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High Reliability Features

- Onboard Watchdog and power monitors
- Onboard thermal monitoring gracefully throttles performance under high temp. conditions
- Error checking and correcting (ECC) memory option.
- Flexible FSB speed (factory tailored to OEM application requirements)
- Environmental, -40°C to +85°C (-55°C to +125°C option)
- Extreme survivability, 1000+G Shock & Nuclear Event_dt

High Integration Features

- 10/100BaseT or 10/100/1000BaseT (Gigabit) Ethernet with on-chip RAM buffers, and on-board Filters, EEPROM and Link LED.
- 2 to 32MB Flash supports Megatel BIOS and solid state disk
- Compact Flash Storage compatible socket
- Frame-grabber with up to four channels of analog video input
- Touch Screen Controller with additional A/D inputs and temperature sensor
- Controller Area Network (CAN) controller

Specifications

Hi-Rel, Low Power Pentium Class SBC

The PCpi board is a rugged full-featured PENTIUM class SBC that has been engineered with available leading edge components and software. This board supports available low-power socket 7 processors, and utilizes a chipset which provides both ISA and local PCI bus. It is PC/104 compliant and megatel 104Family I/O compliant. This board is available with a broad range of options that can be mixed in any combination to maximize performance and minimize cost. On-board options include your choice of processor, Super VGA & LCD output, video frame-grabber, touch screen controller, 10/100 or GigaBit Ethernet, Compact Flash socket, 2 to 32 MB solid state (flash) disk, CAN bus controller, 32 to 256 MB of soldered-down high-speed SDRAM, ECC memory option. Many other options and base features are packed into this tiny board, all of which are combined into a small rugged package that is powered from either dual (3.3V and 5V) supplies to minimize on-board power dissipation or a 5V only option.

Base Features

- Low Power Socket 7 Processor up to 266MHz
- 32 to 256MB SDRAM (soldered)
- Asilient (Chips & Tech) Advanced 690x0 CRT and Flat Panel PCI Display Controller, up to 4 MB of fast on-chip Video DRAM
- ATA/IDE UDMA 66 Hard drive interface
- Three USB 2.0 (full speed) port
- Three 16C550 RS232 serial ports supporting up to 230K baud, one port may be RS485
- Parallel Port ECP/EPP (1284 style)
- PS/2 keyboard and mouse
- Floppy Interface, Real Time Clock, and all other basic AT peripherals
- 16-bit or 8-bit PC/104 Bus
- 180-Pin Mass I/O interface uses 2mm Hard Metric IEC Connector System
- 4W to 6W typical power consumption, depending on configured options.

