

cPCI-3720 series

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



cPCI-3720

... The cPCI-3720 is a low power, high integration 3U cPCI system host CPU module. Its single slot base-board design makes it possible to be an entry-level 3U compute blade or the PC-based controller for higher performance requirement of military, traffic control and mission critical industrial automation applications.

Features

- Passive heat-sink design with low power BGA2 P-III or Celeron CPU
- Single slot wide base board with CF socket
- One 144-pin SO-DIMM socket, up to 256MB RAM
- Dual 10/100Mb Ethernet ports by Intel 82559 controller
- USB x2, COMx2, LPTx1, PS/2x1, IDEx1
- Rear I/O support LAN, COM, USB, LPT and KB/MS
- Remote Console
- Dual slot extension for 2.5" HDD housing and floppy connection

Specifications

CompactPCI Standards	PICMG 2.0 R3.0; PICMG 2.1 Hot Swap R2.0
Form Factor	3U cPCI (100x160mm), 1 or 2 slots wide
CPU/Cache	Intel BGA2 mobile Pentium-III 700/850MHz with 256K on-die L2 cache or mobile Celeron 400MHz with 128K on-die L2 cache
Front Side Bus Speed	100MHz for P-III; 66MHz for Celeron
Chipset	Intel 440MX
BIOS	Award 2Mb flash memory
RAM	One 144-pin SO-DIMM socket, up to 256MB SDRAM
cPCI Bus Interface	32-bit/33MHz, support 7 bus-mastering devices PCI to PCI bridge: TI PCI2050
VGA	None
LAN	Daul 10/100Mbps Ethernet ports by Intel 82559, RJ-45 connector
IDE	UDMA-33, single channel, 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
Flash Disk	Built-in CompactFlash socket in 1-slot version; can use 2.5" Flash Drive in 2-slot version

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 (rear) I/O	COM1 (RS-232/422/485), COM2, LPT, LAN2, KB, MS, USB2
Rear I/O Module Options	cPCI-R3720
Watchdog Timer	1~255 sec or 1~255 min software programmable, can generate system reset
Other Features	Remote Console Watchdog timer status LED Self-hot-swap support
Operating Temp.	0 to 55°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, with 2.5" HDD
Measured Power	2.8A @ +5V; 2.5A @ +3.3V; 150mA @ +12V (peak value);
Consumption	installed with LP P-III 700MHz CPU, 256MB RAM, 2.5" ATA HDD and cPCI-8217
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-R3720	50 mm	COM1, KB/MS, LAN2,USB2	LPT, COM2
Reserved	80 mm	reserved	reserved

Ordering Information

Model number	Description/Configuration
cPCI-3720A/P72	3U cPCI CPU Module with Low Power Pentim III-700, Dual LAN, 1-slot version w/o RAM, w/o HDD/FDD support
cPCI-3720A/C42	3U cPCI CPU Module with Low Power Celeron-400, Dual LAN, 1-slot version w/o RAM, w/o HDD/FDD support
cPCI-3720B/P72	3U cPCI CPU Module with Low Power Pentim III-700, Dual LAN, 2-slot version w/o RAM, HDD, w/o FDD support
cPCI-3720B/C42	3U cPCI CPU Module with Low Power Celeron-400, Dual LAN, 2-slot version w/o RAM, HDD, w/o FDD support
cPCI-3720A/P82	1-slot version,Low Power Pentium III-850MHz with active heat-sink,Dual Ethernet
cPCI-3720B/P82	2-slot version,Low Power Pentium III-850MHz with active heat-sink,Dual Ethernet
FDD-3720	Slim type floppy expansion kit for cPCI-3720B series

Note: Front board and rear I/O board are sold separately.

CompactPCI Solutions