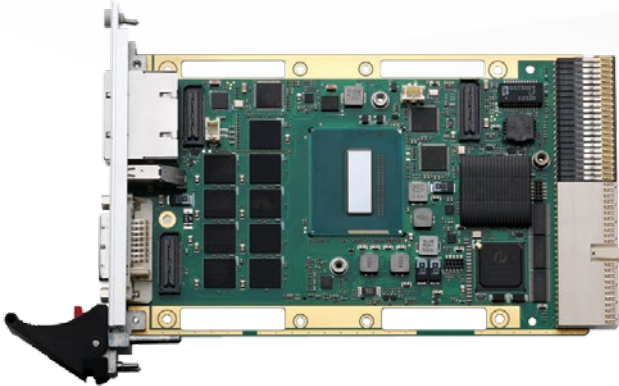


cPCI-3510 Series

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

NEW



CompactPCI®

EXTENDED TEMPERATURE

Features

- Quad-core 4th Generation Intel® Core™ i7 processor
- Up to 8GB DDR3L-1600 ECC soldered memory onboard
- Supports three independent displays
- System/Peripheral slot operation
- PICMG 2.30 CompactPCI PlusIO compliant



cPCI-3510 cPCI-3510D cPCI-3510G cPCI-3510L cPCI-3510M

Specifications

Processor & System

CPU	<p>μFC-BGA Intel® Core™ i7-4860EQ Processor, 6M Cache, up to 3.20 GHz, 47W</p> <p>μFC-BGA quad-core Intel® Core™ i7-4700EQ Processor, 6M Cache, up to 3.40 GHz, 47/37W by cTDP</p> <p>μFC-BGA dual-core Intel® Core™ i5-4402E Processor, 3M Cache, up to 2.70 GHz, 25W</p> <p>Supports Intel® Hyper-Threading and Turbo Boost Technology, VT-x, VT-D, vPro Technology</p>
Chipset	Intel® QM87 PCH chipset
Memory	DDR3L-1600 SDRAM with ECC soldered, up to 8GB
BIOS	AMI® EFI BIOS, 64Mbit SPI Flash memory
CompactPCI Bus	<p>PCI 32bit, 33/66 MHz, 3.3V or 5V universal V(I/O)</p> <p>Supports operation in system slot as master or in peripheral slot as stand-alone blade without connectivity to CompactPCI® bus (Satellite mode)</p>
PICMG Standards	<p>PICMG 2.0 CompactPCI R3.0</p> <p>PICMG 2.1 Hot Swap R2.0</p> <p>PICMG 2.9 System Management (R1.0)</p> <p>PICMG 2.30 CompactPCI PlusIO</p>

Connectivity

PMC/XMC	Optional One PCI 64bit/66MHz PMC site or PCI Express x1 XMC site
Ethernet	<p>One Intel® I217LM controller for one Gigabit Ethernet front panel port with Intel® AMT 9.0 support</p> <p>Three Intel® I210 controllers for one Gigabit Ethernet front panel port and two rear ports</p> <p>Additional two Intel® 82574L controllers for two Gigabit Ethernet front panel ports on riser card (cPCI-3510L only)</p>
Graphics	<p>Integrated in Intel® processor, 3D engine</p> <p>One DVI-I (digital+analog) port on front panel, analog switchable to rear, supports up to QXGA 2048x1536 pixels @75Hz, 32-bits</p> <p>Two DisplayPorts on riser card, support up to 2560x1440 pixels @60Hz, DVI, VGA and HDMI interfaces are available by adapter cables (cPCI-3510G only)</p> <p>Three independent displays with different /contents</p>
USB	<p>Single USB 3.0 port on front panel, and up to three USB 2.0 ports on front panel on selected SKUs</p> <p>Three USB ports to rear, two on RTM panel</p>

Serial Port	<p>Up to four serial ports</p> <p>One RS-232/422/485 selectable port on front panel</p> <p>One RS-232/422/485 10-pin header on riser card (cPCI-3510G only)</p> <p>Two serial ports on rear panel: one with Tx/Rx signal only, one converted from USB signal</p>
Audio	Line-in and Line-out ports on front panel (cPCI-3510D only)
PS/2	Keyboard/Mouse on cPCI-3510D and cPCI-3510G
Storage	<p>SBC</p> <p>One SATA 6 Gb/s direct connector for 2.5" onboard HDD (8HP & 12HP version only)</p> <p>CFAST socket</p> <p>Optional onboard 32GB SSD (by replacing CFAST adapter board)</p> <p>RTM</p> <p>Three 7-pin SATA signal connectors</p> <p>Supports SATA RAID 0/1/5/10</p>

