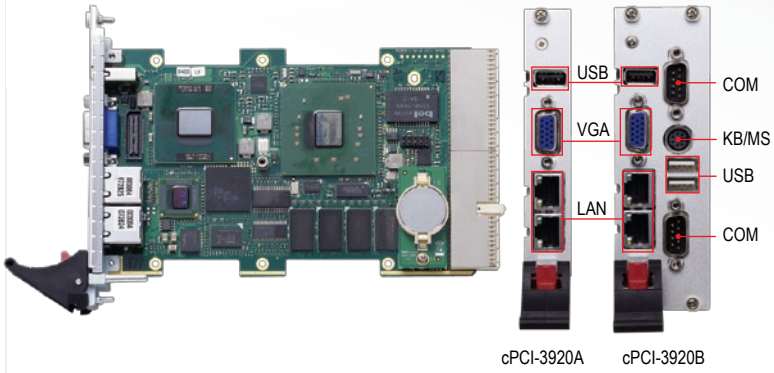
cPCI-3920 Series

3U CompactPCI® Intel® Core™2 Duo Processor Blade with 3100 Chipset



Features

- Low power Intel® Core™2 Duo and Core™ Duo processor
- Server class Intel® 3100 chipset
- DDR2-400 registered ECC soldered SDRAM
- Two PCI-Express® Gigabit Ethernet
- Supports USB 1.1/2.0 flash module and Serial ATA storage
- Three USB 2.0 and three serial ports

EXTENDED TEMPERATURE

Specifications

Processor & System

CPU	µFC-BGA Intel® Core™2 Duo LV (L7400) 1.5 GHz, 667 MHz FSB, 4 MB L2 cache
	µFC-BGA Intel® Core™ Duo ULV (U2500) 1.2 GHz, 533 MHz FSB, 2 MB L2 cache
	µFC-BGA Intel® Celeron® M Proc ULV (423) 1.07 GHz, 533 MHz FSB, 1 MB L2 cache
Chipset	Intel® 3100 (Memory Controller Hub + I/O Controller Hub)
RAM	Single-Channel DDR2-400 Registered ECC soldered onboard, up to 2GB
BIOS	AMIBIOS®8 16 Mbit FWH Flash Memory
CompactPCI Bus	32-bit/33 MHz CompactPCI® Bus, universal V(I/O)
PICMG Standards	PICMG® 2.0 CompactPCI® R3.0
	PICMG® 2.1 Hot Swap R2.0

Connectivity

Ethernet	Intel® PCI-Express® 82571EB dual port Ethernet controller
	Two front egress ports, switchable to RTM
Graphics	XGI Z11 PCI-E® x1 Graphics Controller
	64-bit 2D Accelerator
	Up to 1600 x 1200 at 70 Hz 16 M colors
USB	Up to three front panel USB ports
	Two USB ports on RTM
	9-pin header for horizontal USB NAND flash drive
PS/2	One PS/2 KB/MS Combo Port
Serial Port	Two DB-9 front panel ports, one is for RS-232, and the other one is selectable RS-232/422/485/485+ port
	Two RS-232 (Tx, Rx only) ports on RTM, one DB-9 connector on front panel, one 10-pin header onboard

Storage

SBC	Optional USB NAND flash drive, up to 8GB
	SATA port for 2.5" HDD direct mounting (8HP version only)
RTM	3x 7-pin SATA connectors for external HDD

Operating System

OS	Microsoft® Windows® XP
	Microsoft® Windows® Server 2003
	Microsoft® Windows® Vista Enterprise, 32-bit
	Fedora™ 8
	Wind River VxWorks 6.6

Miscellaneous

LED	Three LEDs: Power, WDT, CPU over temperature
Battery	Adapter designed coin cell lithium battery for RTC CMOS RAM
Hardware Monitor	Integrated in W83792AG, monitors CPU temperature, Vcore and DC voltages
Watchdog Timer	Integrated in Intel® 3100, two stage, system reset and NMI, with programmable interval, 1 ms to 1050 sec.

Mechanical & Environmental

Form Factor	3U 4HP/8HP CompactPCI®
	100mm x 160mm (LxW)
Operating Temp.	0°C to +60°C with external air flow
	-20°C to +70°C extended temperature (cPCI-ET3920)
Storage Temp.	-40°C to +85°C
Rel. Humidity	5% to 95% non-condensing
Shock	20G peak-to-peak, half sine, 11ms duration, operating
Vibration	2 Grms, 5-500 Hz, each axis in operating
Power Consumption	Core™2 Duo 1.5GHz (L7400), 1GB DDR2-400 soldered, under Windows® XP with 100% CPU loading

	Current (A)	Power (W)
3.3V	1.61	5.31
5V	6.02	30.10
Total		35.41

Weight	Net weight 461.5g in dual slot with heatsink

Safety & EMI

Certifications	CE, FCC Class A

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

I/O Table

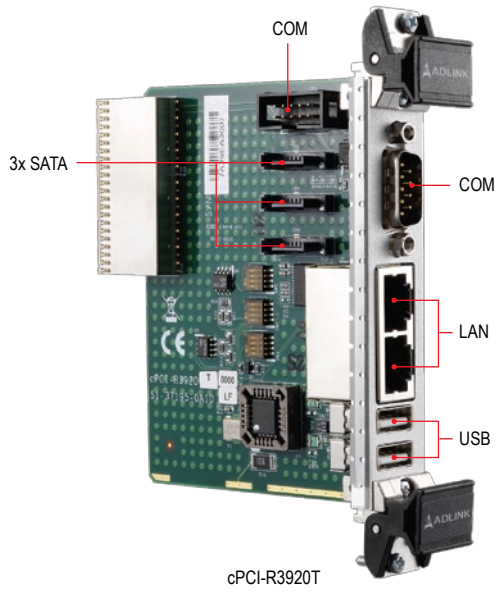
		GbE	USB	VGA	COM 3/4	COM 1	COM 2	SATA	PS/2 KB/MS	LED	Reset Button
SBC											
cPCI-3920A	**Faceplate**	2*	1	1						3	1
	Onboard		1 (9-pin)								
cPCI-3920B	**Faceplate**	2*	3	1	1 (DB-9)				1	3	1
	Onboard		1 (9-pin)					1 (for 2.5" HDD)			
RTM											
cPCI-R3920 (T)	**Faceplate**	2*	2			1 (DB-9)					
	Onboard						1 (10-pin)	3 (7-pin)			

Note* : Switchable to front or rear by software selection.

Ordering Information

Model Number	Description/Configuration
CPU Board	
cPCI-3920A/C2D15/M1G	Single-slot 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 512 MB soldered REG/ECC DDR2 SDRAM
cPCI-3920A/CM10/M1G	Single-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM
cPCI-3920B/C2D15/M1G	Dual-slot 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM
cPCI-3920B/CD12/M1G	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM
cPCI-3920B/CM10/M1G	Dual-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM
cPCI-3920B/C2D15/M2G	Dual-slot 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 2 GB soldered REG/ECC DDR2 SDRAM
cPCI-3920B/CD12/M2G	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 2 GB soldered REG/ECC DDR2 SDRAM
cPCI-ET3920B/C2D15/M1G	Dual-slot 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM, -20°C to +70°C operating
Rear Transition Module	
cPCI-R3920	Rear Transition Module for cPCI-3920, 50 mm depth
cPCI-R3920T	Rear Transition Module for cPCI-3920, 80 mm depth
Accessories	
SUSB-4GB	4GB Low Profile USB flash module kit

Contact us for more CPU, memory & HDD options.



cPCI-R3920T