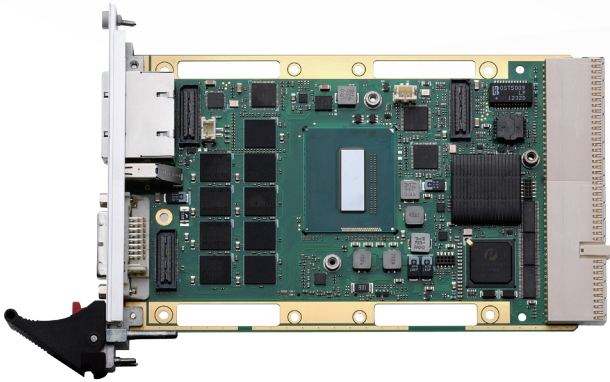


cPCI-3510(BL) Series

3U CompactPCI 4th/5th Generation
Intel® Core™ i7 Processor Blade with ECC

3U cPCI Blades



CompactPCI®



Features

- Quad-core 4th/5th Generation Intel® Core™ i7 processor
- Up to 8GB DDR3L ECC soldered memory onboard (up to 16GB for cPCI-3510BL)
- Up to three independent displays
- System/Peripheral slot operation
- Intel® AMT 9.0 support



cPCI-3510(BL) cPCI-3510(BL)D cPCI-3510(BL)G cPCI-3510L cPCI-3510M

Specifications

Processor & System

CPU	NEW Quad-core Intel® Core™ i7-5700EQ Processor 2.6GHz (Turbo boost up to 3.4GHz), 6M Cache, 47/37W by cTDP (cPCI-3510BL only) Quad-core Intel® Core™ i7-4700EQ Processor 2.4GHz (Turbo boost up to 3.4GHz), 6M Cache, 47/37W by cTDP Dual-core Intel® Core™ i5-4402E Processor 1.6GHz (Turbo boost up to 2.7GHz), 3M Cache, 25W Supports Intel® Hyper-Threading and Turbo Boost Technology, VT-x, VT-D, vPro Technology
Chipset	Intel® QM87 Chipset
Memory	DDR3L-1333 SDRAM ECC soldered, up to 16GB (cPCI-3510BL) DDR3L-1600 SDRAM ECC soldered, up to 8GB (cPCI-3510)
BIOS	AMI EFI BIOS, 64Mbit SPI Flash memory
CompactPCI Bus	PCI 32bit, 33/66 MHz, 3.3V or 5V universal V (I/O) Supports 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 PICMG 2.9 System Management (R1.0)

Connectivity

PMC/XMC	Optional PCI 64bit/66MHz PMC site or PCIe x1 XMC site
Ethernet	One Intel® I217LM controller for one Gigabit Ethernet front panel port with Intel® AMT 9.0 support Three Intel® I210 controllers for one Gigabit Ethernet front panel port and two rear ports Additional two Intel® 82574L controllers for two Gigabit Ethernet front panel ports on riser card (cPCI-3510L only)
Graphics	Integrated in Intel® processor, 3D engine One DVI-I (digital+analog) port on front panel, analog switchable to rear, supports up to QXGA 2048x1536 pixels @75Hz, 32-bits Two DisplayPorts on riser card, support up to 2560x1440 pixels @60Hz, DVI, VGA and HDMI interfaces are available by adapter cables (cPCI-3510(BL)G only) Three independent displays with different /contents
USB	Single USB 3.0 port on front panel, and up to three USB ports on front panel on selected SKUs Three USB ports to rear, two on RTM panel
Audio	Line-in and Line-out ports on front panel (cPCI-3510(BL)D only)
PS/2	Keyboard/Mouse on cPCI-3510(BL)D and cPCI-3510(BL)G

Serial Port	Up to four serial ports One RS-232/422/485 selectable port on front panel One RS-232/422/485 10-pin header on riser card (cPCI-3510(BL)G only) Two serial ports on rear panel: one with Tx/Rx signal only, one converted from USB signal
Storage	Blade: One SATA 6 Gb/s direct connector for 2.5" onboard HDD (8HP & 12HP version only) CFast socket or mSATA socket Optional onboard 32GB SSD (by replacing CFast adapter board) RTM: Three 7-pin SATA signal connectors Supports SATA RAID 0/1/5/10
Operating System	OS: Microsoft Windows 7/8, 32/64-bit Red Hat Enterprise Linux 6.4 Fedora 18 Wind River VxWorks 6.9, 32/64-bit (Please contact ADLINK for other OS support)
Miscellaneous	LEDs: Power, WDT, Storage Drive, Overheat, General Purpose Battery: Coin cell lithium battery onboard for RTC CMOS RAM for BIOS configuration Watchdog Timer: System Reset and NMI, with Programmable Interval, 1-65535 sec or 1-65535 minutes Hardware Monitor: Monitors CPU temperature, system temperature and DC voltages by IPMI TPM: Atmel TPM AT97SC3204 (optional support upon request)
Mechanical & Environmental	Form Factor: 3U 4HP/8HP/12HP CompactPCI equipped with HM J1 and J2 connector for cPCI-3510(BL) 100mm x 160mm (L x W) Operating Temperature: -20°C to +70°C (Core™ i7-4700EQ and i7-5700EQ 47W) -40°C to +85°C (Core™ i5-4402E, Core™ i7-4700EQ and i7-5700EQ 47W adjusted to 37W by Intel® cTDP) Storage Temperature: -50°C to +100°C RH Humidity: 95% non-condensing Shock: 20g peak-to-peak, 11ms duration, non-operating Vibration: 2g random vibration, 5 to 500Hz in 3 axes, operating Weight: Net weight 713.55g (cPCI-3510(BL)D with heatsink) Net weight 718.20g (cPCI-3510(BL)G with heatsink) Certifications: CE/ FCC

