# TEKNOR INDUSTRIAL COMPUTERS, INC.

## PCI-942 (VER. 1.0)

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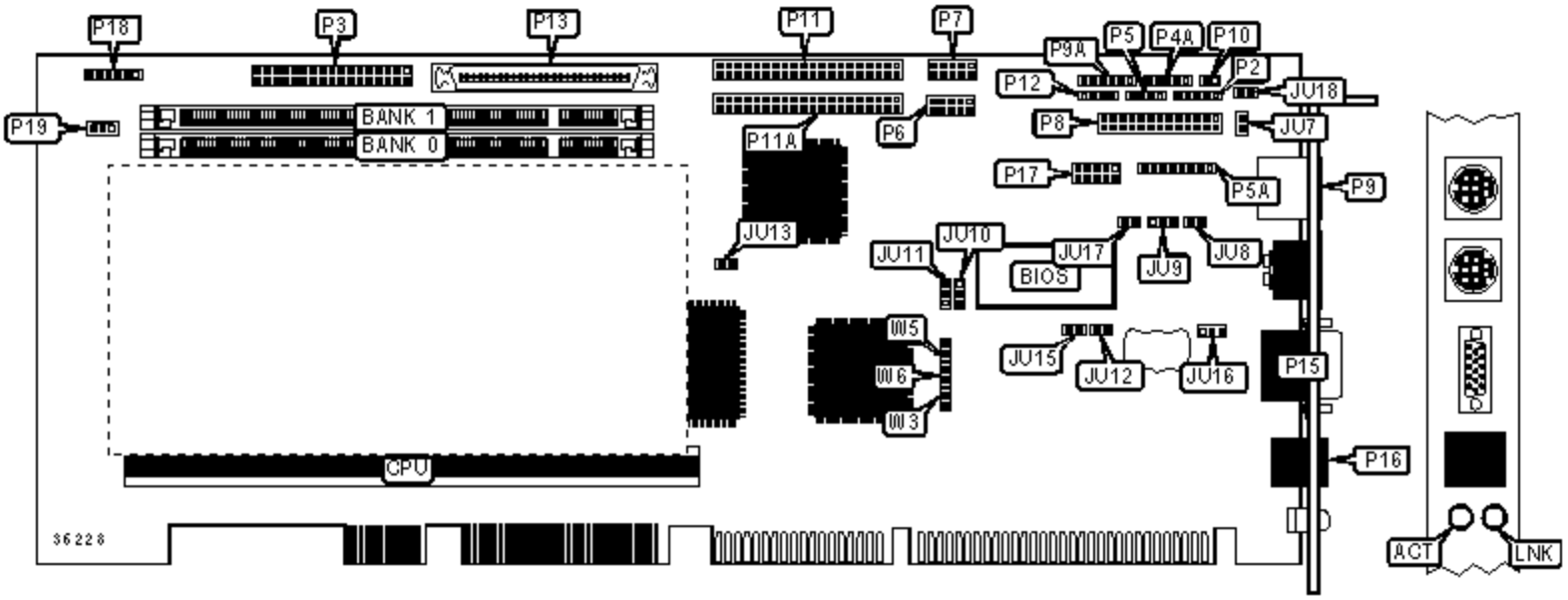
|---|---|
| **Device Type** | Single board computer |
| **Processor** | Pentium II |
| **Processor Speed** | 233/266/300/333MHz |
| **Chip Set** | Intel 440LX |
| **Video Chip Set** | Cirrus Logic |
| **Maximum Onboard Memory** | 512MB (EDO & SDRAM supported) |
| **Maximum Video Memory** | 2MB |
| **Maximum Video Resolution** | 1280 x 1024 |
| **Cache** | 512KB |
| **BIOS** | AMI |
| **Dimensions** | 338mm x 122mm |
| **I/O Options** | Ethernet 10/100BaseT interface via RJ-45 connector, floppy drive interface, IDE interfaces (2), SCSI interface, parallel port, PS/2 mouse interface, serial ports (2), VGA feature connector, VGA port, USB port |
| **Data Bus** | 16-bit ISA/32-bit PCI |




| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| Keylock connector | P2 | Reset switch | P10 |
| Floppy drive interface | P3 | IDE interface 1 | P11 |
| Keyboard header | P4A | IDE interface 2 | P11A |
| Speaker | P5 | IDE interface LED | P12 |
| Multifunction connector | P5A | SCSI interface | P13 |
| Serial port 1 | P6 | VGA port | P15 |
| Serial port 2 | P7 | RJ-45 UTP connector | P16 |
| Parallel port | P8 | USB connector | P17 |

