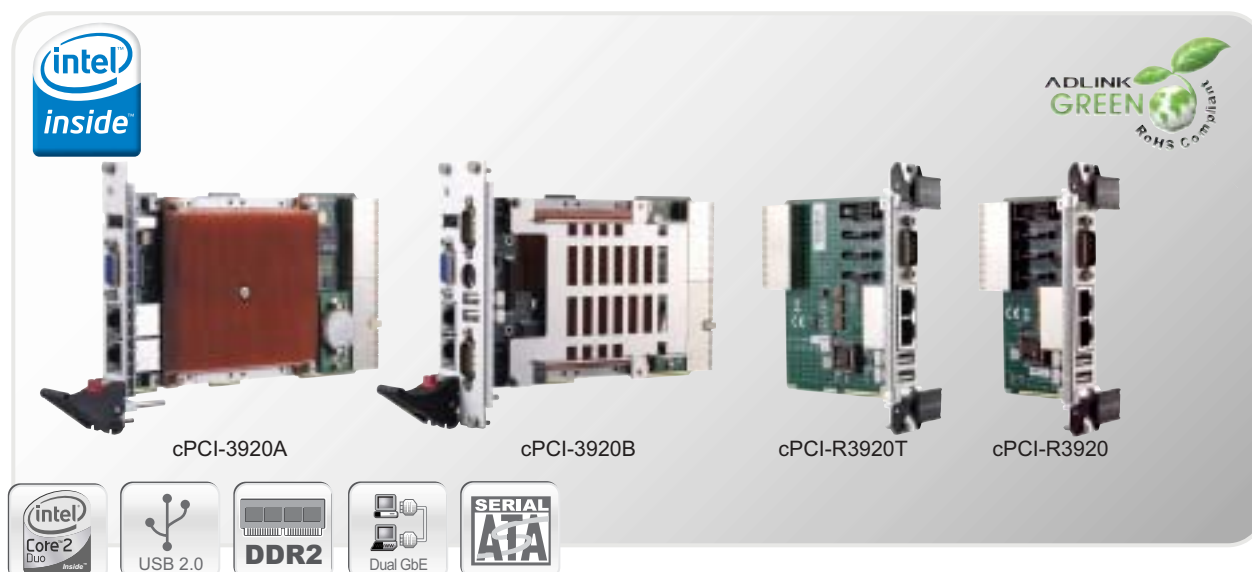


cPCI-3920 Series

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



Features

- Low power Intel® Core™ 2 Duo and Core™ Duo processor
- 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

Ordering Information

cPCI-3920A/C2D15/M512	Single-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CD12/M512	Single-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CM10/M512	Single-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/C2D15/M512	Dual-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CD12/M512	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CM10/M512	Dual-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/C2D15/M1G	Single-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 512 MB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CD12/M1G	Single-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920A/CM10/M1G	Single-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/C2D15/M1G	Dual-slot 3U CompactPCI® Core™ 2 Duo LV 1.5 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CD12/M1G	Dual-slot 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-3920B/CM10/M512	Dual-slot 3U CompactPCI® Celeron® M LV 1.0 GHz SBC with 1 GB soldered ECC/REG DDR2 SDRAM
cPCI-R3920	Rear Transition Module for cPCI-3920, 50 mm
cPCI-R3920T	Rear Transition Module for cPCI-3920, 80 mm

Specifications

CPU / Chipset / RAM

CPU & FTB	µFC-BGA Intel® Core™ 2 Duo LV (L7400) 1.5 GHz, FSB 667 MHz, 4 MB L2 cache µFC-BGA Intel® Core™ Duo (U2500) 1.2 GHz, FSB 533 MHz, 2 MB L2 cache µFC-BGA Intel® Celeron® M Proc LV (423) 1.07 GHz, FSB 533 MHz, 1 MB L2 cache
Chipset	Intel® 3100 (Memory Controller Hub + I/O Controller Hub)
RAM	Single-Channel DDR2-400 Registered ECC Soldered 512 MB or 1 GB, up to 2 GB (depends on chip process technology)

Bus

CompactPCI® Standards	PICMG® 2.0 R3.0, PICMG® 2.1 R2.0
CompactPCI® Bus	32-bit/33 MHz CompactPCI® Bus

BIOS

Chip	AMI 16 Mbit FWH Flash Memory
Features	Supports PXE Remote Boot Supports Intel® Speedstep® technology Supports boot from any boot device Serial Console

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I/O Interfaces

Display	XGI Z11 PCI-E®x1 Graphics Controller 64-bit 2D Accelerator Up to 1600 x 1200 at 70 NI 16 M colors
Ethernet	Intel® 82571EB Ethernet controller via PCI-E® x4 for two GbE ports on the front panel or on the rear panel by BIOS selection
USB	Four USB 2.0 channels USB 0 9-pin USB pin header, space reserved for horizontal USB flash module USB 1 USB port on front panel USB 2,3 two USB ports on the 2 nd layer of front panel or rear panel
Serial ATA	One SATA connector on board, 2.5" space reserved in 2 nd layer Three 7-pin SATA connectors on RTM
Serial Port	Front One RS-232, one selectable RS-232/422/485+ ports Rear One RS-232 port, one 10-pin header
KB/MS	One PS/2 KB/MS Combo Port

Other Features

Hardware Monitoring	Integrated in W83792AG, Monitoring CPU temperature, Vcore and DC voltages
LED	Three LEDs: Power, WDT, PROCHOT
Watchdog Timer	Integrated in Intel® 3100, Two stage, System Reset and NMI, with programmable interval, 1 ms to 1050 sec.
Operation Systems	Microsoft® Windows® XP, Red Hat® Linux® (other OS support please contact ADLINK for availability)
PCI Express®	One PCI-Express® x 4 or Four PCI-Express® x 1 are routed to J2 for IO expansion

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	cPCI-3920A: 100 mm x 160 mm (L x W), 1-slot (4HP) wide cPCI-3920B: 100 mm x 160 mm (LxW), 2-slot (8HP) wide
Operating Temp.	0°C to 60°C with external air flow Extended temperature optional
Storage Temp.	-40°C to 80°C
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
Certificate or Test	CE, FCC class A

Peripheral Connectivity

Function	cPCI-3920A		cPCI-3920B		cPCI-R3920	
	Face-plate	On-Board	Face-plate	On-Board	Face-plate	On-Board
GbE	Yx2*	--	Yx2*	--	Yx2*	--
USB port 0	--	Y (9-pin)	--	Y (9-pin)	--	--
USB port 1	Y	--	Y	--	--	--
USB port 2,3	--	--	Y	--	Y (optional)	--
VGA	Y	--	Y	--	--	--
COM1/2	--	--	Y(DB-9)	--	--	--
COM3	--	--	--	--	Y (DB-9)	--
COM4	--	--	--	--	--	Y (10-pin)
SATA	--	--	--	Y	--	Yx3
PS/2 KB/MS	--	--	Y	--	--	--
LED	Yx3	--	Yx3	--	--	--
Reset Button	Y	--	Y	--	--	--

Note: * Selected by BIOS setting

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