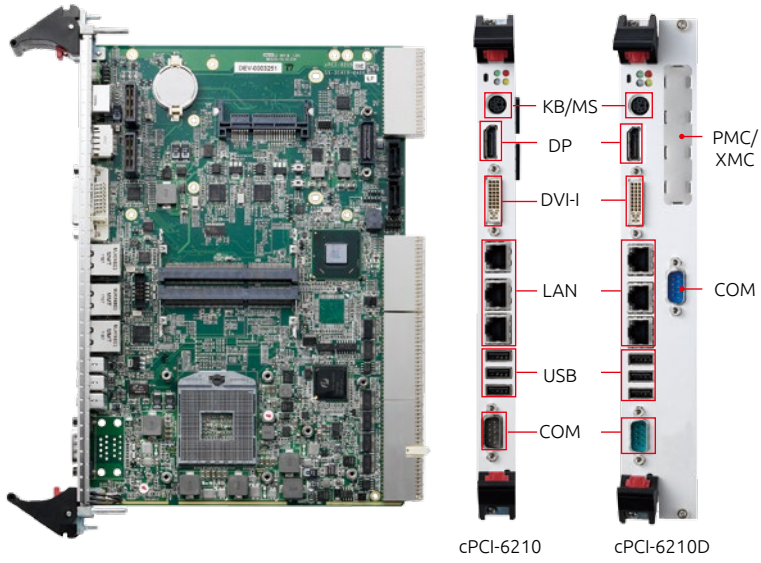
cPCI-6210 Series

6U CompactPCI® Quad-Core 2nd Generation Intel® Core™ i7 Processor Host/Peripheral Blade

Features

- Quad-core Intel® Core™ i7-2710QE processor @ 2.1GHz
- DisplayPort, DVI and VGA graphics interfaces
- SATA 6 Gb/s and CFast storage interfaces
- PCI Express x8 XMC slot in 8HP version
- Remote management support

CompactPCI®



Specifications

Processor & System

CPU

uFC-PGA Intel® Core™ i7-2710QE Processor 2.1GHz (Turbo boost to 3GHz), 6MB LLC, 45W TDP (4C)

uFC-PGA Intel® Core™ i5-2510E Processor 2.5GHz (Turbo boost to 3.2GHz), 3MB LLC, 35W TDP (2C)

uFC-PGA Intel® Celeron® B810 Processor 1.6GHz, 2MB LLC, 35W TDP (2C)

Supports Intel® Hyper-Threading and Turbo Boost Technology for Core™ i5/ i7 processors

Chipset

Intel® QM67 PCH

Memory

Dual channel DDR3-1066/1333/1600 SDRAM via two SODIMM sockets, up to 16GB capacity (dependent on available memory modules)

BIOS

AMI® EFI BIOS, 64M bit SPI flash memory

CompactPCI Bus

PCI 64 bit/ 66 MHz, 3.3V or 5V universal V(I/O)

Supports operation in system slot as master or in peripheral slot as stand-alone blade without connectivity to CompactPCI® bus (Satellite mode)

PICMG Standards

PICMG 2.0 CompactPCI R3.0

PICMG 2.1 Hot Swap R2.0

PICMG 2.9 System Management R1.0

PICMG 2.16 Packet Switch Backplane R1.0

Connectivity

PMC/XMC

One PCI 32 bit, 33/66MHz PMC or PCIe x8 XMC site (8HP only)

Ethernet

Three PCI Express Intel® 82574L GbE and one Intel® 82579LM PHY controllers for four 10/100/1000BASE-T ports

Three RJ-45 ports on front panel; two to J3 for PICMG 2.16 (one switched from front panel)

Supports KVM Redirection and SOL

Graphics

Integrated in Intel® Core™ processor, 3D engine

One DVI-I (digital+analog) port on front panel, analog RGB is switchable to rear, supports up to QXGA 2048 x 1536 pixels @75Hz, 32 bits

