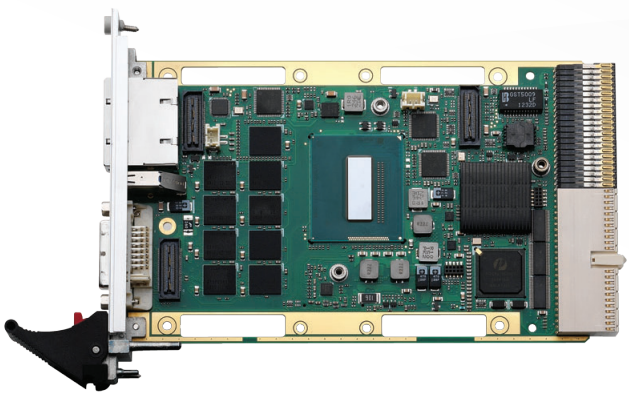
cPCI-3511(BL) Series

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



CompactPCI® PlusIO

EXTENDED TEMPERATURE

Features

- Quad-core 4th/5th Generation Intel® Core™ i7 processor
- Up to 8GB DDR3L ECC soldered memory onboard (up to 16GB for cPCI-3511BL)
- System/Peripheral slot operation
- PICMG 2.30 CompactPCI PlusIO compliant
- Intel® AMT 9.0 support



cPCI-3511(BL) cPCI-3511(BL)D cPCI-3511(BL)G cPCI-3511L

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-3511BL 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-3511BL)
	DDR3L-1600 SDRAM ECC soldered, up to 8GB (cPCI-3511)
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)
	PICMG 2.30 CompactPCI PlusIO

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-3511L 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 2560×1440 pixels @60Hz, DVI, VGA and HDMI interfaces are available by adapter cables (cPCI-3511(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-3511(BL)D only)
PS/2	Keyboard/Mouse on cPCI-3511(BL)D and cPCI-3511(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-3511(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 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 CompactPCI equipped with HM J1 and UHM J2 connector
	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, 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-3511(BL)D with heatsink)
	Net weight 718.20g (cPCI-3511(BL)G with heatsink)
Certifications	CE/ FCC

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I/O Table

		GbE	USB	COM	Display	PS/2 KB/MS	Storage	Onboard SSD	Audio	PMC/XMC
cPCI-3511(BL) (4HP)	Faceplate	2 (RJ-45)	1 (3.0)		1 (DVI-I)					
	Onboard						1 (CFast)	optional[2]		
cPCI-3511(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-3511(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-3511L (8HP)	Faceplate	4 (RJ-45)	1 (3.0) 1 (2.0)	1(DB9)	1 (DVI-I)					
	Onboard						1 (SATA) 1 (CFast)	optional[2]		
cPCI-R3P00(T)	Faceplate	2 (RJ-45)	2 (2.0)	2 (DB9)	1 (VGA)[1]					
	Onboard						3 (SATA)			

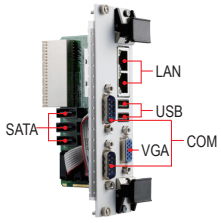
(1) Switched from front port
(2) Available by replacing CFast or mSATA board with onboard SSD adapter board

Ordering Information

Model Number	Description/Configuration
Processor Blades	
cPCI-3511BL/5700E/M16/S32 (available by request) NEW	1-slot (4HP) 3U CompactPCI PlusIO 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-3511/4700E/M8/S32 (available by request)	1-slot (4HP) 3U CompactPCI PlusIO 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-3511BLD/5700E/M16 (available by request) NEW	2-slot (8HP) 3U CompactPCI PlusIO 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-3511D/4700E/M4 (available by request)	2-slot (8HP) 3U CompactPCI PlusIO 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-3511BLG/5700E/M16 (available by request) NEW	2-slot (8HP) 3U CompactPCI PlusIO 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-3511G/4700E/M4 (available by request)	2-slot (8HP) 3U CompactPCI PlusIO 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-3511L/4700E/M4 (available by request)	2-slot (8HP) 3U CompactPCI PlusIO 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 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-3511BLG 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.



cPCI-R3P00(T)

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