CT-3620 Series

Rugged Conduction Cooled 3U CompactPCI® Processor Blade with Quad-Core Intel® Atom™ Processor

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



CompactPCI® CONDUCTION COOLED

Specifications

Processor & System

CPU
µFC-BGA quad-core Intel® Atom™ processor E3845 SoC, 1.9GHz, 2MB L3 cache, 10W TDP

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)

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

Connectivity

Ethernet
Two Intel® I210 GbE controllers for two rear ports

Graphics
Integrated in processor with DirectX 11.1 and OCL1.2

One VGA routed to rear

Serial Port
Two serial ports routed to rear

USB
One USB routed to rear

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)

Miscellaneous

LED
Power, WDT, Storage Drive, Thermal, General Purpose

Battery
Gold Capacitor onboard for RTC CMOS RAM

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

Hardware Monitor
Monitors CPU temperature, system temperature, Vcore and DC voltage

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Specifications

- **Mechanical & Environmental**

Form Factor
3U 4HP CompactPCI
100mm x 160mm (L x W)

Operating Temp.
-40°C to +85°C

Storage Temp.
-50°C to +100°C

Shock
40g (half-sine), 11ms duration, non-operating

Vibration
5g (sine), 22 to 2000Hz, operating

Relative Humidity
95% non-condensing

Power Consumption
2.75A @ 5V, 13.75W

- **Safety & EMI**

Certifications: CE/FCC

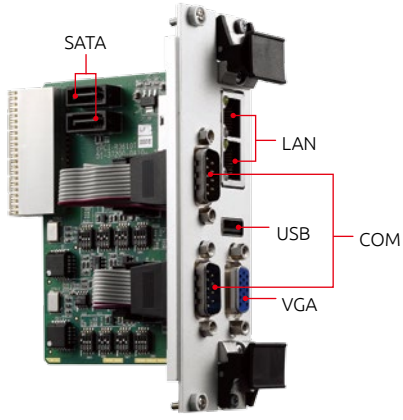
Ordering Information

Processor Blades

- **CT-3620/E3845/M4/S32**
  1-slot (4HP) rugged conduction cooled 3U CompactPCI blade with Intel® Atom™ processor E3845, 4GB DDR3L-1333 soldered memory, and onboard 32GB SSD

Rear Transition Modules

- **cPCI-R3610**
  8HP rear I/O module with 2x GbE, 1x USB 2.0, VGA, 2x COM, 2x SATA 3Gb/s (only 1x SATA from CT-3620), 50mm depth
- **cPCI-R3610T**
  8HP rear I/O module with 2x GbE, 1x USB 2.0, VGA, 2x COM, 2x SATA 3Gb/s (only 1x SATA from CT-3620), 80mm depth



cPCI-R3610T

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