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cPCI-6770 Series

6U CompactPCI Single Slot Low Power Pentium-III CPU Module with PMC, VGA, 2 COM port, LAN, CompactFlash and No Rear I/O

Introduction

cPCI-6770 is a high performance 6U CompactPCI CPU module powered by Intel Lower Power Pentium III CPU. Due to its compact design the cPCI-6770 uses only one CompactPCI slot. While all the I/O connectors are built on the front panel, no real I/O transition board is needed. In addition, the on-board PMC socket provides flexible function expansion. The PCI bridges design allows cPCI-6770 to drive up to 7 peripherals in one system. cPCI-6770 offers standard I/Os including 2 COM port (1 RS-232, 1 RS-232/422/485), USB, Printer Port, AGP-VGA, EIDE, Ethernets and removable CompactFlash socket. cPCI-6770 is designed to meet the needs of the applications which require low power consumption, high performance and small foot print. Typical applications include the semiconductor equipment, electrical assembly machines, CTI server, military and medical industries.



cPCI-6770

Features

- PICMG 2.0 CompactPCI Specification R2.1 Compliant
- Standard 6U form factor, 1-slot (4TE/HP) width
- Design for low power BGA2 Pentium-III 700MHz CPU running at FSB 100MHz
- Two 144-pin SO-DIMM socket supports up to 512MB PC-100 SD-RAM with optional ECC support
- Build-in housing for 2.5” low profile HDD
- Supports one USB port, 2 serial port, 1 par allel port
- Supports 7 bus-master PCI devices on CompactPCI bus peripheral slots
- On-board high performance AGP 2x VGA display output by ATI Mobility M6 controller
- Supports up to 10/100MB Ethernet ports
- Supports Intel pre-boot execution environ ment (PXE) for remote boot
- Supports CompactFlash type-II socket via removable daughter board
- WDT status indication
- Hot-swap status indication

Specifications

General CompactPCI Features

- PCI Rev.2.1 compliant
- PICMG 2.0 CompactPCI Rev. 2.1 compliant

Form Factor

- Standard 6U CompactPCI (board size: 233mm x 160mm)
- 1 slot (4TE/HP, 20.32mm) wide, incl. housing of 2.5” HDD

CPU/Cache

- Intel BGA2 Low Power Pentium III with 256KB on-die L2 cache @ 700MHz speed & 100MHz FSB
- Chipset Intel 440BX AGPset
- Intel 82443BX and 82371EB (PIIX4E)

BIOS : Award PnP BIOS

- BIOS write protection, provide anti-virus capability
- On-board Ethernet, hardware monitoring function disable selectable
- Customized power-on screen (for OEM project)
- DMI BIOS Support: Desktop Management Interface (DMI) allows users to download system hardware-level information such as CPU type, CPU speed, internal & external frequencies and memory size
- Green Function: Power management via BIOS, activated through mouse/keyboard movement
- Remote Console: setup console redirection to serial port (terminal mode) with CMOS setup access

Host Memory

- Two 144-pin SO-DIMM sockets, Max. 512MB PC-100 un-buffer SDRAM
- Optional ECC support (for big quantity OEM project)

IDE Ports

- Bus Master IDE controller supports two EIDE interfaces including HDD and CDROM
- Two 44-pin secondary EIDE connector on front CPU module, supports on-board 2.5” notebook size HDD or Flash2000™ flash disk
- One CompactFlash type-II socket on removable daughter board for front CPU module

On Board Super I/O

- Winbond W83977EF
- Supports high-speed bi-directional SPP /EPP/ECP parallel ports with ESD protec tion to 4KV and downstream device protection to 30V
- One 34-pin floppy connector is available on rear I/O transition module
- One 16C550 UARTs compatible RS-232 COM1 ports with ESD protection to 2KV on front CPU module
- One RS-232/422/485 selectable COM2 serial ports