One dual mode DisplayPort on front panel, supports up to 2560 × 1600 pixels @ 60Hz; DVI, VGA and HDMI interfaces are available by adapter cables

One DVI port routed to rear

Up to four independent displays

USB

Up to three USB 2.0 front panel ports

Six USB ports routed to rear

PS/2

Front panel PS/2 keyboard/mouse port

Serial Port

Up to two serial ports on front panel (1 for 4HP, 2 for 8HP)

Supports RS-232/422/485 on COM1

Additional two serial ports routed to rear

Audio

High Definition Audio signals routed to rear

Specifications

Storage

SBC

One SATA 6 Gb/s direct connector for 2.5” onboard HDD/SSD

One SATA 6 Gb/s signal connector (7-pin) on board

Onboard CFast socket on SATA 3 Gb/s

RTM

Up to 3 SATA ports

CF (x1) and SD (x1) sockets

Eight SAS ports by LSISAS1068E with hardware RAID by two mini SAS x4 connectors

Operating System

OS

Microsoft Windows® XP

Microsoft Windows® 7

RedHat Enterprise Linux 6

Fedora 14

Wind River VxWorks 6.9, 6.8, 5.4

(Please contact ADLINK for other OS support)

Miscellaneous

LED

Power, WDT, Hard Disk, Hot Swap

Battery

Coin cell lithium battery onboard for RTC CMOS RAM

TPM

Atmel AT97SC3204 (optional, support upon request)

Watchdog Timer

System Reset and NMI, with programmable interval, 1-65535 seconds or minutes

Hardware Monitor

Monitors CPU temperature, system temperature, Vcore and DC voltages

Mechanical & Environmental

Form Factor

6U 4HP/8HP CompactPCI®

233.33mm x 160mm (LxW)

Equipped with CompactPCI connectors J1, J2, J3, J5

Operating Temperature

0°C to +60°C

-40°C to +70°C extended temperature (cPCI-ET6210 models)

-40°C to +85°C extreme extended temperature
(CPUs with 35W TDP, 8HP only)

Storage Temperature

-40°C to +85°C

RH Humidity

95% non-condensing

Shock

15G peak-to-peak, 11ms duration, non-operating

Vibration

2 Grms random vibration, 5-500Hz, each axis

Power Consumption*

1.35A@3.3V, 7.9A@5V, total 44W for Core i5-2510E

1.36A@3.3V, 13.56A@5V, total 72.3W for Core i7-2710QE

*100% CPU loading under Windows XP with Turbo Boost and Hyper-Threading enabled

EMI/EMC

EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3

I/O Table

		GbE	USB 2.0	COM	DVI	VGA	DP	PMC/ XMC	SATA	CFast	CF	Mic-in	Line-out	PS/2 KB/MS	SD	SAS
SBC																
cPCI-6210	**Faceplate**	3	3	1(1) (DB-9)	1 (DVI-I)		1							1		
	Onboard								2(3)	1						
cPCI-6210D	**Faceplate**	3	3	2(1) (DB-9)	1 (DVI-I)		1							1		
	Onboard							1	2(3)	1						
RTM																
cPCI-R6100	**Faceplate**	4	4	1 (RJ-45)	1	1								1		
	Onboard								2 (7-pin)		1(6)				1	
cPCI-R6110	**Faceplate**	2	4			1								1		
	Onboard								3(5)		1(6)				1	
cPCI-R6200	**Faceplate**	2	5	1 (DB-9)	1 (DVI-I)							1	1	1		4 (SFF-8088)
	Onboard		1 (5-pin)	1(4) (10-pin)					3(5)		1(5)					4 (SFF-8087)
cPCI-R6500D	**Faceplate**	2	1		2 (DVI-I+DVI-D)											
	Onboard		1 (10-pin)	2(2)					3(7) (7-pin)			1 (10-pin)		1 (10-pin)		
cPCI-R65N0	**Faceplate**	2	1	1	2									1		
	Onboard		1	1 (Tx/Rx)					3 (7-pin)			1(10-pin)				

(1) RS-232/422/485 selectable
(2) One RS-232/422/485 selectable, one Tx, Rx signals only
(3) One for onboard 2.5" SATA, one 7-pin connector for external HDD
(4) Tx, Rx signals only
(5) Two 7-pin signal connectors onboard for external HDDs and one direct connector for onboard 2.5" SATA HDD.
SATA direct connector can be replaced by CompactFlash adapter (DB-6920CF) for CF slot
(6) Converted from USB
(7) Space is reserved onboard for one 2.5" SATA drive.