| | | | |
|---|---|---|---|
| PS/2 mouse interface | P9 | System hardware monitor connector | P18 |
| PS/2 mouse interface | P9A | CPU fan power | P19 |
| Note: Pentium II CPU is flush-mounted | | | |

| USER CONFIGURABLE SETTINGS | | | |
|---|---|---|---|
| **Function** | | **Label** | **Position** |
| » | Connect speaker data signal to P5A: pin 8 | JU7 | Closed |
| | Disconnect speaker data signal to P5A: pin 8 | JU7 | Open |
| » | Normal operation: password retained | JU8 | Open |
| | Password reset to null password during power-up | JU8 | Closed |
| » | Color monitor | JU9 | Pins 2 & 3 closed |
| | Monochrome monitor | JU9 | Pins 1 & 2 closed |
| » | Normal operation | JU12 | Open |
| | Clear CMOS | JU12 | Closed |
| » | SCSI termination enabled | JU13 | Open |
| | SCSI termination disabled | JU13 | Closed |
| » | 3.3v monitoring from backplane disabled | JU15 | Open |
| | 3.3v monitoring from backplane enabled | JU15 | Closed |
| » | Watchdog timer disabled | JU16 | Pins 1 & 2 closed |
| | Watchdog timer enabled | JU16 | Pins 2 & 3 closed |
| » | IRQ12 dedicated to PS/2 mouse | JU17 | Closed |
| | IRQ12 available for system use | JU17 | Open |
| » | Connect reset data signal to P5A: pin 1 | JU18 | Closed |
| | Disconnect reset data signal to P5A: pin 1 | JU18 | Open |

**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) 1M x 64 | (1) 2M 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 |

| DIMM CONFIGURATION (CON'T) | | |
|---|---|---|
| **Size** | **Bank 0** | **Bank 1** |
| 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) 8M x 64 | (1) 8M x 64 |
| 128MB | (1) 16M x 64 | None |
| 136MB | (1) 16M x 64 | (1) 1M x 64 |
| 164MB | (1) 16M x 64 | (1) 1M x 64 |
| 144MB | (1) 16M x 64 | (1) 2M x 64 |
| 144MB | (1) 2M x 64 | (1) 16M 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 |
| 256MB | (1) 32M x 64 | None |

| | | |
|---|---|---|
| 264MB | (1) 32M x 64 | (1) 1M x 64 |
| 272MB | (1) 32M x 64 | (1) 2M x 64 |
| 288MB | (1) 32M x 64 | (1) 4M x 64 |
| 320MB | (1) 32M x 64 | (1) 8M x 64 |
| 384MB | (1) 32M x 64 | (1) 16M x 64 |
| 512MB | (1) 32M x 64 | (1) 32M x 64 |
| Note: Board accepts EDO & SDRAM memory. Maximum SDRAM is 256MB. Maximum EDO is 512MB. | | |

| CACHE CONFIGURATION |
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| Note: 256KB/512KB cache is located on the Pentium II CPU. |

| VIDEO MEMORY CONFIGURATION |
|---|
| Note: Video memory location and configuration is unidentifed |

| CPU SPEED SELECTION | | | | | |
|---|---|---|---|---|---|
| **CPU speed** | **Clock speed** | **Multiplier** | **W3** | **W5** | **W6** |
| 233MHz | 66MHz | 3.5x | Open | Closed | Open |
| 266MHz | 66MHz | 4x | Closed | Open | Closed |
| 300MHz | 66MHz | 4.5x | Open | Open | Closed |
| 333MHz | 66MHz | 5x | Closed | Open | Open |

| FLASH ROM MODES | | | |
|---|---|---|---|
| | **Setting** | **JU10** | **JU11** |
| » | Plug & Play/program main block | Pins 2 & 3 closed | Pins 2 & 3 closed |
| | Write protect | Pins 1 & 2 closed | Pins 2 & 3 closed |
| | Program all | Pins 2 & 3 closed | Pins 1 & 2 closed |

| DIAGNOSTIC LED(S) | | | |
|---|---|---|---|
| **LED** | **Color** | **Status** | **Condition** |
| ACT | Amber | On | Data is being transmitted/received |
| ACT | Amber | Off | Data is not being transmitted/received |
| LNK | Green | On | Network connection is good |
| LNK | Green | Off | Network connection is broken |