USB Interface

- Supports one USB port
- USB Specification Rev. 1.1. compliant
- Individual over-current protection

Watch-dog Timer

- Programmable I/O port 3F0h and 3F1h to configure watchdog timer, programmable timer 1~255 seconds or 1~255 minutes
- A LED indicator on front faceplate for watchdog timer status indication
- Bundled easy-programming library for DOS, Windows 95, 98, NT

Hardware Monitoring

- Winbond W83782D, monitoring CPU tem perature, system temperature and DC Voltages

PMC module support

- On-board one 32-bit PMC module socket for functionality expansion

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On-board VGA/LCD Display

- AGP 2x VGA/LCD controller ATI Mobility M6, with build-in 8M VRAM (16M VRAM available for big quantity OEM project)
- VGA display on front panel
- High performance, 128-bit, single clock cycle 2D drawing engine
- High performance, power managed 3D acceleration engine
- AGP 2x, ACPI, VESA DPMS and VESA DDC 2b compliant
- Supports up to 1600x1200 VGA display resolution with 24-bit high color at 60Hz refresh rate under Windows NT
- RAMDAC Latch-up protection
- Driver supporting: Windows 95 / 98 / ME / NT / 2000, Linux, OS/2

On-board Ethernet supporting

- Ethernet ports featuring by one Intel 82559 Ethernet controller
- IEEE 802.3 10Base-T and 100Base-TX compatible
- IEEE 802.3µ Auto-negotiation support
- IEEE 802.3x 100Base-TX flow control sup port
- Full duplex support at both 10 and 100 Mbps operation

OS Compatibility

- MS-DOS 6.2+, Windows 95/98/ME, Windows NT 4.0, Windows 2000

Flash Disk Supporting

- Support CompactFlash type-II socket on front CPU module by removable transition daughter board
- On-board housing for Flash2000™ 2.5" flash disk on front CPU module

PCI Bus Bridge

- TI PCI2050 transparent PCI to PCI bridge
- Supports up to 7 PCI bus mastering devices on CompactPCI bus peripheral slots

Front Panel LEDs and switch

- Power status (green)
- IDE activity indicator (red)
- Ethernet port 1&2: 10/100Mb (amber), activity (Green)
- Watchdog timer status indicator (green)

Environment

- Operating temperature: 0 to 60°C
- Storage temperature: -20 to 80°C
- Humidity: 5% to 95% non-condensed
- Shock: 15G peak-to-peak, 11ms duration, non-operation
- Vibration
  - Non-operation: 1.88Grms, 5-500Hz, each axis
  - Operation: 0.5Grms, 5-500Hz, each axis, with 2.5" HDD

Safety Certificate and Test

- CE, FCC
- HALT (temperature and vibration stress)

Peripheral Connectivity

I/O	*Front*	
	Faceplate	*Board*
Serial Port (COM1)	Y (DB-9)	---
Serial Port (COM2, RS-232/422/485)	Y (RJ-45)	---
Parallel Port	---	Y(P/H)
PS/2 Keyboard and Mouse (Combined)	Y	---
Floppy	---	Y
Ultra DMA 33 Primary EIDE	---	Y
Ultra DMA 33 Secondary EIDE	---	Y (44-pin)
USB A	Y	---
USB B	---	---
Speaker	---	Buzzer
10/100Mb Ethernet Port 1 (front)	Y (RJ-45)	---
VGA	Y (DB-15)	---
LEDs	Y	---
Reset button	Y	---
Remark: P/H: Pin Headers	---	---

Ordering information

cPCI-6770

6U CompactPCI Single Slot Low Power Pentium-III CPU Module with PMC, VGA, 2 COM port, LAN, CompactFlash and No Rear I/O.

cPCI-6770F

6U CompactPCI Two Slot Low Power Pentium-III CPU Module with PMC, VGA, 2 COM port, LAN, CompactFlash , printer port , on board Floppy and No Rear I/O.

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