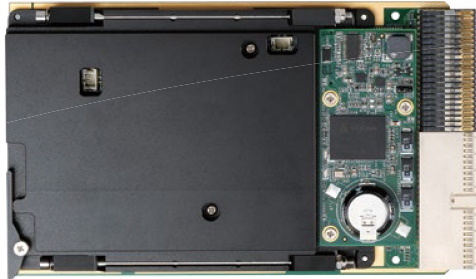# CT-3510 Series

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

3U cPCI Blades

4

Specifications

Processor & System

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

SBC	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)

Miscellaneous

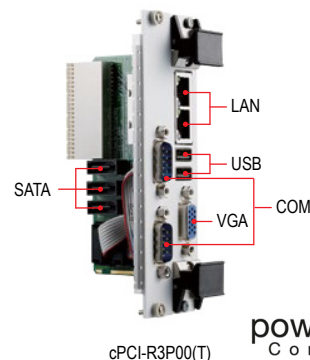|	
LED	Power (Green), WDT (Amber), HDD (Blue), Thermal (Red), General Purpose (Yellow)
Battery	Gold Capacitor onboard for RTC CMOS RAM
Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes
Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC 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	Net weight 465.35g with heatsink

Safety & EMI

Certifications	CE/FCC

Ordering Information

Model Number	Description/Configuration
Processor Blades	
CT-3510/4700E/M4/S32	1-slot (4HP) rugged conduction cooled 3U Compact-PCI 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 2 x GbE, 2 x COM, 2 x USB 2.0, 3 x SATA connectors, VGA, 50mm depth
cPCI-R3P00T	8HP Rear I/O module with 2 x GbE, 2 x COM, 2 x USB 2.0, 3 x SATA connectors, VGA, 80mm depth

cPCI-R3P00(T)

LAN
USB
SATA
COM
VGA

powerBridge
Computer