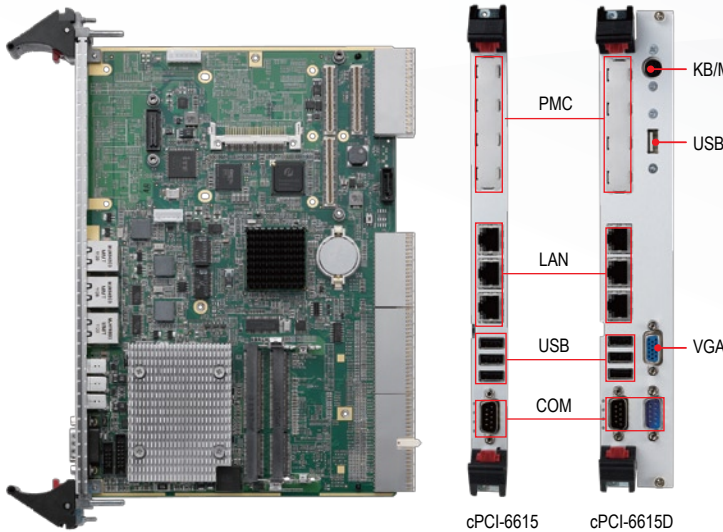


# cPCI-6615 Series

6U CompactPCI Intel® Atom™ Processor D525 Host Blade



## Features

- Dual-core Intel® Atom™ processor D525 1.8GHz
- Up to 4GB DDR3-800 via SO-DIMM
- Up to three Gigabit Ethernet egress ports
- Up to two SATA interfaces and one CompactFlash socket onboard
- PCI-X 64-bit/133MHz PMC slot

**CompactPCI®**



## Specifications

### Processor System

CPU	µFC-BGA Intel® Atom™ processor D525 1.8GHz, 1MB L2 cache, 13W TDP Passive heatsink
Chipset	Intel® ICH8M I/O Controller Hub
Memory	Single channel unbuffered DDR3-800 SDRAM Two SO-DIMM sockets, up to 4GB
BIOS	AMIBIOS® 64Mbit SPI flash memory
CompactPCI Bus	PCI 32-bit/33MHz, 3.3V or 5V universal V(I/O) Supports operation in system slot only
PICMG Standards	PICMG 2.0 CompactPCI R3.0 PICMG 2.1 Hot Swap R2.0 PICMG 2.16 Packet Switch Backplane R1.0

### Connectivity

PMC	One PCI-X 64-bit/133MHz PMC site, shares same space as 2.5" SATA drive
Ethernet	Three PCI-Express Intel® 82583V Gigabit Ethernet controllers for three 10/100/1000BASE-T ports Three RJ-45 ports on front panel; two are switchable to J3 for PICMG 2.16
Graphics	Integrated in Intel® Atom processor One VGA pin header on board, switchable to RTM; front panel VGA port available in 8HP version Analog monitor support up to QXGA 2048x1536 pixels@60Hz, 32-bit
USB	Up to four USB 2.0 front panel ports Six USB ports routed to rear
PS/2	Front panel PS/2 Keyboard/Mouse port (8HP version only) One KB/MS routed to RTM
Serial Port	One RS-232/422/485 port One addition RS-232 only for 8HP version Additional two serial ports routed to rear
Audio	High Definition Audio signals routed to rear

### Storage

SBC	One SATA direct connector for 2.5" onboard HDD One SATA connector (7-pin) on board and one SATA routed to rear Onboard CompactFlash socket
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RTM\* One SATA port

\*Available interfaces dependent on RTM model selected

### Operating System

OS	Microsoft Windows® XP Microsoft Windows® 7 32/64-bit Red Hat Enterprise Linux 6 Wind River VxWorks 6.8 (Please contact ADLINK for other OS support)
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### Miscellaneous

LED	Power, WDT, Hard Disk, 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 seconds or minutes
Hardware Monitor	Monitors CPU temperature, system temperature, Vcore and DC voltages

### Mechanical & Environmental

Form Factor	6U 4HP/8HP CompactPCI 233.33mm x 160mm (LxW) cPCI-6615: equipped with CompactPCI connectors J1, J2, J3, J5 cPCI-6615D: equipped with CompactPCI connectors J1, J2, J3, J5	
Operating Temperature	0 to 60 °C -20 to 85 °C extended temperature (cPCI-ET6615 model)	
Storage Temperature	-40 to 85 °C	
RH Humidity	95% non-condensing	
Shock	15G peak-to-peak, 11ms duration, non-operating	
Vibration	2 Grms random vibration between 5-500Hz in 3 axis	
Power Consumption	Atom™ D525 1.8GHz, 4GB SODIMM under Windows® XP with 100% CPU loading	
	Current (A)	Power (W)
	5V	3.6 18.34
	Total	18.34
Weight	Net weight 366g with heatsink	
EMI/EMC	EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3	

## I/O Table

		GbE	USB 2.0	COM	VGA	PMC	SATA	CF
<b>SBC</b>								
cPCI-6615	Faceplate	3	3	1 <sup>(1)</sup>				
	Onboard		1	1	1	1 <sup>(3)</sup>	2 <sup>(4)</sup>	1
cPCI-6615D	Faceplate	3	4	2 <sup>(2)</sup>	1			
	Onboard					1 <sup>(3)</sup>	2 <sup>(4)</sup>	1
<b>RTM</b>								
cPCI-R6002	Faceplate	2	2	1 (DB-9)	1			
	Onboard		1 (5-pin)	1 <sup>(5)</sup> (10-pin)			1 (7-pin)	

(1) RS-232/422/485 selectable

(2) One RS-232/422/485 selectable port and one RS-232 port

(3) PMC site shares the same space as onboard 2.5" SATA HDD, cannot be installed simultaneously

(4) One for onboard 2.5" SATA, one 7-pin connector

(5) Tx, Rx signals only

## Ordering Information

Model Number	Description/Configuration
<b>Processor Blades</b>	
cPCI-6615/D525/M2G	4HP cPCI-6615 with Intel® Atom processor D525 and 2GB DDR3-800 SODIMM with GbE x3, COM, USB x3, VGA header, SATA x2, CF, PMC
cPCI-6615/D525/M4G	4HP cPCI-6615 with Intel® Atom processor D525 and 2x2GB DDR3-800 SODIMM with GbE x3, COM, USB x3, VGA header, SATA x2, CF, PMC
cPCI-6615D/D525/M2G	8HP cPCI-6615D with Intel® Atom processor D525 and 2GB DDR3-800 SODIMM with GbE x3, COM x2, VGA, USB x4, SATA x2, CF, PMC, PS2
cPCI-ET6615/D525/M4G	4HP cPCI-6615/D525/M4G with extended operating temperature -20°C to 85°C
<b>Rear Transition Modules</b>	
cPCI-R6002	4HP Rear I/O module with GbE x2, COM x2, USB x3, SATA x1, VGA

Contact your ADLINK representative for different CPU, memory and HDD combinations.

