cPCI-6760D Series

6U CompactPCI Low Power Pentium® III Host SBC with Dual PCI Buses



Features

- *PICMG 2.7 CompactPCI Dual System Buses Compliant*
- *Supports 14 bus-master PCI devices on CompactPCI bus by PICMG 2.7 architecture*
- *Designed for low power Pentium-III CPU running at FSB 100MHz*
- *Two 144-pin SO-DIMM sockets support up to 512MB SDRAM*
- *Built-in housing for 2.5" low profile HDD*
- *On-board one single size 32-bit PMC module slot*
- *Up to four 10/100Mbps Ethernet ports with cPCI-R6760S*
- *Ultra-160 SCSI interface with cPCI-R6760S*

Ordering Information

cPCI-6760D/P8	6U cPCI Single Slot Low Power Pentium III-850 System Host CPU Module with VGA, Dual LAN, PMC Slot and DB-6760CF
cPCI-R6760D	Standard Rear I/O Transition Module for cPCI-6760D
cPCI-R6760S	Superior Rear I/O Transition Module for cPCI-6760D with Ultra-160 SCSI and Additional Dual LAN
DB-6760CF	Removable CompactFlash Type-II Socket Adaptor for cPCI-6760D

Note 1: Front CPU modules and rear I/O transition modules are sold separately.
Note 2: CPU is soldered, RAM or and HDD are not included.

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 with optional on-board ECC support

Bus

CompactPCI Standards	PICMG 2.0 R3.0, PICMG 2.1 Hot Swap R2.0, PICMG 2.7 Dual System Slot R1.0
CompactPCI Bus	32-bit/33MHz, support 14 bus-mastering devices, Dual TI PCI2050 PCI to PCI bridge

BIOS

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

I/O Interfaces

Display	SMI-721 AGP-2X VGA with 4MB VRAM
Ethernet	10/100Mbps Ethernet by Intel 82559: dual ports on front board and additional dual ports on cPCI-R6760S rear board
IDE	UDMA-33, dual channels, built-in 2.5" ATA HDD housing on front board
Floppy	Standard 34-pin connector on RTM
USB	USB 1.1, 2 ports (1 for front, 1 for rear)
SCSI	LSI 53C1000R, External Ultra-160 SCSI with LVD (cPCI-R6760S)
Front Panel I/Os	COM1 (RS-232), PS2 KB+MS (combo), USB, LAN1, LAN2, VGA, PMC
Backplane I/O (rear I/O)	J3: COM1, LPT, KB, MS, FDD, IDE1, LAN1, LAN2, Buzzer J4/J5: cPCI Bus B (PICMG 2.7), J5: COM2, IDE2, USB, VGA

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 NT 4.0, Windows 2000, Windows 98, Windows 98 SE, Red Hat 7.2, QNX, Novell, 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	233.33mm x 160mm (L x W), 1 slot (4HP) wide
Operating Temp.	0 to 60˚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	5.88A @ +5V, 3.76A @ +3.3V, 270mA @ +12V, 120mA @ -12V, installed with Pentium III 1GHz CPU and 512MB RAM, without HDD
Compliance	CE, FCC Class A, HALT

Rear I/O Transition Modules

Model Number	Faceplate I/O	On-board I/O
cPCI-R6760D	COM2 (RS-232/422/485), LPT, KB, MS, USB, VGA, LAN1, LAN2	COM1 (10-pin), FDD (34-pin), IDE1 & IDE2 (40-pin), Buzzer
cPCI-R6760S	COM2 (RS-232/422/485), KB & MS, USB, LAN1-4, SCSI	COM1 & COM2 (10-pin), LPT (26-pin), FDD (34-pin), IDE1 & IDE2 (40-pin), Buzzer, VGA (15-pin) (external 68-pin)

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