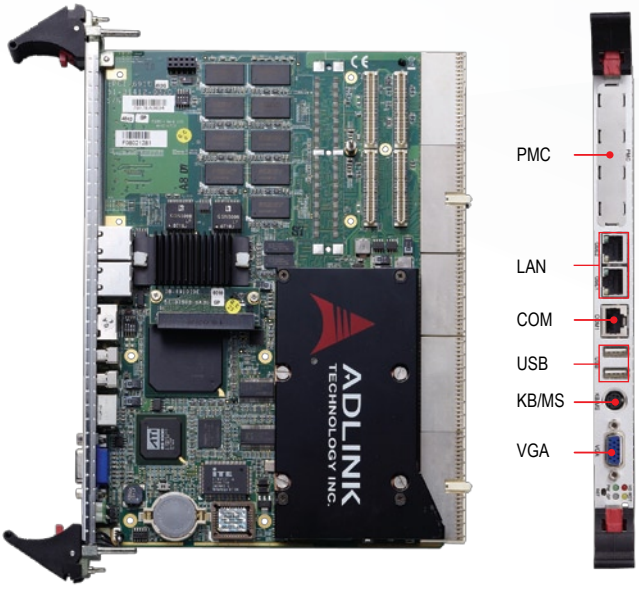
cPCI-6910 Series

6U CompactPCI® Dual-Core Intel® Xeon® Processor LV / ULV Universal Blade



Features

- Single Dual-Core Intel® Xeon® LV/ULV processor
- Soldered DDR2-400 REG/ECC memory
- Four PCI-Express Gigabit Ethernet ports
- One 64-bit/66 MHz PMC slot
- Multiple storage interfaces: Serial ATA, IDE, CF, Serial Attached SCSI, SCSI
- PICMG® 2.0, 2.1, 2.9, 2.16 compliant

EXTENDED TEMPERATURE

Specifications

Processor & System

CPU	Single Micro FCPGA Dual-Core Intel® Xeon® Processor in 65 nm process
	LV: 2.0 GHz, 667 MHz FSB, 2 MB L2 cache, 31W
	1.66 GHz, 667 MHz FSB, 2 MB L2 cache, 31 W
	ULV: 1.66 GHz, 667 MHz FSB, 2 MB L2 cache, 15 W
Chipset	Intel® E7520 with 6300ESB
RAM	Up to 2 GB soldered DDR2-400 registered SDRAM with ECC
BIOS	Award-Phoenix 4 Mb flash memory
CompactPCI Bus	64-bit/66 MHz CompactPCI® Bus, 3.3V or 5V universal V(I/O)
	Operation in system slot and peripheral slot with CompactPCI® bus connection
PICMG standard	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

PMC/XMC	One PMC slot on PCI 64-bit/66 MHz bus
Ethernet	Two PCI-Express Intel® 82571EB dual port GbE 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
	AMD ATI ES1000 GPU on SBC for front panel VGA output and XGI Z11 GPU on RTM cPCI-R6912 for VGA and DVI-D rear outputs
	Supports dual independent display with RTM cPCI-R6912
	Graphics features on SBC: - DDR2-533 64MB Graphics Memory - Analog RGB up to 32bit 1600x1200@60Hz refresh rate
	Graphics features on cPCI-R6912: - DDR2-400 32MB Graphics Memory - up to 1600x1200@70Hz 16M color - mirror display on VGA and DVI
USB	Two USB 2.0 ports on front panel and two on rear panel
PS/2	One PS/2 Keyboard Mouse Combo Port
Serial Port	One RJ-45 RS-232 port on front panel, one DB-15 RS-232 port on rear panel

Storage

SBC	SATA or IDE connector for 2.5" HDD direct mounting
	Optional CompactFlash slot
RTM	cPCI-R6910: - SATA or SAS connector for 2.5" HDD direct mounting - CompactFlash socket onboard
	cPCI-R6911: - 40-pin IDE connector for external HDD - CompactFlash slot on panel - 7-pin SATA connector for external HDD - 68-pin internal and external SCSI connector by LSI53C1020 SCSI Ultra320 single channel controller, support RAID 0/1
	cPCI-R6912: - CompactFlash slot on panel - 7-pin SATA connector for external HDD

Operating System

OS	Microsoft® Windows® 2000
	Microsoft® Windows® Server® 2003
	Microsoft® Windows® XP Professional
	Red Hat® Fedora™ Core 6
	Linux® AS 3 & 4

Miscellaneous

LED	Power, Hot swap, HDD, WDT
Battery	Coin cell lithium battery onboard for RTC CMOS RAM
Hardware Monitor	Monitoring of CPU temperature, fan speed, system temperature, Vcore and DC voltages
Watchdog Timer	Two stage, System Reset and NMI, with programmable interval, 0-255 min.

