | Open | Open | Closed | Closed |
| 180MHz | 60MHz | 3x | Closed | Open | Open | Open | Closed |
| 200MHz | 66MHz | 3x | Open | Open | Open | Open | Closed |

| CPU VOLTAGE SELECTION (SINGLE) | | | | |
|---|---|---|---|---|
| **Voltage** | **JP30** | **JP31** | **JP36** | **JP43** |
| 3.3v | Open | Open | Open | 1 & 2, 3 & 4 |
| 3.52v | Open | Closed | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | |

| CPU VOLTAGE SELECTION (SINGLE, CON'T) | | | | | |
|---|---|---|---|---|---|
| **Voltage** | **JP44** | **JP45** | **JP46** | **JP47** | **JP48** |
| 3.3v | Open | Open | Open | Open | Closed |
| 3.52v | 1 & 2, 3 & 4 | Closed | Open | Open | Open |
| Note:  Pins designated should be in the closed position. | | | | | |

| CPU VOLTAGE SELECTION (DUAL) | | | | | |
|---|---|---|---|---|---|
| **Voltage** | **V core** | **JP30** | **JP31** | **JP36** | **JP43** |
| 3.3v | 2.5v | Open | Open | Open | Open |
| 3.3v | 2.7v | Open | Open | Open | Open |
| 3.3v | 2.8v | Open | Open | Open | Open |
| 3.3v | 2.9v | Open | Open | Open | Open |
| 3.52v | 2.5v | Open | Open | Open | Open |
| 3.52v | 2.7v | Open | Open | Open | Open |
| 3.52v | 2.8v | Open | Open | Open | Open |
| 3.52v | 2.9v | Open | Open | Open | Open |

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| CPU VOLTAGE SELECTION (DUAL, CON'T) | | | | | | |
|---|---|---|---|---|---|---|
| **Voltage** | **V core** | **JP44** | **JP45** | **JP46** | **JP47** | **JP48** |
| 3.3v | 2.5v | 1 & 2, 3 & 4 | Open | Open | Closed | Closed |
| 3.3v | 2.7v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |
| 3.3v | 2.8v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |
| 3.3v | 2.9v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |
| 3.52v | 2.5v | 1 & 2, 3 & 4 | Open | Open | Closed | Closed |
| 3.52v | 2.7v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |
| 3.52v | 2.8v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |
| 3.52v | 2.9v | 1 & 2, 3 & 4 | Open | Closed | Open | Closed |