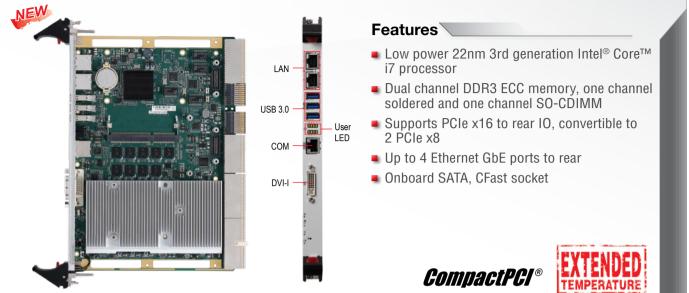
cPCI-6525 Series

6U CompactPCI 3rd Gen Intel[®] Core™ i7 Processor Blade with PCIe x16 to Rear IO



Specifications

Processor & System

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CPU	µFC-BGA quad-core Intel [®] Core™ i7-3615QE processor, 2.3GHz, 6MB L3 cache, 45W TDP	
	µFC-BGA quad-core Intel [®] Core™ i7-3612QE processor, 2.1GHz, 6MB L3 cache, 35W TDP	
	Passive heatsink	
Chipset	Intel [®] QM77 PCH	
Memory	Dual channel DDR3-1600 SDRAM with ECC, up to 16GB	
	One channel in SO-CDIMM socket up to 8GB; one channel soldered onboard up to 8GB (dependent on availability of memory modules and chips)	
BIOS	AMI [®] EFI BIOS, 64Mbit SPI flash memory	
CompactPCI Bus	PCI 32/64-bit, 33/66MHz, 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 2.16 Packet Switch Backplane R1.0	
Connectivity		

Ethernet	Four Intel [®] 82574IT GbE controllers
	Two 10/100/1000BASE-T ports on front panel, switchable to rear
	Two 10/100/1000BASE-T ports to J3 for PICMG 2.16
Graphics	Integrated in Intel [®] processor
	One DVI-I on front panel with RGB signal switchable to rear
	Two DVI to rear
USB	Three USB 3.0 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 four 16C550 compatible serial ports
	One DB-9 RS-232/422/485 serial port on front panel
	One RS-232/422/485 to rear and additional two Tx/Rx to rear
Audio	High Definition Audio signals routed to rear



Storage

SBC	One SATA 6 Gb/s direct connector for 2.5" onboard drive				
	One CFast socket via adapter board				
RTM*	Up to three SATA ports				
	Support PCIe x16 to J4, PCIe x4 to J5				
	Eight SAS ports supporting hardware RAID via two mini-SAS x4 connectors (cPCI-R66S0)				
	Optional MXM slot supporting NVIDIA MXM (cPCI-R66G0, cPCI-R66N0)				
	*Available interfaces dependent on RTM model selected				
Operating Sys	tem				
OS	Windows XP 32-bit, Windows 7 32/64-bit				
	Red Hat Enterprise Linux 6.5 and higher				
	Fedora 20				
	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	Atmel AT97SC3204 (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, J5 connectors				
Operating Temperature	0°C to +60°C standard				
	-20°C to +70°C extended temperature (cPCI-ET6525)				
Storage Temperature	-40°C to 85°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				
EMI/EMC	EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3				

I/O Table

		GbE	USB	СОМ	Display	SATA	CFast	Audio	PS/2 KB/MS	SAS
cPCI-6525	Faceplate	2	3 (3.0)	1 (RJ-45)	1 (DVI-I)					
	Onboard					1	1			
cPCI-R66G0	Faceplate	2	1		4 (DVI-I, 3x DVI-D)			1 (Mic-in, Line-out)		
	Onboard	2	1 ⁽³⁾	1(2)		3			1	
cPCI-R66N0	Faceplate	2 + 2x M12	1	1	2 (DVI-I, DVI-D)			M12 x1	M12 x1	
	Onboard		1 (3)	1 (2)		3		1		
						(7-pin)		(10-pin)		
cPCI-R66S0	Faceplate	4(1)	3 (2.0)	1	2 (DVI-D)			1 (Mic-in, Line-out)	1	4 (SFF-8088)
	Onboard			1 (2)		3				4
				(10-pin)		(7-pin)				(SFF-8087

Two LAN ports switched from front panel.
One 10-pin header convert 2x Tx/Rx signals.
One 10-pin header convert 2x USB 2.0 signals.

Ordering Information

Model Number	Description/Configuration				
Processor Blades					
cPCI-6525/3615Q/M8-0	6U 4HP cPCI-6525 with Intel [®] Core [™] i7-3615QE processor and 8GB DDR3-1333 soldered memory with 2x GbE, 3x USB 3.0, COM, DVI-I, SATA. Cfast, PCIEx16 to rear				
Rear Transition Modules					
cPCI-R66G0	6U 8HP Rear I/O module with DVI-I, DVI-D x3, GbE x2, USB, PS/2 KB/MS, audio, MXM slot w/o MXM module				
cPCI-R66N0	6U 8HP Rear I/O module with RJ-45 GbE x2, M12 GbE x2, M12 audio, M12 KB/MS, DVI-I, DVI-D, COM, MXM slot w/o MXM module				
cPCI-R66S0	6U 8HP Rear I/O module with GbE x4, COM, SAS x8, DVI-D x2, USB x3, PS/2, Audio				
Accessories					
cPCI-R66X0/NV960	NVIDA M960 MXM module kit				
Contact your ADLINK representat	tive for different CPU, memory and storage combinations.				



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