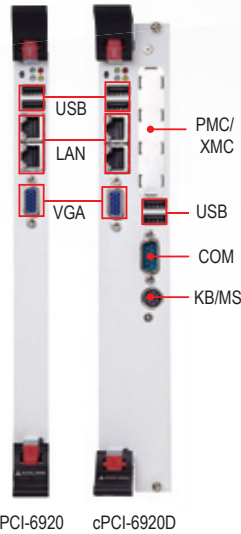
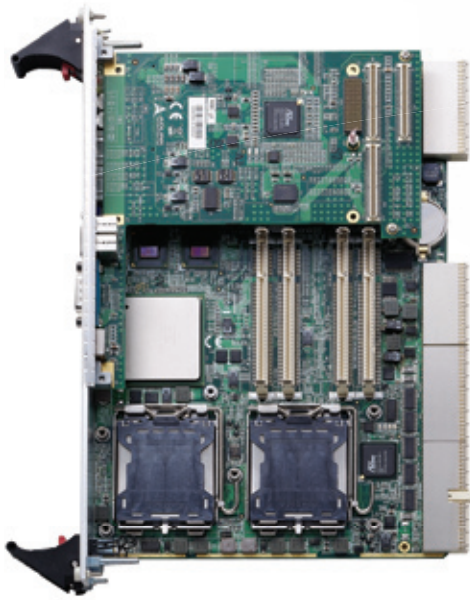


cPCI-6920 Series

6U CompactPCI® Dual Quad-Core Intel® Xeon® Processor Blade

6U cPCI SBC



Features

- 2x Quad-Core/Dual-Core Intel® Xeon® LV Processors
- Four SO-RDIMMs for up to 16GB REG/ECC memory
- Four PCI-Express Gigabit Ethernet ports
- 64bit/66MHz PMC/PCI-Express x8 XMC
- Onboard SATA HDD, CompactFlash and USB NAND flash storage

Specifications

Processor & System

CPU	FC-LGA771 Quad-Core Intel® Xeon® Processor 2.13GHz (L5408), 12MB L2 cache, 1066MHz FSB FC-LGA771 Dual-Core Intel® Xeon® Processor LV 2.13GHz (5138), 4MB L2 cache, 1066MHz FSB Passive heatsink
Chipset	Intel® 5100 MCH and ICH9R I/O Controller Hub
RAM	Dual channel DDR2-667 registered memory with ECC, up to 16GB 4HP: Two 200-pin SO-RDIMM sockets 8HP: Four 200-pin SO-RDIMM sockets
BIOS	AMI legacy BIOS, 16Mbit SPI flash memory
CompactPCI Bus	64bit/66MHz CompactPCI® Bus, V(I/O) 3.3V only Supports operation in system slot as system master or in peripheral slot as stand-alone server blade without connectivity to CompactPCI® bus
PICMG standard	PICMG® 2.0 CompactPCI® R3.0 PICMG® 2.1 Hot Swap R2.0 PICMG® 2.9 System Management v.1.5 R1.0 PICMG® 2.16 Packet Switch Backplane R1.0

Connectivity

PMC/XMC	PCI 64bit/66MHz PMC or PCI-Express x8 XMC site, 3.3V PCI signaling (8HP version only)
Ethernet	Two PCI-Express Intel® 82571EB dual port Gigabit Ethernet controllers Two 10/100/1000BASE-T front panel ports Two 10/100/1000BASE-T PICMG® 2.16 ports
Graphics	AMD ATI ES1000 on PCI 32bit/33MHz bus DDR2-533 64MB Graphics Memory Analog RGB up to 32bit 1600x1200@60Hz refresh rate DB-15 VGA port on front panel and rear panel, mirror display
USB	Maximum up to four USB 2.0 ports on front panel Six USB 2.0 ports routed to rear

PS/2	One PS/2 Keyboard/Mouse Combo port on front panel or rear panel (8HP version only)
Serial Port	One DB-9 16C550 compatible RS-232 port on front panel (8HP version only) Two serial ports are routed to rear

Storage

SBC	Built-in 4GB USB NAND flash onboard Removable CompactFlash socket onboard Optional SATA port for 2.5" HDD direct mounting
RTM	Two onboard 7-pin connectors for external SATA hard drives One SATA port for 2.5" onboard SATA HDD (8HP version only) Optional CompactFlash slot onboard (8HP version only) One internal and one external 68-pin SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller

Operating System

OS	Microsoft Windows® XP Professional Microsoft Windows® Server 2003 Fedora™ 8 Vxworks 6.6
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Miscellaneous

LED	Power, WDT, Hot Swap, Hard Disk
Battery	Coin cell Lithium Battery onboard for RTC CMOS RAM for BIOS configuration
WatchDog Timer	System Reset and NMI, with Programmable Interval, 1-255 sec or 1-255 min
Hardware Monitor	Monitoring of CPU temperature, system temperature, Vcore and DC voltages

Mechanical & Environmental

Form Factor	6U 4HP/ 8HP CompactPCI 233.33mm x 160mm (LxW)
Operating Temp.	0 to 55°C with forced air flow
Storage Temp.	-40 to 85°C
Rel. Humidity	90%@60°C (non-condensing)
Shock	15 G peak to peak, 11ms duration, non-operating
Vibration	1.88 Grms, 5-500 Hz, X,Y, Z axis, operating IEC68-2-64 standard

Power Consumption Single Quad-Core L5408, 4x 2GB SO-RDIMMs, 60GB SATA HDD onboard under Windows XP with 100% CPU loading

	Current(A)	Power(W)
5V	13.9	69.5
3.3V	11.9	39.3
Total		108.8

Safety & EMI

Certifications CE/FCC Class A

I/O Table

Function	cPCI-6920 (4HP)		cPCI-6920D (8HP)		cPCI-R6000-920 (4HP)		cPCI-R6000-920D (8HP)	
	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard	Face-plate	Onboard
Gigabit Ethernet	Y x2		Y x2		Y x2 (2.16)		Y x2 (2.16)	
COM 1			Y (DB-9)					
COM 2					Y (DB-9)		Y (DB-9)	
COM 3						Y (10-pin)		Y (10-pin)
USB 2.0	Y x2		Y x4		Y x2	Y (5-pin)	Y x4	Y (5-pin)
PMC/XMC			Y					
VGA	Y		Y		Y		Y	
Serial ATA		Optional ⁽¹⁾		Optional ⁽¹⁾		Y x2 (7-pin)		Y x3 ⁽²⁾
Compact Flash		Y		Y				Optional ⁽³⁾
PS/2 KB/MS			Y				Y	
USB Flash		Y		Y				
SCSI					Y	Y	Y	Y
GP LED	Y x4		Y x4					
Reset Button	Y		Y					

(1): Optional SATA HDD adapter kit (DB-SATA) for 2.5" SATA HDD onboard mounting. (2.5" HDD and CF share the same space and cannot be installed simultaneously)

(2): Two 7-pin SATA connectors for external HDDs and one connector for onboard 2.5" SATA HDD.

(3): Optional CF socket adapter kit (DB-CF-SA) for additional CF socket. (CF and 2.5" HDD share the same space and cannot be installed simultaneously)

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-6920	Single slot width (4HP) 6U Quad-Core/Dual-Core Xeon® processors SBC (without CPU & memory)
cPCI-6920D	Dual slot width (8HP) 6U Quad-Core/Dual-Core Xeon® processors SBC (without CPU & memory)
cPCI-6920/S408/M2G	4HP cPCI-6920 with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2GB SO-RDIMM
cPCI-6920/S408/M4G	4HP cPCI-6920 with 1 x Quad-Core LV Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM
cPCI-6920D/S408/M4G	8HP cPCI-6920D with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM
cPCI-6920D/D408/M8G	8HP cPCI-6920D with 2 x Quad-Core Xeon® 2.13GHz (L5408), 4x 2GB SO-RDIMM
cPCI-6920D/D138/M2G	8HP cPCI-6920D with 2 x Dual-Core Xeon® 2.13GHz (LV5138), 2GB SO-RDIMM
cPCI-6920D/S408/M4G/S80G	8HP cPCI-6920D with 1 x Quad-Core Xeon® 2.13GHz (L5408), 2x 2GB SO-RDIMM, 80GB SATA HDD (without CF socket)
Rear Transition Module	
cPCI-R6000-920	4HP Rear I/O module for cPCI-6920 series
cPCI-R6000-920D	8HP Rear I/O module for cPCI-6920 series
Mezzanine	
DB-CF-SA	CompactFlash socket adapter kit
DB-SATA	2.5" SATA HDD adapter kit

Contact your ADLINK representative for different CPU, memory combinations.

