

# cPCI-6530(BL) Series

6U CompactPCI 5th/4th Generation Intel® Core™ Processor Blade with two PMC/XMC sites

## Features

- Quad-core 5th/4th Generation Intel® Core™ i7 processor with ECC
- Dual channel DDR3L ECC memory, soldered and SO-CDIMM, up to 16GB
- Versatile storage: SSD, CFAST, mSATA
- Dual PMC/XMC sites
- Remote management and TPM support

CompactPCI®



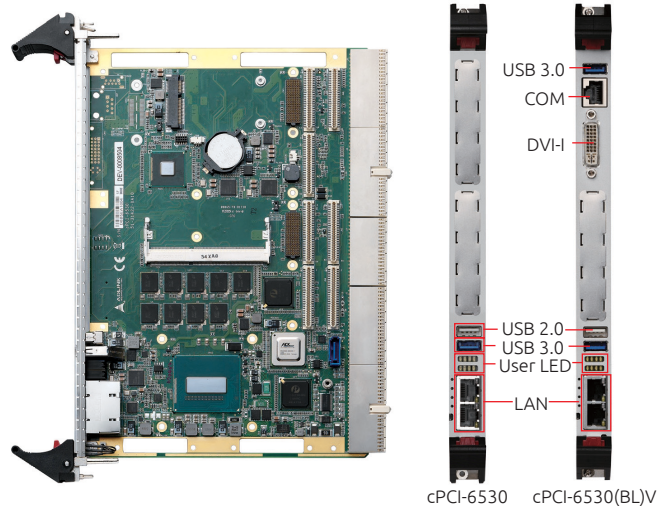
## Specifications

### Processor & System

CPU	<p><b>New</b> uFC-BGA quad-core Intel® Core™ i7-5850EQ processor, 2.7/3.4GHz, 6MB L3 cache, 47/27 TDP, Intel® Iris Pro Graphics 6200</p> <p><b>New</b> uFC-BGA quad-core Intel® Core™ i7-5700EQ processor, 2.6/3.4GHz, 6MB L3 cache, 47/37W TDP</p> <p>uFC-BGA quad-core Intel® Core™ i7-4700EQ processor, 2.4/3.4GHz, 6MB L3 cache, 47/37W TDP</p> <p>uFC-BGA dual-Core Intel® Core™ i5-4402E processor, 2.7GHz, 3MB L3 cache, 25W TDP</p>
Chipset	Intel® QM87 Express Chipset
Memory	Dual channel DDR3L-1600 SDRAM with ECC, up to 32GB* * With onboard 16GB memory, the overall DDR frequency will be 1067MHz One channel in SO-CDIMM socket up to 16GB; one channel soldered onboard up to 16GB (dependent on availability of memory devices and modules)
BIOS	AMI® EFI BIOS, 8MB SPI flash memory
CompactPCI Bus	PCI 64-bit, 66MHz, 3.3V or 5V universal V(I/O) Supports operation in system slot and in peripheral slot with CompactPCI® bus communication (Universal mode)
Standard	PICMG 2.0 CompactPCI R3.0 PICMG 2.1 Hot Swap R2.0 PICMG 2.9 System Management R1.0 PICMG 2.16 Packet Switch Backplane R1.0

### Connectivity

PMC/XMC	Up to Two PMC/XMC sites PMC1 or XMC1: 64b/33,66,133M or PCIe x8 Gen2 (space shared with I/Os & onboard drive) PMC2 or XMC2: 64b/33,66,133M or PCIe x8 Gen2 with rear I/O
Ethernet	Three Intel® I210 Gigabit Ethernet controllers and one Intel® I217 PHY controller Two 10/100/1000BASE-T ports on front panel with iAMT support on one port Two 10/100/1000BASE-T ports to J3 for PICMG 2.16 Two additional 10/100/1000BASE-T ports from Intel® 82576EB on RTM (cPCI-R6100 or cPCI-R6110)
Graphics	Integrated in Intel® processor with up to DX 11.2 and OGL4.3 One DVI-I port on front panel One VGA, eDP and DVI routed to rear All graphics interfaces are independent channels Supports three independent displays Additional graphics MXM with ATI GPU or nVidia supporting two DVI ports on RTM (cPCI-R6500 series)
USB	Up to two USB 3.0 and one USB 2.0 ports on front panel Six USB 2.0 ports routed to rear
PS/2	PS/2 keyboard/mouse port to rear



Serial Port	Up to three 16C550 compatible serial ports One RJ-45 RS-232 port on front panel Two serial ports routed to rear
Audio	High Definition Audio signals routed to rear
Storage	One SATA 6Gb/s direct connector for 2.5" removable drive One mSATA socket Optional CFAST socket by replacing 2.5" SATA drive direct connector
RTM	Up to three SATA ports CF (x1) and SD (x1) sockets when mating with cPCI-R6100 series *Available interfaces dependent on RTM model selected
Operating System	Microsoft Windows 7/8 32, 64-bit Red Hat Enterprise Linux 6.4 Wind River VxWorks 6.9 (Please contact ADLINK for other OS support)
Miscellaneous	LED Power, WDT, Hard Disk, Hot Swap and Port 80 user LED Battery Coin cell lithium battery onboard for RTC CMOS RAM TPM Version 1.2 Atmel AT975C3204 (optional support upon request)
Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes
Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC voltages
Mechanical & Environmental	Form Factor 6U 4HP (single slot) CompactPCI 233.33mm x 160mm (LxW) Equipped with J1, J2, J3, J4, J5 connectors
Operating Temperature	-20°C to +70°C extended temperature -40°C to +85°C extreme extended temperature for Core™ i7 4700EQ CPU adjusted to 37W by cTDP)
Storage Temperature	-50°C to +100°C
RH Humidity	95% non-condensing
Shock	15G peak-to-peak, 11ms duration, non-operating
Vibration	2 Grms random vibration, 5-500Hz, each axis, operating
Power Consumption	2.73A @3.3V, 11.65A @5V, total 67.26W
Weight	500.2g (cPCI-6530 with heatsink assembled)
Safety & EMI	Certification CE/ FCC Class A

