Specifications

Processor & System

CPU
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 2560x1440 pixels @60Hz, DVI, VGA and HDMI interfaces are available by adapter cables (cPCI-3511(BL))

USB
Single USB 3.0 port on front panel, and up to three USB ports on front panel on selected SKU's
Three USB ports to rear, two on RTM panel

Audio
Line-in and Line-out ports on front panel (cPCI-3511(BL))

PS/2
Keyboard/Mouse on cPCI-3511(BL) and cPCI-3511(LB)

Storage

Blade
One SATA 6 Gb/s direct connector for 2.5” onboard HDD (BHP 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™ i7-5700EQ 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, 1 ms 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

http://www.adlinktech.com/cPCI/
## I/O Table

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Faceplate</th>
<th>USB</th>
<th>COM</th>
<th>Display</th>
<th>PS/2 KB/MS</th>
<th>Storage</th>
<th>Onboard SSD</th>
<th>Audio</th>
<th>PMC/XMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>cPCI-3511(BL) (4HP)</td>
<td>2 (RJ-45)</td>
<td>1</td>
<td>(3.0)</td>
<td>1 (DVI-I)</td>
<td>1</td>
<td>1 (Fast)</td>
<td>optional(1)</td>
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<tr>
<td>cPCI-3511(BLD) (8HP)</td>
<td>2 (RJ-45)</td>
<td>1</td>
<td>(3.0)</td>
<td>1 (DVI-I)</td>
<td>1</td>
<td>1</td>
<td>optional(1)</td>
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<tr>
<td>cPCI-3511(BLG) (8HP)</td>
<td>2 (RJ-45)</td>
<td>1</td>
<td>(3.0)</td>
<td>1 (DVI-I)</td>
<td>1</td>
<td>1</td>
<td>optional(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cPCI-3511D/4700E/M8/S32</td>
<td>1 (10-pin)</td>
<td>1</td>
<td>(3.0)</td>
<td>1 (DVI-I)</td>
<td>1</td>
<td>1 (Fast)</td>
<td>optional(1)</td>
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</tr>
<tr>
<td>cPCI-3511D/4700E/4M</td>
<td>1 (10-pin)</td>
<td>1</td>
<td>(3.0)</td>
<td>1 (DVI-I)</td>
<td>1</td>
<td>1 (Fast)</td>
<td>optional(1)</td>
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<td></td>
</tr>
<tr>
<td>cPCI-R3P00(T)</td>
<td>2 (RJ-45)</td>
<td>2</td>
<td>(2.0)</td>
<td>1 (DB9)</td>
<td>1 (VGA)(1)</td>
<td>3 (SATA)</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

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## Ordering Information

### Model Number

<table>
<thead>
<tr>
<th>Processor Blades</th>
<th>Description/Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>cPCI-3511BL/5700E/M16/S32 (available by request)</td>
<td>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 on-board 32GB SSD</td>
</tr>
<tr>
<td>cPCI-3511/4700E/M8/S32 (available by request)</td>
<td>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, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector</td>
</tr>
<tr>
<td>cPCI-3511BLD/5700E/M16 (available by request)</td>
<td>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</td>
</tr>
<tr>
<td>cPCI-3511D/4700E/M4 (available by request)</td>
<td>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</td>
</tr>
<tr>
<td>cPCI-3511BLG/5700E/M16 (available by request)</td>
<td>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</td>
</tr>
<tr>
<td>cPCI-3511LG/4700E/M4 (available by request)</td>
<td>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</td>
</tr>
<tr>
<td>cPCI-3511L/4700E/M4 (available by request)</td>
<td>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</td>
</tr>
<tr>
<td>cPCI-R3P00(T)</td>
<td>8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 50mm depth</td>
</tr>
<tr>
<td>cPCI-R3P00</td>
<td>8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 80mm depth</td>
</tr>
</tbody>
</table>

### Rear Transition Module

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cPCI-R3P00</td>
<td>8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 50mm depth</td>
</tr>
<tr>
<td>cPCI-R3P00T</td>
<td>8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 80mm depth</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SATA drive installation kit</td>
<td>2.5&quot; SATA drive installation package including bracket, screws</td>
</tr>
<tr>
<td>Y-cable for keyboard &amp; mouse</td>
<td>Y-cable for keyboard &amp; mouse and 200mm in cable length</td>
</tr>
<tr>
<td>DisplayPort to DVI cable</td>
<td>DisplayPort to DVI adapter cable with 150mm cable length (one is included in cPCI-3511BLG package by default)</td>
</tr>
<tr>
<td>DisplayPort to VGA cable</td>
<td>DisplayPort to VGA adapter cable with 150mm cable length</td>
</tr>
<tr>
<td>DisplayPort to HDMI cable</td>
<td>DisplayPort to HDMI adapter cable with 150mm cable length</td>
</tr>
<tr>
<td>RJ-45 to DB9 cable</td>
<td>RJ-45 to DB9 COM adapter and 200mm in cable length</td>
</tr>
<tr>
<td>SCSI 100p to I/O cable (available by request)</td>
<td>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</td>
</tr>
</tbody>
</table>

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

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