Mechanical & Environmental

Form Factor	6U 4HP (single slot) CompactPCI®
	233.33 mm x 160 mm (L x W)
Operating Temp.	0°C to +70°C with ULV processor
	0°C to +55°C with LV processor
	-20°C to +70°C extended temperature (optional)
Storage Temp.	-40°C to +80°C
Rel. Humidity	90% non-condensing
Shock	15 G peak-to-peak, 11 ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis
Power Consumption	cPCI-6910 with 2 MB SDRAM with 100% CPU loading
	40 W with ULV 1.66 GHz
	44 W with LV 1.66 GHz
	49 W with LV 2.0 GHz

Safety & EMI

Certifications	CE, FCC Class A

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I/O Table

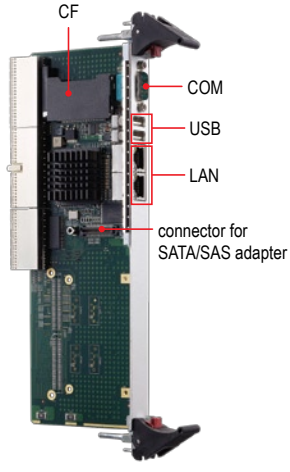
		Serial Port	USB	GbE	SCSI	PS/2 KB/MS	VGA	DVI	IDE	CF	SATA	SAS	PMC	GP LED	Reset Button
SBC															
cPCI-6910	**Faceplate**	1	2	2		1	1						1	1	1
	Onboard								1 (44-pin)*	1*	1*				
RTM															
cPCI-R6910	**Faceplate**	1 (J5)	2 (J5)	2 (J3) (2.16)								1 (J5)*			
	Onboard									1	1 (J5)*				
cPCI-R6911	**Faceplate**	1 (J5)	2 (J5)	2 (J3) (2.16)	1 (J3)					1					
	Onboard				1 (J3)				1 (J4, 40-pin)		1 (J5)				
cPCI-R6912	**Faceplate**	1 (J5)	2 (J5)	2 (J3) (2.16)			1	1		1					
	Onboard										1 (J5)				

*** Removable adapter design**
Note: cPCI-6910 will not function in peripheral slot with CT bus backplane (H.110)

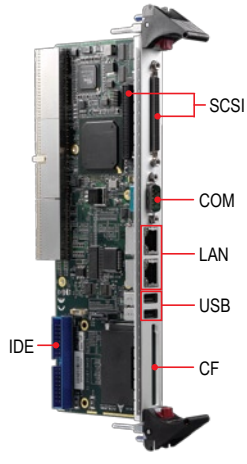
Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-6910/DCX20/M2G	6U cPCI Dual-Core Xeon® LV 2.0 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits
cPCI-6910/DCX20/M1G	6U cPCI Dual-Core Xeon® LV 2.0 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits
cPCI-6910/DCX16/M2G	6U cPCI Dual-Core Xeon® ULV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits
cPCI-6910/DCX16/M1G	6U cPCI Dual-Core Xeon® ULV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits
cPCI-6910/DXL16/M2G	6U cPCI Dual-Core Xeon® LV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits
cPCI-6910/DXL16/M1G	6U cPCI Dual-Core Xeon® LV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adapter kits

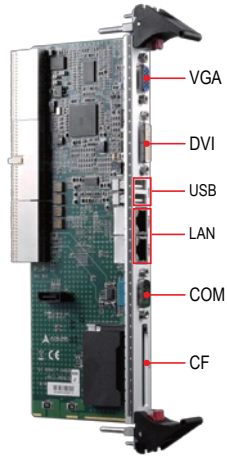
Rear Transition Module	
cPCI-R6910	6U cPCI Rear I/O Board for cPCI-6910 with SATA and SAS adapter kits
cPCI-R6911	6U cPCI Rear I/O Board for cPCI-6910 with two GbE, two USB, COM, SATA, CF, IDE and SCSI
cPCI-R6912	6U cPCI Rear I/O Board for cPCI-6910 with two GbE, two USB, COM, CF socket, VGA, DVI and SATA
Mezzanine	
DB-6910CF	CF adapter kit for cPCI-6910



cPCI-R6910



cPCI-R6911



cPCI-R6912

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