

# cPCI-3700A Series

3U CompactPCI Pentium® III/Celeron® CPU Module with VGA, LCD, Ethernet



The cPCI-3700A is an all-in-one high performance, general purpose 3U CompactPCI system host CPU module. It is the ideal choice to build up a computer platform or an embedded controller for military, HMI, traffic control, and mission critical industrial automation applications.

## Features

- Supports up to FC-PGA Pentium III CPU at 850MHz
- One 144-pin SO-DIMM socket supports up to 256MB RAM with optional ECC support
- Built-in housing for 2.5" ATA-HDD or Flash Drive
- Built-in two USB ports, two serial ports, one parallel port
- AGP 2x VGA/LCD display output by SMI SM721 controller with 4MB VRAM
- On-board 10/100Mb Ethernet port by Intel 82559 controller
- Supports Intel pre-boot execution environment (PXE) for remote boot
- 3 or 2 slots width configurations are available for customized applications

## Ordering Information

cPCI-3700A/P850/M64/H40G	3-slot version, Pentium III/850, 64MB RAM, 40GB HDD, Slim FDD, cPCI-R3700A
cPCI-3700A/P850/M256/H40G	3-slot version, Pentium III/850, 256MB RAM, 40GB HDD, Slim FDD, cPCI-R3700A
cPCI-3700A-2S/P850/M128/H40G	2-slot version, Pentium III/850, 128MB RAM, 40GB HDD, cPCI-R3700A
cPCI-3700A-2S/P850/M256/H40G	2-slot version, Pentium III/850, 256MB RAM, 40GB HDD, cPCI-R3700A
cPCI-R3700A	Rear transition module for cPCI-3700A

Note: 2 slot version is shipped without FDD.

## Rear I/O Transition Modules

Model Number	Board Depth	Panel with Extractor	Faceplate I/O	On-board I/O
cPCI-R3700A	50mm	Yes	COM2 (DB-9)	LCD, COM2

## Specifications

### CPU / Chipset / RAM

CPU	Intel SKT-370 FC-PGA Pentium III (up to 850MHz) with 256K on-die L2 cache or Celeron (up to 733MHz) with 128K on-die L2 cache
FSB	100MHz
Chipset	Intel 440BX
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

### BIOS

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

### I/O Interfaces

Display	SMI-721 AGP-2X VGA/LCD with 4MB VRAM
Ethernet	Single 10/100Mbps Ethernet by Intel 82559, RJ-45 connector
IDE	UDMA-33, dual channels, 44-pin connector, built-in 2.5" ATA HDD housing
Floppy	Built-in slim type floppy module (3-slot version only)
USB	USB 1.1, dual ports on front panel
Front Panel I/Os	PS2 KB, PS2 MS, VGA, LAN, USB x 2, LPT (mini port), COM1 (RS-232)
Backplane I/O (rear I/O)	COM2 (J2: RS-232/422/485), LCD (18/24-bit TFT)

### 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.

### Mechanical and Environmental

Form Factor	3U CompactPCI
Dimensions	100mm x 160mm (L x W), 2 or 3 slots wide
Operating Temp.	0 to 60°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	5.7A @ +5V, 3.6A @ +3.3V, 150mA @ +12V, installed with Pentium III 850MHz CPU and 256MB RAM, without HDD
Certificate or Test	CE, FCC class A, HALT

### Accessories

Flash Storage	Flash2000 2.5" flash drive support, DOC up 144MB support
RTM	cPCI-R3700A