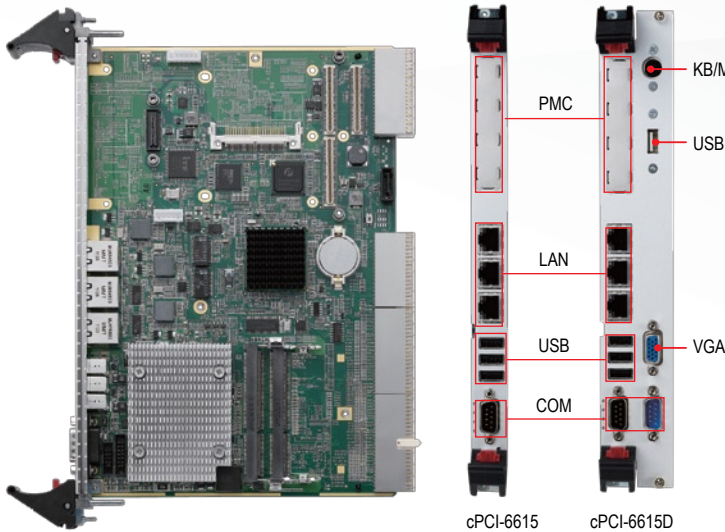


cPCI-6615 Series

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
SBC								
cPCI-6615	Faceplate	3	3	1 ⁽¹⁾				
	Onboard		1	1	1	1 ⁽³⁾	2 ⁽⁴⁾	1
cPCI-6615D	Faceplate	3	4	2 ⁽²⁾	1			
	Onboard					1 ⁽³⁾	2 ⁽⁴⁾	1
RTM								
cPCI-R6002	Faceplate	2	2	1 (DB-9)	1			
	Onboard		1 (5-pin)	1 ⁽⁵⁾ (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
Processor Blades	
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
Rear Transition Modules	
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.

