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cPCI-6760D series

Fully Integrated Dual Bridge 6U CompactPCI Single Slot Low Power Pentium-III System Host CPU Module



cPCI-6760D

Highly integration design makes cPCI-6760D provides fully functionality within only single slot space. User can access plenty I/Os with Dual Ethernet ports and one PMC expansion slot on the front panel. The cPCI-R6760S superior rear I/O transition module (RTM) extends the functionality with Ultra-160 SCSI and quad-LAN, makes it as the single slot system host with maximum I/O connectivity.

Features

- PICMG 2.7 CompactPCI Dual System Slot Compliant
- Standard 6U form factor, 1-slot (4HP) wide
- Design for low power Pentium-III CPU running at FSB 100MHz
- Two 144-pin SO-DIMM sockets support up to 512MB SDRAM with optional ECC support
- Build-in housing for 2.5" low profile HDD
- Supports 14 bus-master PCI devices on CompactPCI bus by PICMG 2.7 architecture
- On-board one single size 32-bit PMC module slot
- Up to four 10/100Mb Ethernet ports with cPCI-R6760S
- External Ultra-160 SCSI interface with cPCI-R6760S
- Supports CompactFlash type-II socket via removable daughter board
- Supports self-hot-swap operation by soft triggering system power off
- WDT status indication
- Self-hot-swap status indication

Specifications

CompactPCI Standards	PICMG 2.0 R3.0; PICMG 2.1 Hot Swap R2.0; PICMG 2.7 Dual System Slot R1.0
Form Factor	6U cPCI (233.33x160mm), 1 slots (4HP) wide
CPU/Cache	Intel BGA2 mobile Pentium-III up to 850MHz with 256K on-die L2 cache
Front Side Bus Speed	100MHz
Chipset	440BX
BIOS	Award 2Mb flash memory
RAM	Two 144-pin SO-DIMM sockets, up to 512MB SDRAM with optional on-board ECC support
cPCI Bus Interface	32-bit/33MHz, support 14 bus-mastering devices, Dual TI PCI2050 PCI to PCI bridge
VGA	SMI-721 AGP-2X VGA with 4MB VRAM
LAN	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
Flash Disk	Flash2000 2.5" flash drive or CF Card by removable adaptor
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 (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
Rear I/O Module Options	cPCI-R6760D; cPCI-R6760S
Watchdog Timer	1~255 sec or 1~255 min software programmable, can generate system reset
Other Features	Intel PXE pre-boot on Ethernet Remote Console On-board LAN, H/W Monitor disable
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 P-III-700 & 256MB RAM: 3.8A @ +5V; 4.5A @ +3.3V; 228mA @ +12V (w/o HDD) Mobile P-III-850 & 512MB RAM with cPCI-R6760S: 6.4A @ +5V; 4.5A @ +3.3V; 228mA @ +12V (w/o HDD)
Certificate or Test	CE; FCC class B; HALT

Rear I/O Transition Modules

Model number	Board Depth	Faceplate I/O	On-board I/O
cPCI-R6760D	80 mm	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	80 mm	COM2 (RS-232/422/485), KB&MS, USB, LAN1~4, SCSI (external 68-pin)	COM1 & COM2 (10-pin), LPT (26-pin), FDD (34-pin), IDE1 & IDE2 (40-pin), Buzzer, VGA (15-pin

Ordering Information

Model number	Description/Configuration
cPCI-6760D/P7	6U cPCI Single Slot Low Power P-III-700 System Host CPU Module with VGA, Dual LAN, PMC Slot and DB-6760CF
cPCI-6760D/P8	6U cPCI Single Slot Low Power P-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 HDD are not included

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