

cPCI-3720 Series

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



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 support 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/P72	Low Power Pentium III 700MHz 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/P72	Low Power Pentium III 700MHz 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 model numbers 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, support 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 for 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	Monitoring CPU temperature, FAN speed, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable. Generate NMI or system reset. Watchdog timer status LED
Other Features	Self-hot-swap support

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 (inside-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
Certificate or Test	CE, FCC class A, HALT

All specifications are subject to change without further notice.