## I/O Table

		GbE	USB 2.0	USB 3.0	COM	DVI	VGA	PMC/XMC	SATA	CFast	CF	mSATA	Mic-in	Line-out	PS/2 KB/MS	SD	SAS
cPCI-6530(BL)	Faceplate Onboard	2	1	1				2	1 (7-pin)			1					
cPCI-6530(BLV)	Faceplate Onboard	2	1	2	1 (RJ-45)	DVI-I		1	2	1 <sup>(1)</sup>		1					
cPCI-R6002	Faceplate Onboard	2	2		1	1 (VGA signal only)			2 (7-pin)								
cPCI-R6002D	Faceplate Onboard	2	4		1	1 (VGA signal only)							1	1	1		
	Onboard								3 (2x 7-pin+1x 2.5" sapce) <sup>(2)</sup>								
cPCI-R6100	Faceplate Onboard	4	4		1 (RJ-45)	1	1		2 (7-pin)		1				1		1
cPCI-R6110	Faceplate Onboard	2	4				1		3 <sup>(2)</sup>		1 <sup>(4)</sup>				1		
cPCI-R65N0	Faceplate Onboard	2	1		1	2			3 (7-pin)				1 (10-pin)	1 (10-pin)	1		
cPCI-R6120	Faceplate Onboard	2	4				1(VGA only)								1		
	Onboard								2 (2.5" SATA drive onboard)								
cPCI-R6500	Faceplate Onboard	2	1			DVI-I DVI-D			3(7-pin)								
	Faceplate Onboard	2	1			DVI-I DVI-D											
cPCI-R6500D	Onboard		1 (10-pin header)		1 (Full, 10-pin header) 1(TX/RX, 10-pin header)				3 (2x 7-pin+1x 2.5" space) <sup>(4)</sup>				1 (10-pin header)		1 (10-pin header)		
cPCI-R6501D	Faceplate Onboard	2	2		1	DVI-I DVI-D									1		
	Onboard				1 (TX/RX, 10-pin header)				3 (7-pin)								

(1) Removable adapter design. SATA adapter by default, can be replaced with CFast adapter

(2) Two 7-pin signal connectors onboard for external HDDs and one direct connector for onboard 2.5" SATA drive. SATA direct connector can be replaced with CompactFlash adapter (DB-6920CF)

## Ordering Information

### Processor Blades

cPCI-6530BL/5700E/M8-0	4HP cPCI-6530BLV with Intel® Core™ i7-5850EQ and 8GB DDR3L-1600 ECC soldered memory with 2x GbE, 1x USB 2.0, 2x USB 3.0, 1x RJ-45 COM and single PMC/XMC site
cPCI-6530BLV/5700E/M8-0	4HP cPCI-6530BLV with Intel® Core™ i7-5700EQ and 8GB DDR3L-1600 ECC soldered memory with 2x GbE, 1x USB 2.0, 2x USB 3.0, 1x RJ-45 COM and single PMC/XMC site
cPCI-6530/4700E/M4-4	4HP cPCI-6530 with Intel® Core™ i7-4700EQ and 4GB DDR3L-1600 ECC soldered memory and 4GB SODIMM module with 2x GbE, 1x USB 2.0, 1x USB 3.0 and dual PMC/XMC sites
cPCI-6530V/4700E/M4-4	4HP cPCI-6530V with Intel® Core™ i7-4700EQ and 4GB DDR3L-1600 ECC soldered memory and 4GB SODIMM module with 2x GbE, 1x USB 2.0, 2x USB 3.0, 1x RJ-45 COM and single PMC/XMC site
cPCI-6530V/4402E/M4-0	4HP cPCI-6530V with Intel® Core™ i5-4402E and 4GB DDR3L-1600 ECC soldered memory with 2x GbE, 1x USB 2.0, 2x USB 3.0, 1x RJ-45 COM and single PMC/XMC site
cPCI-6530V/4700E/M8-8	cPCI-6530 with Intel® Core™ i7-4700EQ and 8GB DDR3L-1600 ECC soldered memory and 8GB SODIMM module with 2x GbE, 1x USB 2.0, 2x USB 3.0 and single PMC/XMC site

Contact us for different CPU, memory options.

### Rear Transition Modules

cPCI-R6002	4HP Rear I/O module with GbE x2, COM x2, USB x3, SATA x2, DVI-I
cPCI-R6100	4HP Rear I/O module with GbE x4, COM, USB x4, SATA x2, DVI, VGA, PS/2, CF, SD socket
cPCI-R6110	4HP Rear I/O module with GbE x2, COM, USB x4, SATA x3, DVI, VGA, PS/2, CF, SD socket
cPCI-R65N0	8HP Rear I/O module with NVIDIA GeForce GTX660M MXM 3.0 module, supports DVI-I, DVI-D, USB 2.0, 2x GbE, COM (RS-232/422/485), PS/2 KB/MS

See 6U RTM selection guide for more options.

### Accessory

DB-CFast	CFast socket adapter board with screws for cPCI-6530
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