cPCI-3720 Series

3U CompactPCI Low Power Pentium® III/Celeron® CPU Module



cPCI-3720A/C42
Celeron Version

cPCI-3720A/P82
Pentium-III Version

cPCI-3720B
Dual-slot Version

Fanless

PICMG 2.1

Features

- *Passive heat-sink design with low power BGA2 Pentium III or Celeron CPU*
- *Single slot wide base board with CF socket*
- *One 144-pin SO-DIMM socket, up to 256MB RAM*
- *Dual 10/100Mbps Ethernet ports by Intel 82559 controller*
- *USB x 2, COM x 2, LPT x 1, PS/2 x 1, IDE x 1*
- *Rear I/O supports LAN, COM, USB, LPT, and KB/MS*
- *Dual slot extension for 2.5" HDD housing and floppy connection*

Ordering Information

cPCI-3720A/P82	Low Power Pentium III 850MHz 3U cPCI SBC with active heat-sink, 1-slot width
cPCI-3720A/C42	Low Power Celeron 400MHz 3U cPCI SBC with passive heat-sink, 1-slot width
cPCI-3720B/P82	Low Power Pentium III 850MHz 3U cPCI SBC with active heat-sink, 2-slot width
cPCI-3720B/C42	Low Power Celeron 400MHz 3U cPCI SBC with passive heat-sink, 2-slot width
FDD-3720	Slim type FDD expansion kit for cPCI-3720B series
cPCI-R3720	Rear I/O transition module for cPCI-3720

Note 1: Front board and rear I/O board are sold separately.
2: All the above models are not equipped with RAM, HDD and FDD.

Rear I/O Transition Modules

Model number	Board Depth	Faceplate I/O	On-board I/O
cPCI-R3720	50mm	COM1, KB/MS, LAN2, USB2	LPT, COM2

Specifications

CPU / Chipset / RAM

CPU	Intel BGA2 mobile Pentium III 700/850MHz with 256K on-die L2 cache or mobile Celeron 400MHz with 128K on-die L2 cache
FSB	100MHz
Chipset	Intel 440MX
RAM	One 144-pin SO-DIMM socket, up to 256MB SDRAM

Bus

Standards	PICMG 2.0 R3.0, PICMG 2.1 Hot Swap R2.0
CompactPCI Bus	32-bit/33MHz, supports 7 bus-mastering devices PCI to PCI bridge: TI PCI2050

BIOS

Chip	Award 2Mb flash memory
Features	Remote Console

I/O Interfaces

Ethernet	Dual 10/100Mbps Ethernet ports by Intel 82559, RJ-45 connector
IDE	UDMA-33, single channel, with CF socket and 44-pin connector, built-in 2.5" ATA HDD housing in 2-slot version
Floppy	Standard 34-pin connector on front panel in 2-slot version, optional add-on slim type floppy module
USB	USB 1.1, one on front panel, one via rear I/O
Front Panel I/Os	PS2 KB & MS, LAN1, LAN2, USB1, COM2 (RJ-45)
Backplane I/O (rear I/O)	COM1 (RS-232/422/485), COM2, LPT, LAN2, KB, MS, USB2

Other Features

Hardware Monitoring	Monitors CPU temperature, fan speed, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, generates system reset
	Watchdog timer status LED
Other Features	Self-hot-swap support
Support Operating Systems	Compatible with Microsoft Windows 98SE, Windows ME, Windows XP, Windows NT, Windows 2000, Red Hat 7.1, 7.2, Novell, QNX, SCO UNIX, MontaVista Linux Carrier Grade Edition, and VxWorks 5.5 (The device drivers for Windows are included on the ADLINK CD. For VxWorks BSP, please contact ADLINK.)

Mechanical and Environmental

Form Factor	3U CompactPCI
Dimensions	100mm x 160mm (L x W), 1 or 2 slots wide
Operating Temp.	0 to 50˚C (internal chassis temp, 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
Measured Power Consumption	2.8A @ +5V, 2.5A @ +3.3V, 150mA @ +12V (peak value), installed with LP Pentium III 700MHz CPU, 256MB RAM, 2.5" ATA HDD, and cPCI-8217
Compliance	CE, FCC Class A, HALT

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