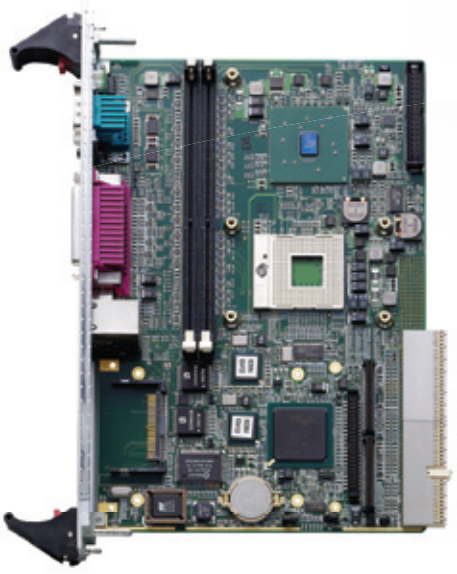
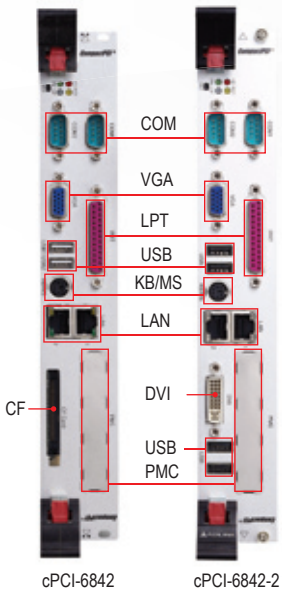
cPCI-6842 Series

6U CompactPCI® Dual-Slot Intel® Pentium® M Processor Host SBC





cPCI-6842 cPCI-6842-2

Features

- Standard 6U form factor with 2-slot (8HP) space
- Supports Intel® Pentium® M and Celeron® M processors
- Up to 2 GB DDR 333 ECC non-registered memory module
- 32-bit/33 MHz CompactPCI® bus
- Dual-10/100/1000Mbps Ethernet ports
- Supports Intel® Pre-boot Execution Environment (PXE) for remote boot

Specifications

Processor System

CPU	µFC-PGA Intel® Pentium® M / Celeron® M processors
	Pentium® M 1.6 GHz, 400 MHz FSB, 1 MB L2 cache
	Pentium® M 1.8 GHz, 400 MHz FSB, 2 MB L2 cache
	Celeron® M 1.3 GHz, 400 MHz FSB, 512 KB L2 cache
Chipset	Intel® 855GME with ICH4
RAM	Two 184-Pin DIMM sockets, up to 2 GB non-registered ECC DDR-333 memory
BIOS	Award® 4 Mb flash memory
CompactPCI Bus	Ti-2050 32-bit/33 MHz PCI™ to PCI-bus bridge
PICMG standard	PICMG® 2.0 R3.0

Connectivity

PMC/XMC	Supports one PMC slot, 32-bit/33 MHz
Ethernet	Dual Gigabit Ethernet ports via Intel® 82541 on front panel
Graphics	Integrated in Intel® 855GME
	One Analog VGA port on front panel
	One digital DVI port on front panel (cPCI-6842-2 only)
USB	cPCI-6842: USB 2.0, two ports on front panel
	cPCI-6842-2: USB 2.0, four ports on front panel
PS/2	One PS/2 KB/MS combo port
Serial Port	Two DB-9 COM ports
Printer Port	One front panel printer port
Floppy	Onboard pin-header

Storage

SBC	44-pin IDE connector for 2.5" ATA HDD housing
	Hotswappable CompactFlash slot on front panel (cPCI-6842 only)

Operating System

OS	Microsoft® Windows® 2000
	Microsoft® Windows® XP
	Microsoft® NT4.0 Server
	Microsoft® Server 2003
	Microsoft® Windows® XP embeded
	Red Hat® Linux® 9.0
	Fedora™ Core 3

Miscellaneous

LED	Power, HDD, WDT, General Purpose
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
Hardware Monitor	Monitoring of CPU temperature, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, generates system reset

Mechanical & Environmental

Form Factor	6U 8HP (dual-slot) CompactPCI®
	233.33 mm x 160 mm (L x W)
Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 80°C
Rel. Humidity	90%, non-condensing
Shock	15G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis

Safety & EMI

Certifications	CE, FCC Class A

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I/O Table

	cPCI-6842		cPCI-6842-2	
Function	**Face-plate**	**Onboard**	**Face-plate**	**Onboard**
COM 1/2	Y (DB-9)		Y (DB-9)	
VGA	Y (DB-15)		Y (DB-15)	
LPT	Y (DB-25)		Y (DB-25)	
PS/2 KB/MS	Y (Combo)		Y (Combo)	
USB 2.0	Y x2		Y x4	
LAN x 2	Y (RJ-45)		Y (RJ-45)	
CF	Y (Hot Swappable)			
DVI			Y	
PMC	Y	Y (32-bit/33 MHz)	Y	Y (32-bit/33 MHz)
IDE1		Y (44-pin)		Y (44-pin)
FDD		Y (33-pin)		Y (33-pin)
LEDs	Y		Y	
Reset Button	Y		Y	

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-6842	6U dual-slot Pentium® M cPCI host SBC with VGA, dual-GbE, LPT, dual-COM, dual-USB, CF, PMC, PS/2 KB/MS (w/o CPU & RAM)
cPCI-6842-2	6U dual-slot Pentium® M cPCI host SBC with VGA, dual-GbE, LPT, dual-COM, quad-USB, DVI, PMC, PS/2 KB/MS (w/o CPU & RAM)
cPCI-6842/PM16/M512/H40G	6U dual-slot Pentium® M 1.6 GHz cPCI host SBC with 512 MB DDR & 40 GB HDD

Contact your ADLINK representative for different CPU, memory combinations.

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