CT-60 Series

Rugged Conduction Cooled 6U CompactPCI® Processor Blade with 45nm Intel® Core™2 Duo



Features

- 45nm Intel® Core™2 Duo 2.26GHz
- Up to 4GB DDR2-800 soldered memory
- DVI/VGA display interfaces
- Two PCI-Express GbE ports
- Supports system/peripheral operation

CONDUCTION COOLED

Specifications

Processor & System

CPU	µFC-BGA Intel® Core™2 Duo Processor LV 2.26GHz (P8400), 3MB L2, FSB 1066MHz, TDP 25W
	µFC-BGA Intel® Core™2 Duo Processor 1.6GHz (L7500), 4MB L2, FSB 800MHz, TDP 17W
Chipset	Intel® GM45 with ICH9M
RAM	Single channel DDR2-667/800 soldered SDRAM, up to 4GB
BIOS	AMIBIOS®8 dual 16Mbit SPI flash memory
	Supports failover
CompactPCI Bus	PCI 64bit/ 66MHz, 3.3V or 5V universal V (I/O)
	Supports operation in system and peripheral slots
PICMG Standards	PICMG® 2.0 CompactPCI® R3.0
	PICMG® 2.1 Hot Swap R2.0
	PICMG® 2.9 System Management v1.5 R1.0
	PICMG® 2.16 Packet Switching Backplane R1.0

Connectivity

PMC	One PCI 64bit/66MHz PMC site
Ethernet	Two PCI-Express Intel® 82573L Gigabit Ethernet controllers
	Two 10/100/1000BASE-T PICMG® 2.16 ports
Graphics	Integrated in Intel® GM45, powered by Gen-5.0 Graphics Architecture
	Additional discrete ATI/AMD E4690 GPU supporting two DVI-I ports on RTM cPCI-R6700
	Analog VGA up to QXGA, routed to RTM (TMDS to RTM)
Rear I/O Signals	2x GbE, 2x RS-232, 3x SATA, 6x USB, PCI Express x1, High Def. Audio, 5x GPIO, TMDS, RGB, LVDS, KB/MS

Storage

SBC	Built in 4GB USB NAND flash onboard (0°C to +60°C temperature range support only)
	CompactFlash socket onboard (0°C to +60°C temperature range support only)
RTM	Available interfaces dependent on RTM model selected

Operating System

OS	Microsoft Windows® XP Professional
	Microsoft Windows® XP x64 Edition
	Microsoft Windows® Vista x64 Edition
	Red Hat Enterprise Linux 5.1
	VxWorks 6.6, 6.8, 5.5.1
	(Please contact ADLINK for other OS support)

Miscellaneous

Battery	N/A (optional Goldcap on RTM)
Watchdog Timer	System Reset and NMI, with Programmable Interval, 1-65535 seconds or minutes
Hardware Monitor	Monitors CPU & system temperatures, Vcore and DC voltages

Mechanical & Environmental

Form Factor	6U 4HP (single slot) CompactPCI® , 233.33 mmx160 mm (LxW)
Operating Temp.	-40°C to +85°C (temp. at wedge locks)
Storage Temp.	-50°C to +85°C
Rel. Humidity	95% , non-condensing
Shock	40G /11ms half sine, operating
Vibration	22~2000 Hz, 5g (sine), operating
Power Consumption	Core™2 Duo P8400, 4GB DDR2-800, 100GB SATA HDD onboard under Windows® XP with 100% CPU loading

	Current (A)	Power (W)
5V	6.2	31.0
3.3V	2.2	7.3
Total		38.3

Weight	Net weight 1068g

Safety & EMI

Certifications	CE, FCC Class A

Ordering Information

Model Number	Description/Configuration
Processor Blades	
CT-60/P84/M2	Rugged Conduction-Cooled 6U CompactPCI® blade with Core™2 Duo 2.26GHz (P8400) processor and 2GB soldered DDR2-800 memory with conformal coating
CT-60/P84/M4	Rugged Conduction-Cooled 6U CompactPCI® blade with Core™2 Duo 2.26GHz (P8400) processor and 4GB soldered DDR2-800 memory with conformal coating
CT-60/L75/M2	Rugged Conduciton-Cooled 6U CompactPCI® blade with Core™2 Duo 1.6GHz (L7500) processor, 2GB soldered DDR2-800 memory with conformal coating
Rear Transition Modules	
cPCI-R6002D	8HP Rear I/O module with DVI-I, COM x2, USB x5, GbE x2, SATA x3, Mic-in, Line-out, PS/2 KB/MS
cPCI-R6000P	8HP Rear I/O module with DVI-I, COM x2, USB x5, GbE x2, SATA x3, Mic-in, Line-out, PS/2 KB/MS
cPCI-R6100	4HP Rear I/O module with GbE x4, COM, USB x4, SATA x2, DVI, VGA, PS/2, CF, SD socket and rechargeable battery
cPCI-R6200	8HP Rear I/O module with GbE x2, USB x4, DVI-I, SATA x3, Mic-in, Line-out, PS/2 KB/MS, SAS x8
cPCI-R6700	4HP Rear I/O module with discrete GPU ATI/AMD E4690, DVI-I x2, GbE x2, USB x3, COM x2, KB/MS hearder, SATA x3, audio header

Contact your ADLINK representative for different CPU, memory combinations.
See 6U RTM selection guide for more options.

Mezzanines

DB-CF-SA	CompactFlash socket adapter card (for cPCI-R6002D, cPCI-R6110 and cPCI-R6200)

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