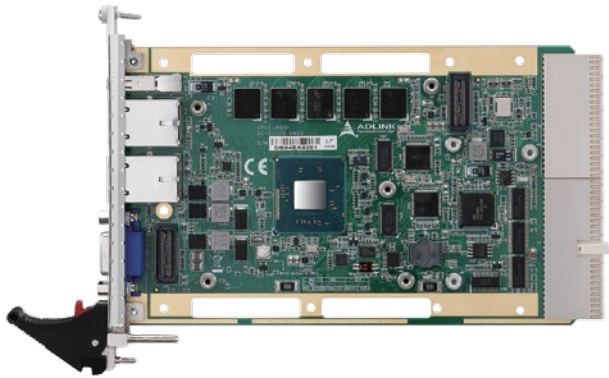


cPCI-3620 Series

3U CompactPCI Quad-Core Intel® Atom™ Processor Blade

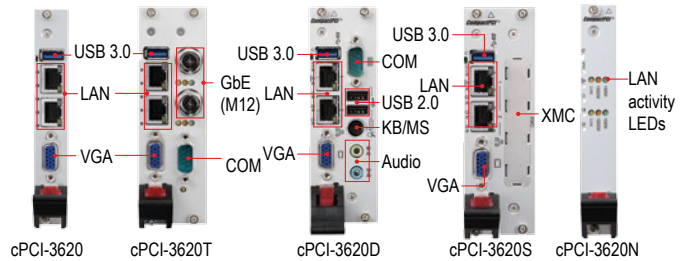


CompactPCI®



Features

- Low power quad-core Intel® Atom™ Processor E3845 SoC
- Up to 4GB DDR3L-1333 ECC soldered memory
- Onboard 32GB SSD support
- Smart Embedded Management Agent (SEMA) for system health monitoring
- Optional additional GbE ports with MIL-STD M12 connectors



Specifications

Processor & System

CPU	µFC-BGA quad-core Intel® Atom™ processor E3845 SoC, 1.9GHz, 2MB L3 cache, TDP 10W
Memory	Single channel DDR3L-1333 ECC soldered, up to 4GB
BIOS	AMI EFI BIOS, dual 64M Bit SPI flash memory
CompactPCI Bus	PCI 32-bit, 33/66MHz, 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 2.1 CompactPCI R3.0 PICMG 2.1 Hot Swap R2.0

Connectivity

PMC/XMC	One optional PCI 32-bit/66 MHz PMC site or PCIe x1 XMC site on 2nd or 3rd layer daughter board
Ethernet	Two 10/100/1000BASE-T Gigabit Ethernet Ports on faceplate by Intel® I210 controllers, switchable to J2 Two additional GbE in M12 MIL-STD connectors on layer 2 daughter board by Intel® 82574L (cPCI-3620T only)
Graphics	Integrated in Intel® processor One VGA on faceplate switchable to rear transition module by BIOS option
Serial Port	Optional serial port on selected dual-slot SKUs (cPCI-3620D, cPCI-3620T) Two serial ports routed to rear transition module
PS/2	Optional PS/2 keyboard mouse on cPCI-3620D
USB	One USB 3.0 on front panel One USB 2.0 routed to rear transition module Two additional USB 2.0 on cPCI-3620D
Audio	Optional Mic-in, Line-out on cPCI-3620D

Storage

Blade	One onboard 32GB SSD on daughter board One Serial ATA direct connector for 2.5" onboard HDD on selected SKUs (shared with SATA to RTM)
RTM	One SATA 3Gb/s port routed to RTM (shared with cPCI-3620 layer 2 SATA port)

Operating System

OS	Windows 7/8 32/64-bit Red Hat Enterprise Linux 6.5 Fedora 20 Wind River VxWorks 5.5.1, 6.4, 6.9 RTX Real-Time (Please contact ADLINK for other OS support)
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Miscellaneous

LED	Power, WDT, Storage Drive, Thermal, General Purpose
Battery	Coin cell lithium battery onboard for RTC backup power (optional Gold Capacitor)
Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes Controlled by SEMA
Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC voltage by SEMA

