

CPCI-720

Technical Brief

CPCI-720, Pentium based CompactPCI CPU board

CompactPCI, Windows NT computer with easy maintenance features

For OEM's focused on competitive markets, Force knows the value of highly integrated products which offer I/O flexibility and scalability. CompactPCI®, Intel® Pentium®, Windows NT and exceptional configuration flexibility of the CPCI-720 help OEM's to market faster with more competitive products. All while lowering product development efforts and maintenance costs.

OEM's can take advantage of the cost benefits associated with the high-volume PC market, get industry-leading performance with Pentium processing and Windows NT, plus offer CompactPCI mechanics for high reliability. The CPCI-720 fulfills the demanding requirements for system maintenance with its "In-rush Current Protection" capability.

Facts & Features

- Intel Embedded Pentium 133, 166 or 200 MHz processor
- EDO DRAM from 16 to 256 MByte with ECC support
- 256 or 512 KByte second-level cache
- User flash from 4 to 60 MByte implemented with on-board flash disk technology
- Two type-II PCMCIA slots or one type-III slot
- 10 BaseT/100 BaseTx Ethernet, E-IDE and USB interfaces
- Complete, standard workstation I/O (keyboard, mouse, serial, parallel ports)
- Two PMC slots, SVGA and Fast/Wide SCSI through optional I/O-720
- Hot plug capability enables removal from or installation in a live system
- Universal board design allows operation in 3.3 V or 5 V CompactPCI systems
- Optional integrated hard disk and floppy drives provide complete "computer-on-a-board"
- Scalable user flash, second-level cache and memory enable compatibility with application requirements
- Optional support for up to 14 CompactPCI slots for complete system integration flexibility
- 100% compatible with Windows NT

Leading Edge Technology

The CPCI-720 offers the latest embedded computing technology-CompactPCI, Intel Pentium and Microsoft Windows NT. This combination gives applications high performance and increased reliability and

functionality.

Intel Pentium is the most widely used microprocessor today. Running at 200 MHz, it gives compute-intensive applications the high performance edge they require. And for high-speed data communications, CompactPCI bandwidth, rated at 132 MBytes/second, is ideal. Windows NT provides access to a robust and reliable 32-bit true multi-tasking operating system with the same look and feel as Windows 95. Your existing applications are easily ported and you'll have an open path for future upgrades.

Design for Easy Maintenance

The CPCI-720 illustrates the advantages that an off-the-shelf, rugged CPU offers. CompactPCI mechanics are superior to those of embedded PCs. In-Rush Current Protection allows insertion or removal safely from a powered-up system and the Eurocard mechanics withstand shock and vibration where PCI or ISA cards fail. On-board floppy and HDD mountings provide for a completely self-contained and serviceable computer module. Front loading and removal of this board from systems provides for easy access for maintenance and upgrades. And it's superior for environments where temperature fluctuations are prevalent.

Advanced Systems Integration Options

To keep pace with the stringent demands in the systems business, the CPCI-720 is designed with many options. The CPCI-720 scales from the entry-level to the top-of-the-line embedded Pentium processor. The User Flash, second level cache, memory and I/O functions are all scalable to the application requirements.

The CPCI-720 also offers unique companion products that vastly enhance system configurations. The I/O-720 companion board supports two on-board PMC slots, SVGA graphics and Fast/Wide SCSI. The board also contains a PCI bridge which supports additional expansion of up to seven CompactPCI slots, for a system total of 14.

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