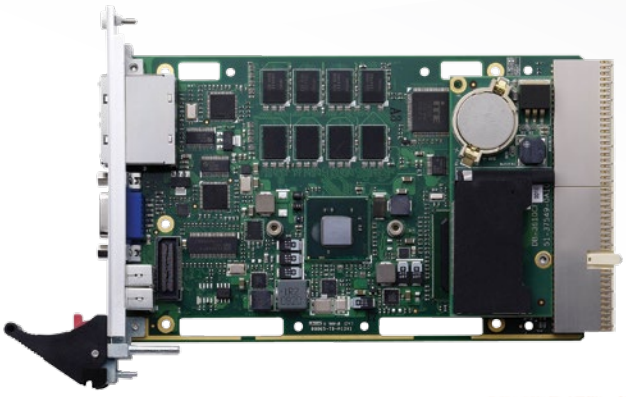
cPCI-3615 Series

3U CompactPCI® Dual-Core Intel® Atom™ Entry Level Processor Blade



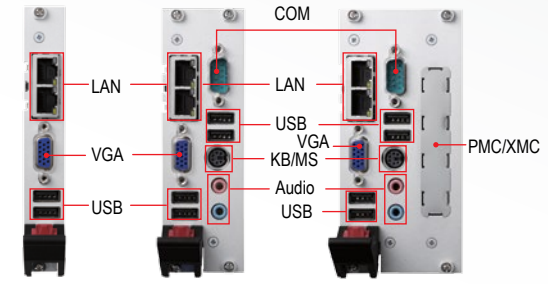
EN50155 Compliance

CompactPCI®

EXTENDED TEMPERATURE

Features

- Supports dual-core Intel® Atom™ D525
- Up to 4GB DDR3-800 soldered memory
- Fanless operation with Atom™ N455
- Optional PMC/XMC site
- Up to QXGA 2048x1536 RGB display



Specifications

Processor & System

CPU	µFC-BGA Intel® Atom™ Processor N455 1.66GHz, 512KB L2 cache, TDP 6.5W
	µFC-BGA dual-core Intel® Atom™ Processor D525 1.8GHz, 1MB L2 cache, TDP 13W
Chipset	Intel® ICH8M I/O Controller Hub
Memory	Single channel DDR3-800 SDRAM soldered onboard, up to 2GB for N455 processor, 4GB for D525 processor
BIOS	AMIBIOS®8, 16Mbit SPI flash memory
CompactPCI Bus	PCI 32-bit/33 MHz, 3.3V or 5V universal V (I/O)
	Host only
PICMG Standards	PICMG® 2.0 CompactPCI® R3.0
	PICMG® 2.1 Hot Swap R2.0

Connectivity

PMC/XMC	One optional PCI 32-bit/66 MHz PMC site or PCI-E x1 XMC site on 2nd or 3rd layer
Ethernet	Two PCI-E Intel® 82574L Gigabit Ethernet controllers
	Two 10/100/1000BASE-T front panel ports, switchable to rear
Graphics	Integrated in Intel® Atom™ processor
	DB-15 VGA port on front panel, switchable to rear
	Analog monitor support up to QXGA 2048x1536 pixels @60Hz, 32-bit
USB	Up to four USB 2.0 front panel ports
	One USB port on RTM
PS/2	Front panel PS/2 KB/MS port*
Serial Port	Three RS-232/422/485/485+ selectable serial ports
	One DB-9 port on front panel*, two on rear
Audio	Line-in and line-out ports on front panel*
PCI-Express	One PCI-Express lane to J2
GPIO	Four GPIO pins to J2

Storage

SBC	One Serial ATA direct connector for 2.5" onboard HDD*
	CompactFlash socket
RTM	Two 7-pin SATA signal connectors

*Note: 8HP & 12HP versions only.

