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

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
- **Serial Port**: Two serial ports routed to rear
- **USB**: One USB routed to rear

Storage
- **Blade**: One onboard 32GB SSD on daughter board
- **RTM**: One SATA 3Gb/s port routed to RTM

Operating System
- **OS**: Windows 7 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

Mechanical & Environmental
- **Form Factor**: 3U 4HP CompactPCI
- **Size**: 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

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<th>Model Number</th>
<th>Description/Configuration</th>
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<tr>
<td><strong>Processor Blades</strong></td>
<td>CT-3620/E3845/M4/S32 1-slot (4HP) conduction cooled 3U CompactPCI blade with Intel® Atom™ processor E3845, 4GB DDR3L-1333 soldered memory, and onboard 32GB SSD</td>
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<td><strong>Rear Transition Modules</strong></td>
<td>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&lt;br/&gt;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</td>
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