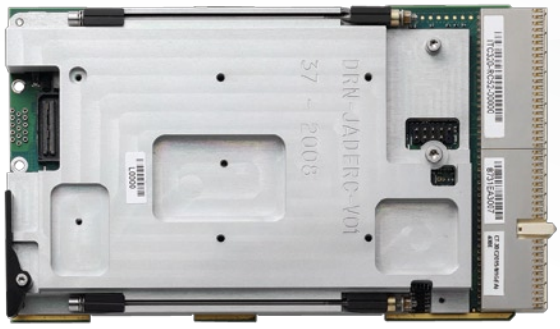
CT-30 Series

Rugged Conduction Cooled 3U CompactPCI® Intel® Core™2 Duo Processor Blade



Features

- Low power Intel® Core™2 Duo and Core™ Duo processor
- DDR2-400 registered ECC soldered SDRAM
- Two PCI-Express® Gigabit Ethernet ports
- PCI-Express® x4 or PCI-Express® 4 x1 to J2
- Supports low profile USB flash module disk

CONDUCTION COOLED

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 1GB, 2GB available on request
BIOS	AMI 16 Mbit FWH Flash Memory
CompactPCI Bus	32-bit/33 MHz CompactPCI® Bus
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 Gigabit Ethernet ports on RTM without LEDs
Graphics	XGI Z11 PCI-E® x1 2D Graphics Controller
	32MB DDR2 SDRAM
	Up to 1600 x 1200 at 70 Hz 16 M colors
	Optional Analog DB-15 VGA connector on front panel (VGA function limited below -10°C)
USB	Two USB 2.0 ports on RTM
Serial Port	One RS-232 port, one 10-pin header on RTM (RX, TX only)

Storage

SBC	Optional USB flash disk module
RTM	3x 7-pin SATA connectors onboard

Operating System

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

Miscellaneous

LED	Three LEDs: Power, WDT, CPU overtemperature
Hardware Monitor	Integrated in W83792AG, monitors CPU temperature, Vcore and DC voltages
Watchdog Timer	Integrated in Intel® 3100, two stages, system reset and NMI, with programmable interval, 1 µs to 1050 sec.

Mechanical & Environmental

Form Factor	3U 4HP (single slot width) CompactPCI®
	100 mm x 160 mm (L x W)
Operating Temp.	-40˚C to +85˚C for U2500 and 423 processors -40˚C to +70˚C for L7400 processor (temperature at wedge locks)
Storage Temp.	-40˚C to +85˚C
Rel. Humidity	95% non-condensing
Shock	40G half sine, 11 ms duration in operating (with USB flash disk)
Vibration	22~2000 Hz, 5g (sine), operating (with USB flash disk)
Power Consumption	Windows® XP with 100% CPU usage:
	Core™2 Duo 1.5GHz: 36W
	Core™ Duo 1.2GHz: 27W
	Celeron® M 1.07GHz: 24W
Weight	Net weight 436.5g

Safety & EMI

Certifications	CE, FCC Class A

Ordering Information

Model Number	Description/Configuration
Processor Blades	
CT-30/C2D15/M1G	Rugged Conduction Cooled 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM without VGA with conformal coating
CT-30/CD12/M1G	Rugged Conduction Cooled 3U CompactPCI® Core™ Duo 1.2 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM without VGA with conformal coating
CT30/C2D15/M2G	Rugged Conduction Cooled 3U CompactPCI® Core™2 Duo LV 1.5 GHz SBC with 2 GB soldered REG/ECC DDR2 SDRAM without VGA with conformal coating
Rear Transition Modules	
cPCI-R3920T	Rear Transition Module for CT-30, 80 mm depth
Accessories	
SUSB-4GB-LP	4GB low profile USB flash disk module
SUSB-8GB-LP	8GB low profile USB flash disk module

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