

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



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)

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

