

# 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



### Specifications

#### Processor & System

CPU	uFC-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 Standard	PICMG® 2.0 CompactPCI® R3.0 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 Analog CRT up to QXGA signal routed to RTM
USB	Six USB ports routed to RTM
PS/2	PS/2 Keyboard Mouse port routed to RTM
Serial Port	Two 16C550 compatible serial ports routed to RTM

#### Storage

SBC	Built in 4GB USB NAND flash onboard (0°C to +60°C temperature range support only) CompactFlash socket onboard
RTM	Up to 3 SATA, 1 SCSI (RAID1), and CF For details please refer to cPCI-6880 I/O table.

#### 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 (Please contact ADLINK for other OS support)
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#### Miscellaneous

Battery	N/A (optional on RTM cPCI-R6100)
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 (ambient)
Rel. Humidity	95% , non-condensing
Shock	40G /11ms half-sine, operating (with USB flash disk)
Vibration	22-2000 Hz, 5g (sine), operating (with USB flash disk)
Power Consumption	Single 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

### Safety & EMI

Certifications	CE, FCC Class A
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### Ordering Information

Model Number	Description/Configuration
<b>CPU Board</b>	
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 Conduction-Cooled 6U CompactPCI® blade with Core™2 Duo 1.6GHz (L7500) processor, 2GB soldered DDR2-800 memory with conformal coating
<b>Rear Transition Module</b>	
cPCI-R6000	4HP Rear I/O module with DVI-I, COM x2, USB x3, GbE x2, SCSI, SATA x2, FDD
cPCI-R6000D	8HP Rear I/O module with DVI-I, COM x2, USB x5, GbE x2, SCSI, SATA x3, FDD, Mic-in, Line-out, PS/2 KB/MS
cPCI-R6000P	8HP Rear I/O module with DVI-I, COM x2, USB x5, GbE x2, SCSI, SATA x3, FDD, 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-R6110	4HP Rear I/O module with GbE x2, COM, USB x4, SATA x3, VGA, PS/2, CF, SD socket
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
Contact your ADLINK representative for different CPU, memory combinations.	
<b>Mezzanine</b>	
DB-CF-SA	CompactFlash socket adapter card (for cPCI-R6000D, cPCI-R6110 and cPCI-R6200)