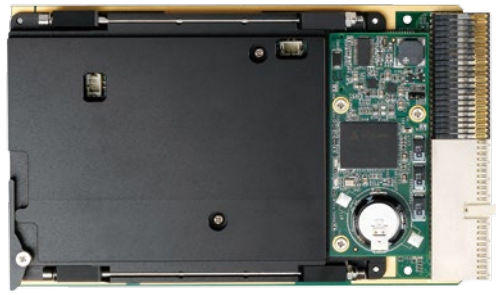
CT-3510 Series

Rugged Conduction Cooled 3U CompactPCI PlusIO Blade with 4th Generation Intel® Core™ i7/i5 Processor

Features

- 4th generation Intel® Core™ i7/i5 processor
- Up to 8GB DDR3L-1600 ECC soldered memory
- Onboard 32GB NAND flash support
- 2x GbE, VGA, 3x USB, 3x SATA, 4x PCIe, COM to rear



CompactPCI PlusIO

CONDUCTION COOLED

Specifications

Processor & System

CPU

µFC-BGA quad-core Intel® Core™ i7-4700EQ processor, up to 3.4GHz, 6MB L3 cache, 47W (37W cTDP)

µFC-BGA dual-core Intel® Core™ i5-4402E processor, up to 2.7GHz, 3M L3 cache, 25W

Chipset

Intel® QM87 PCH Chipset

RAM

Dual channel DDR3L-1600 SDRAM with ECC soldered, up to 8GB

BIOS

AMI EFI BIOS, 64Mb SPI flash memory

CompactPCI Bus

PCI 32-bit, 33/66MHz, 3.3V or 5V universal V(I/O)

PICMG standards

PICMG 2.0 CompactPCI R3.0
PICMG 2.1 Hot Swap R2.0
PICMG 2.30 CompactPCI PlusIO
PICMG 2.9 System Management R1.0

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

One serial port supports RS-232 TX/RX only

USB

Three USB 2.0 routed to rear

PCI-Express

Four PCIe x1 or one PCIe x4 by BIOS option

Storage

Blade

One onboard 32GB NAND flash on daughter board

RTM

3x SATA 3Gb/s ports routed to RTM

Operating System

OS

Microsoft Windows 7/8 32/64-bit
Red Hat Enterprise Linux 6.4
Fedora 18
Wind River VxWorks 6.9
(Please contact ADLINK for other OS support)

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Specifications

Miscellaneous

LED
Power (Green), WDT (Amber), HDD (Blue), Thermal (Red), General Purpose (Yellow)

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

TPM
Atmel TPM AT97SC3204 optional support upon request

Mechanical & Environmental

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

Operating Temp.
-40°C to +70°C (Core™ i7-4700EQ CPU only)
-40°C to +85°C (Core™ i5-4402E CPU)

Storage Temp.
-50°C to +100°C

Relative Humidity
95% non-condensing

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

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

Power Consumption
11.95A @4.78V, 2.23A @ 3.3V, total 64.50W

Weight
465g with heatsink (net)

Safety & EMI

Certifications
CE/FCC

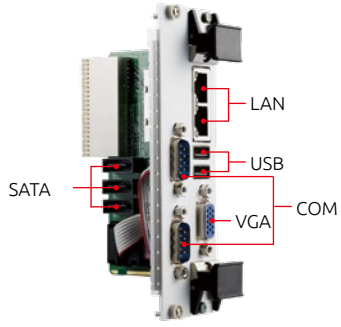
Ordering Information

Processor Blades

- **CT-3510/4700E/M4/S32**
  1-slot (4HP) rugged conduction cooled 3U CompactPCI blade with Core™ i7-4700EQ up to 3.4 GHz, 4GB DDR3L-1600 ECC soldered memory, and onboard 32GB SSD
- **CT-3510/4402E/M4/S32**
  1-slot (4HP) rugged conduction cooled 3U CompactPCI blade with Core™ i5-4402E up to 2.7 GHz, 4GB DDR3L-1600 ECC soldered memory, and onboard 32GB SSD

Rear Transition Modules

- **cPCI-R3P00**
  8HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 50mm depth
- **cPCI-R3P00T**
  8HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 80mm depth



cPCI-R3P00(T)

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