Ordering Information

Processor Blades

- **cPCI-6210/710Q/M8G**
  4HP cPCI-6210 with Intel® i7-2710QE processor and 2x 4GB DDR3-1333 SODIMM with GbE x3, COM, DP, DVI-I, USB x3, SATA x2, PS/2 KB/MS, CFast
- **cPCI-6210/510E/M4G**
  4HP cPCI-6210 with Intel® i5-2510E processor and 2x 2GB DDR3-1333 SODIMM with GbE x3, COM, DP, DVI-I, USB x3, SATA x2, PS/2 KB/MS, CFast
- **cPCI-6210D/710Q/M8G**
  8HP cPCI-6210 with Intel® i7-2710QE processor and 2x 4GB DDR3-1333 SODIMM with GbE x3, COM x2, DP, DVI-I, USB x3, SATA x2, PS/2 KB/MS and PMC/XMC, CFast

Rear Transition Modules

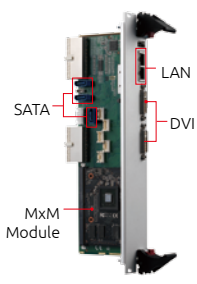
- **cPCI-R6100**
  4HP Rear I/O module with GbE x4, COM, USB x4, SATA x2, DVI, VGA, PS/2, CF, SD socket
- **cPCI-R6110**
  4HP Rear I/O module with GbE x2, USB x4, SATA x3, VGA, PS/2, CF, SD socket
- **cPCI-R6200**
  8HP Rear I/O module with GbE x2, USB x6, DVI-I, SATA x3, Mic-in, Line-out, PS/2 KB/MS, SAS x8
- **cPCI-R65N0**
  8HP 6U CompactPCI Rear Transition Module with NVIDIA GeForce GTX660M MXM 3.0 module, supports DVI-I, DVI-D, USB 2.0, 2x GbE, COM (RS-232/422/485), PS/2 KB/MS
- **cPCI-R6500D**
  2-slot 8HP cPCI-R6500DAC with AMD Radeon E6760 MXM module, 2x GbE, 1x DVI-I, 1xDVI-D, 1x USB, , 3x SATA and 10-pin KB/MS, audio, 2x COM headers
- **cPCI-R65N0**
  8HP 6U CompactPCI Rear Transition Module with NVIDIA GeForce GTX660M MXM 3.0 module, supports DVI-I, DVI-D, USB 2.0, 2x GbE, COM (RS-232/422/485), PS/2 KB/MS

  See 6U RTM selection guide for more options

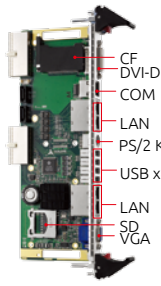
Accessories

- **DP-DVI cable**
  DisplayPort to DVI adapter cable
- **DP-VGA cable**
  DisplayPort to VGA adapter cable
- **DP-HDMI cable**
  DisplayPort to HDMI adapter cable

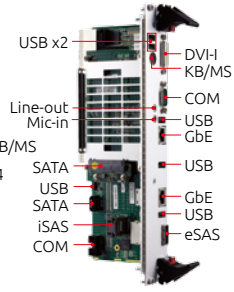
Contact us for different CPU, memory, HDD and CFast combinations.
See 6U RTM selection guide for more options.



cPCI-R6500D



cPCI-R6100



cPCI-R6200

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