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cPCI-6841

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



The cPCI-6841's Intel® Pentium® M processor, high performance integrated graphics, dual-Gigabit Ethernet ports, and DB-9 Serial port combine to provide an outstanding performance computing solution, ADLIK's cPCI-6841 available today. As a 32-bit, 33 MHz CompactPCI® system board, the cPCI-6841 series, versatile I/O and low cost advantages are best for high-end industrial control, automation, non-telecommunication computers, and mission-critical applications.

Features

- ***Standard 6U form factor with 1-slot (4TE/HP) space***
- ***Supports Intel® Pentium® 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***

Peripheral Connectivity

Function	cPCI-6841		cPCI-6841-2	
	Face-plate	On-Board	Face-plate	On-Board
COM	Y (DB-9)	--	Y (DB-9)	--
VGA	Y (DB-15)	--	Y (DB-15)	--
PS/2	Y (Combo)	--	Y (Combo)	--
USB 2.0	Y	--	Y	--
LAN x 2	Y (RJ-45)	--	Y (RJ-45)	--
CF	--	Y (IDE1)	--	Y (IDE1)
DVI	--	--	Y	--
PMC	Y	Y (32-bit/33 MHz)	--	--
IDE1	--	Y (44-pin)	--	Y (44-pin)
FDD	--	Y (34-pin)	--	Y (34-pin)
LEDs	Y	--	Y	--
Reset button	Y	--	Y	--

Ordering Information

cPCI-6841	6U single-slot Pentium® M cPCI host SBC with one PMC slot (w/o CPU &RAM)
cPCI-6841-2	6U single-slot Pentium® M cPCI host SBC with DVI output (w/o CPU &RAM)
cPCI-6841/PM16/M512/H60G	6U single-slot Pentium® M 1.6 GHz cPCI host SBC with 512 MB DDR & 60 GB HDD
cPCI-6841/PM16/M512	6U single-slot Pentium® M 1.6 GHz cPCI host SBC with 512 MB DDR

Note: Contact us for more CPU and memory options

Specifications

CPU / Chipset / RAM

CPU	µ-FCPGA Intel® Pentium® M Celeron® M Processors:
	Pentium® M 1.6 GHz with 1 MB L2 cache
	Pentium® M 1.8 GHz with 2 MB L2 cache
	Celeron® M 1.3 GHz with 512 KB L2 cache
FSB	400 MHz
Chipset	Intel® 855GME with ICH4
RAM	Two 200-Pin SODIMM sockets, up to 2 GB Non-Registered ECC DDR-333 memory

Bus

CompactPCI® Standards	PICMG® 2.0 R3.0
CompactPCI® Bus	Ti-2050 32-bit/33 MHz PCI® to PCI-bus bridge, supports seven bus-mastering devices

BIOS

Chip	Award® 4 Mb flash memory
Features	Intel® PXE pre-boot on Ethernet
	Remote Console

I/O Interfaces

Display	Intel® 855GME Integrated
Ethernet	Dual-Gigabit Ethernet ports via Intel® 82541, supports front panel I/O
IDE	Built-in 2.5" ATA HDD housing and CF socket
USB	USB 2.0, one port on front panel
Serial Port	One DB-9 COM port
KB/MS	One PS/2 KB/MS Combo port
Floppy	On-board Pin Header
Front Panel I/Os	COM1, PS/2 KB/MS (Combo), VGA, two Gigabit LAN and USB
CF	One onboard CompactFlash® socket
PMC	One PMC

Other Features

Hardware Monitoring	Monitoring CPU temperature, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable. Generates system reset
Operating System Compatibility	Microsoft® Windows® 2000/XP / NT 4.0 Server/Server® 2003 XP Embedded, Red Hat® Linux® 9.0, Fedora® Core 3 (Other OS supprt please contact ADLINK for availability)

Mechanical and Environment

Form Factor	6U CompactPCI®
Dimensions	233.33 mm x 160 mm (L x W), 1-slot (4HP) wide
Operating Temp.	0˚C to 50˚C
Storage Temp.	-20˚C to 80˚C
Shock	15 G 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
Certificate or Test	CE, FCC Class A, HALT

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