Operating System

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

LED	Power (green), WDT(amber), Storage Drive (blue), Overheat (red), General purpose(yellow)
Battery	Coin cell lithium battery onboard for RTC
Watchdog Timer	CMOS RAM for BIOS configuration
Hardware Monitor	System Reset and NMI, with Programmable Interval, 1-65535 sec or 1-65535 minutes
TPM	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 HMJ1 and J2 connector for cPCI-3510, UHM J2 connector for cPCI-3511 100mm x 160mm (L x W)
Operating Temperature	-20°C to +70°C (Core™ i7-4700EQ 47W) -40°C to +85°C (Core™ i5-4402E & Core™ i7-4700EQ 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	2 Grms random vibration between 5-500Hz in 3 axis
Certification	CE/ FCC
Weight	Net weight 713.55g (cPCI-3510D with heatsink) Net weight 718.20g (cPCI-3510G with heatsink)
Certifications	CE/ FCC

I/O Table

		GbE	USB 3.0	USB 2.0	COM	VGA	DVI	DP	PS/2 KB/MS	SATA	CFast	On board SSD	Line-in	Line-out
cPCI-3510	Faceplate	2	1				1 DVI-I							
	Onboard										1	optional ⁽²⁾		
cPCI-3510D	Faceplate	2	1	2	1 (DB-9)	1 DVI-I			1					
	Onboard									1	1	optional ⁽²⁾	1	1
cPCI-3510G	Faceplate	2	1	1	1 (RJ-45)	1 DVI-I		2	1					
	Onboard				1 (10-pin)					1	1	optional ⁽²⁾		
cPCI-3510L	Faceplate	4	1	1	1 (DB-9)	1 DVI-I								
	Onboard									1	1	optional ⁽²⁾		
cPCI-3510M	Faceplate	2	1	2	2 (DB-9)	1 DVI-I	2 DVI-D		1				1	1
	Onboard									1	1	optional ⁽²⁾		
cPCI-R3P00(T)	Faceplate	2		2	2	1 ⁽¹⁾								
	Onboard									3				

(1) Switched from front port

(2) Available by replacing CFast socket adapter board to SSD adapter board

(3) cPCI-3510M is shipped with 100-pin connector converting I/O listed

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-3510/4700E/M8/S32	1-slot (4HP) cPCI-3510 with Intel® Core™ i7-4700EQ processor and 8GB DDR3L-1600 ECC soldered memory, DVI, 2 x GbE, 1 x USB 3.0 and onboard 32GB SSD
cPCI-3511/4700E/M8/S32	1-slot (4HP) cPCI-3511 CPCI PlusIO blade with Intel® Core™ i7-4700EQ processor and 8GB DDR3L-1600 ECC soldered memory, DVI, 2 x GbE, 1 x USB 3.0 and onboard 32GB SSD
cPCI-3510D/4700E/M4	2-slot (8HP) cPCI-3510 with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2 x GbE, 1 x USB 3.0, COM, 2 x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast and on board SATA drive space
cPCI-3510G/4700E/M4	2-slot (8HP) cPCI-3510 with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2 x GbE, 1 x USB 3.0, RJ-45 COM, 2 x DisplayPort, PS/2 KB/MS, 1x USB 2.0, CFast socket and on board SATA drive space
cPCI-3511L/4700E/M4	2-slot (8HP) cPCI-3511L CPCI PlusIO blade with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 4 x GbE, 1 x USB 3.0, 1 x USB 2.0, RJ-45 COM, CFast socket and on board SATA drive space
cPCI-3510L/4700E/M4	2-slot (8HP) cPCI-3510 with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 4 x GbE, 1 x USB 3.0, 1 x USB 2.0, RJ-45 COM, CFast socket and on board SATA drive space
cPCI-3510P/4700E/M4	3-slot (12HP) cPCI-3510 with Intel® Core™ i7-4700EQ processor and 4GB DDR3L-1600 ECC soldered memory, DVI, 2 x GbE, 1 x USB 3.0, COM, 2 x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast, on board SATA drive space and PMC/XMC

Rear Transition Module

cPCI-R3P00	8 HP Rear I/O module with GbEx2, COMx2, USBx2, SATAx3, VGA, 50mm depth
cPCI-R3P00T	8 HP Rear I/O module with GbEx2, COMx2, USBx2, SATAx3, VGA, 80mm depth

Accessories

DB-3CFAST	CFast socket adapter board
DB-3SSD	32GB SSD adapter board
DP-DVI cable	DisplayPort to DVI adapter cable (one is included in cPCI-3510G package by default)
DP-VGA cable	DisplayPort to VGA adapter cable
DP-HDMI cable	DisplayPort to HDMI adapter cable

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

