cPCI-6770

6U CompactPCI Low Power Pentium® III SBC



Features

- *Design for low power BGA2 Pentium III CPU running at FSB 100MHz*
- *Two 144-pin SODIMM sockets support up to 512MB SDRAM*
- *Built-in housing for 2.5" low profile HDD*
- *On-board high performance AGP VGA output via ATI Mobility Radeon M6 controller*
- *All-in-one front access I/O ports, including LAN, COM and USB*
- *One PMC site for expanding functions*

Ordering Information

cPCI-6770/P8	6U cPCI Low Power Pentium III-850 Host CPU Module
DB-6760CF	Removable CompactFlash Type-II Socket Adaptor for cPCI-6760D/6770

Note: RAM and HDD are not included in the above models. Please contact us for more integrated options.

Peripheral Connectivity

I/O	cPCI-6770	
	Faceplate	Board
Serial Port (COM1)	Y (DB-9)	---
Serial Port (COM2)	Y (RJ-45)	---
Parallel Port	---	Y (26-pin)
PS/2 Keyboard & Mouse	Y	---
Floppy	---	Y (FL-26)
Ultra DMA 33 IDE 1	---	Y (44-pin)
USB A	Y	---
10/100Mbps Ethernet Port	Y (RJ-45)	---
VGA	Y (DB-15)	---
LEDs	Y	---
Reset button	Y	---

Specifications

CPU / Chipset / RAM

CPU	Intel BGA2 mobile Pentium-III up to 850MHz with 256K on-die L2 cache
FSB	100MHz
Chipset	Intel 440BX
RAM	Two 144-pin SO-DIMM sockets, up to 512MB SDRAM

Bus

Standards	PICMG 2.0 R3.0
CompactPCI Bus	32-bit/33MHz, support 7 bus-mastering devices, TI PCI2050 PCI to PCI bridge

BIOS

Chip	Award 2Mb flash memory
Features	Intel PXE pre-boot on Ethernet

I/O Interfaces

Display	ATI Mobility Radeon M6 with 8MB VRAM
Ethernet	Single 10/100Mbps Ethernet Port by Intel 82559
IDE	UDMA-33, dual channels, built-in 2.5" ATA HDD housing
Floppy	Standard 34-pin connector and one slim type FDD connector
USB	USB 1.1, single port
Front Panel I/Os	COM1 (RS-232, DB-9), COM2 (RS-232/422/485, RJ-45), PS2 KB+MS (combo), USB, LAN, VGA, PMC
Connectors	FDD (34-pin & slim type), IDE1 & IDE2 (44-pin), LPT (26-pin)

Other Features

Hardware Monitoring	Monitoring CPU temperature, FAN speed, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate system reset.
Support Operating Systems	Compatible with Microsoft Windows 98SE, Windows NT, Windows 2000, Red Hat 7.1, 7.2, SCO UNIX 5.0.5, Novell 5.0, QNX 4.24, MontaVista Linux Carrier Grade Edition, and VxWorks 5.5 (The device drivers for Windows are included on the ADLINK CD. For VxWorks BSP or MontaVista LSP, please contact ADLINK.)

Mechanical and Environmental

Form Factor	6U CompactPCI
Dimensions	233mm x 160mm (L x W), 1 slot (4HP) wide
Operating Temp.	0 to 55˚C (inside-chassis temp, CPU type dependant; external air-flow required)
Storage Temp.	-20 to 80˚C
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
Measured Power Consumption	Low Power Pentium III-700 & 128MB RAM: 3.2A @ +5V, 5.76A @ +3.3V, 228mA @ +12V (w/o HDD) Mobile Pentium III-850 & 512MB RAM: 5.8A @ +5V, 5.92A @ +3.3V, 228mA @ +12V (w/o HDD)
Compliance	CE, FCC Class A

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