Operating System

OS	Microsoft Windows® XP Professional, x64 Edition
	Microsoft Windows® 7
	Fedora™ 8, 12
	Red Hat Enterprise Linux 5.3
	Wind River VxWorks 6.8, 6.6, 5.5.1
	(Please contact ADLINK for other OS support)

Miscellaneous

LED	Power (green), WDT (red)
Battery	Coin cell lithium battery onboard for RTC CMOS RAM
Watchdog Timer	System Reset and NMI, with programmable interval, 1-65535 seconds or minutes
Hardware Monitor	Monitors CPU temperature, system temperature and DC voltages

Mechanical & Environmental

Form Factor	3U 4HP/8HP/12HP CompactPCI®
	100mm x 160mm (LxW)
Operating Temperature	0°C to +60°C
	-20°C to +70°C extended temperature (cPCI-ET3615)
	-40°C to +85°C extreme extended temperature (cPCI-EX3615)
Storage Temperature	-40°C to +85°C
Rel. 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	Atom™ D525 1.8GHz, 4GB soldered DDR3-800 memory under Windows® XP with 100% CPU loading

	Current(A)	Power(W)
5V	3.48	17.4
Total		17.4

Weight	Net weight 466g (8HP dual slot version with heatsink)
Certifications	CE/ FCC

I/O Table

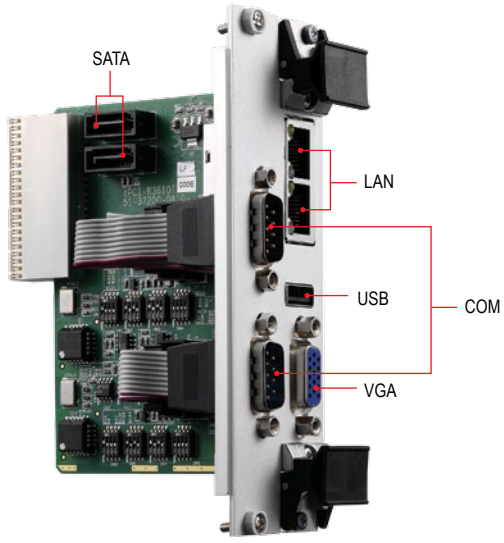
		GbE	USB 2.0	COM	VGA	PS/2 KB/MS	SATA	CF	Line-in	Line-out	PMC/ XMC
SBC											
cPCI-3615	**Faceplate**	2	2		1						
	Onboard							1			
cPCI-3615D	**Faceplate**	2	4	1	1	1			1	1	
	Onboard						1 (for 2.5" HDD)	1			
RTM											
cPCI-R3610(T)	**Faceplate**	2(1)	1	2	1(1)						
	Onboard						2 (7-pin)				

(1) Switchable to front or rear by software selection.

Ordering Information

Model Number	Description/Configuration
Processor Blades	
cPCI-3615D/N455/M2G	2-slot (8HP) 3U CompactPCI® blade with Intel® Atom™ processor N455 and 2GB DDR3-800 soldered memory
cPCI-3615/D525/M2G	1-slot (4HP) 3U CompactPCI® blade with Intel® Atom™ processor D525 and 2GB DDR3-800 soldered memory
cPCI-3615D/D525/M4G	2-slot (8HP) 3U CompactPCI® blade with Intel® Atom™ Processor D525 and 4GB DDR3-800 soldered memory
cPCI-EX3615D/D525/M4G	-40˚C to 85˚C screened cPCI-3615D/D525/ M4G
cPCI-ET3615D/D525/M2G	-20˚C to 70˚C screened cPCI-3615D/D525/ M4G
cPCI-3615L/D525/M2G	2-slot (8HP) 3U CompactPCI blade with Intel® Atom™ processor D525 and 2GB DDR3-800 soldered memory, supports 4x GbE, VGA, 3x USB, COM
Rear Transition Modules	
cPCI-R3610	8HP Rear I/O module for cPCI-3615 with GbE x2,COM x2, USB x1, SATA x2, VGA, 50mm depth
cPCI-R3610T	8HP Rear I/O module for cPCI-3615 with GbE x2,COM x2, USB x1, SATA x2, VGA, 80mm depth

Contact your ADLINK representative for different CPU, memory combinations.



cPCI-R3610T

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