Mechanical & Environmental

Form Factor	3U 4HP/8HP CompactPCI 100mm x 160mm (L x W)
Operating Temp.	-40°C to +85°C with airflow -40°C to +70°C fanless
Storage Temp.	-50°C to +100°C
Relative Humidity	95% non-condensing
Shock	20g peak to peak, 11ms duration, non-operating
Vibration	2g random vibration, 5 to 500Hz in 3 axes, operating
Power Consumption	2.75A@5V, 13.75W (Windows 8, max. load)
Weight	cPCI-3620: 350g (with heat sink) cPCI-3620T: 470g (with heat sink)

Safety & EMI

Certifications	CE/FCC
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I/O Table

		GbE	Display ⁽³⁾	USB	COM	PS/2 KB/MS	Storage ⁽²⁾	SSD	Audio	XMC
SBC										
cPCI-3620 (4HP)	Faceplate	2 (RJ-45)	1 (VGA)	1 (3.0)						
	Onboard							1		
cPCI-3620D (8HP)	Faceplate	2 (RJ-45)	1 (VGA)	1 (3.0) 2 (2.0)	1 (DB9)	1			1 (Line-in) 1 (Line-out)	
	Onboard						1 (SATA)	Optional ⁽⁴⁾		
cPCI-3620S (8HP)	Faceplate	2 (RJ-45)	1 (VGA)	1 (3.0)						
	Onboard							Optional ⁽⁴⁾		1
cPCI-3620T (8HP)	Faceplate	2 (RJ-45) ⁽¹⁾ 2 (M12)	1 (VGA)	1 (3.0)	1 (DB9)					
	Onboard						1 (SATA)	Optional ⁽⁴⁾		
RTM										
cPCI-R3610(T)	Faceplate	2 (RJ-45)	1 (VGA)	1 (2.0)	2 (DB9)					
	Onboard						1 (SATA)			

(1) Two RJ-45 connectors from Intel® I210 GbE controllers and two M12 MIL-STD connectors from Intel® 82574L GbE controllers

(2) SATA port is shared with rear transition module SATA port

(3) Switchable to front or rear by BIOS selection

(4) Available by soldering SSD module to 3DB-SSD adapter board

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-3620/E3845/M4/S32	1-slot (4HP) 3U CompactPCI blade with Intel® Atom™ processor E3845 and 4GB DDR3L-1333 soldered memory, supports VGA, USB 3.0, 2x GbE and onboard 32GB SSD
cPCI-3620D/E3845/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Atom™ processor E3845 and 4GB DDR3L-1333 soldered memory, supports VGA, USB 3.0, 2x GbE, COM (RS-232/422/485), 2x USB 2.0, PS/2 keyboard mouse, line-in, line-out, and SATA connector
cPCI-3620N/E3845/M4/S32	1-slot (4HP) 3U CompactPCI blade with Intel® Atom™ processor E3845 and 4GB DDR3L-1333 soldered memory, no I/O only LEDs (Power, HDD, WDT, GP, GbE LEDs), and onboard 32GB SSD
cPCI-3620S/E3845/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Atom™ processor E3845 and 4GB DDR3L-1333 soldered memory, supports VGA, USB 3.0, 2x GbE, XMC site on Layer-2
cPCI-3620T/E3845/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Atom™ processor E3845 and 4GB DDR3L-1333 soldered memory, supports VGA, USB 3.0, 2x GbE in RJ-45 and 2x GbE in MIL-STD M12 connectors, COM (RS-232/422/485), and SATA connector

Rear Transition Module

cPCI-R3610	8HP Rear I/O module with 2x GbE, 1x USB 2.0, VGA, 2x COM, 1x SATA 3Gb/s, 50mm depth
cPCI-R3610T	8HP Rear I/O module with 2x GbE, 1x USB 2.0, VGA, 2x COM, 1x SATA 3Gb/s, 80mm depth

Contact us for different CPU, memory and storage combinations.