I/O Table

		GbE	USB	COM	Display	PS/2 KB/MS	Storage	Onboard SSD	Audio	PMC/XMC
cPCI-3510(BL) (4HP)	Faceplate	2 (RJ-45)	1 (3.0)		1 (DVI-I)					
	Onboard						1 (CFast)	optional ⁽²⁾		
cPCI-3510(BL)D (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	1 (DB9)	1 (DVI-I)	1				
	Onboard						1 (SATA) 1 (CFast)	optional ⁽²⁾	1 (Line-in) 1 (Line-out)	
cPCI-3510(BL)G (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 1 (2.0)	1 (RJ-45)	1 (DVI-I) 2 (DP)	1				
	Onboard			1 (10-pin)			1 (SATA) 1 (CFast)	optional ⁽²⁾		
cPCI-3510L (8HP)	Faceplate	4 (RJ-45)	1 (3.0) 1 (2.0)	1(DB9)	1 (DVI-I)					
	Onboard						1 (SATA) 1 (CFast)	optional ⁽²⁾		
cPCI-3510M (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	2 (DB9)	1 (DVI-I) 2 (DVI-D)	1			1 (Line-in) 1 (Line-out)	
	Onboard						1 (SATA) 1 (CFast)	optional ⁽²⁾		
cPCI-3510S (8HP)	Faceplate	2 (RJ-45)	1 (3.0)		1 (DVI-I)					1
	Onboard									
cPCI-3510P (12HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	1 (DB9)	1 (DVI-I)	1			1 (Line-in) 1 (Line-out)	
	Onboard						1 (SATA) 1 (CFast)			1
cPCI-R3P00(T)	Faceplate	2 (RJ-45)	2 (2.0)	2 (DB9)	1 (VGA) ⁽¹⁾					
	Onboard						3 (SATA)			

(1) Switched from front port
 (2) Available by replacing CFast or mSATA board with onboard SSD adapter board

Ordering Information

Model Number	Description/Configuration
Processor Blades	
cPCI-3510BL/5700E/M16/S32 NEW	1-slot (4HP) 3U CompactPCI blade with Intel® Core™ i7-5700EQ processor and 16GB DDR3L-1333 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0 and onboard 32GB SSD
cPCI-3510/4700E/M8/S32	1-slot (4HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 8GB DDR3L-1600 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0 and onboard 32GB SSD
cPCI-3510BLD/5700E/M16 NEW	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-5700EQ processor and 16GB DDR3L-1333 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector
cPCI-3510D/4700E/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector
cPCI-3510BLG/5700E/M16 NEW	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-5700EQ processor and 16GB DDR3L-1333 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, RJ-45 COM, 2x DisplayPort, PS/2 KB/MS, 1x USB 2.0, CFast socket and SATA connector
cPCI-3510G/4700E/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, RJ-45 COM, 2x DisplayPort, PS/2 KB/MS, 1x USB 2.0, CFast socket and SATA connector
cPCI-3510L/4700E/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 4x GbE, 1x USB 3.0, 1x USB 2.0, COM, CFast socket and SATA space
cPCI-3510M/4700E/M4	2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, 3x DVI, 2x GbE, 1x USB 3.0, 2x USB 2.0, 2x COM, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector

Note: All specifications are subject to change without further notice.

cPCI-3510P/4700E/M4 (available by request) 3-slot (12HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket, SATA connector and PMC/XMC connector

cPCI-3510S/4700E/M4 2-slot (8HP) 3U CompactPCI blade with Intel® Core™ i7-4700EQ processor and 8GB DDR3L-1600 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, CFast socket and PMC/XMC connector

Rear Transition Module

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

Accessories

SATA drive installation kit	2.5" SATA drive installation package including bracket, screws
Y-cable for keyboard & mouse	Y-cable for keyboard & mouse and 200mm in cable length
DisplayPort to DVI cable	DisplayPort to DVI adapter cable with 150mm cable (one is included in cPCI-3510(BL)G package by default)
DisplayPort to VGA cable	DisplayPort to VGA adapter cable with 150mm cable
DisplayPort to HDMI cable	DisplayPort to HDMI adapter cable with 150mm cable
RJ-45 to DB9 cable	RJ-45 to DB9 COM adapter and 200mm in cable length
SCSI 100p to IO cable (available by request)	SCSI 100-pin male to 2 x DVI-D female, 2 x DB9 male, 2 x USB female, 2 x PS/2 female, 2 x audio jack, 150 mm cable

Contact us for different CPU, memory, SSD/HDD, CFast and mSATA combinations.

