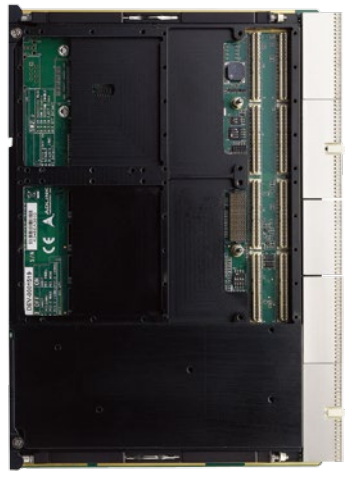
CT-61 Series

Rugged Conduction Cooled 6U CompactPCI® Intel® Core™ i7 Universal Blade with two PMC sites

Features

- 32nm Intel® Core™ i7 processors with ECC
- Up to 8GB DDR3-1066 ECC soldered memory
- Two 64-bit/133MHz PMC sites with rear I/O
- One PCI-Express x8 XMC site
- PICMG 2.16 compliant

CompactPCI® CONDUCTION COOLED



Specifications

Processor & System

CPU

µFC-BGA Intel® Core™ i7-620LE Processor 2.0GHz, 4 MB L2, TDP 25W
µFC-BGA Intel® Core™ i7-620UE Processor 1.06GHz, 4 MB L2, TDP 18W
Supports Intel® Hyper-Threading and Turbo Boost Technology

Chipset

Intel® QM57 PCH

Memory

Dual Channel DDR3-800/1066 MHz with ECC soldered onboard, maximum capacity 8GB

BIOS

AMI® EFI BIOS, 64Mbit SPI flash memory

CompactPCI Bus

PCI 64-bit/66MHz, 3.3V or 5V universal V(I/O)
Supports operation in system and peripheral slots with CompactPCI® bus communication (Universal mode)

PICMG Standards

PICMG® 2.0 CompactPCI® R3.0
PICMG® 2.1 Hot Swap R2.0
PICMG® 2.9 System Management R1.0
PICMG® 2.16 Packet Switching Backplane R1.0

Connectivity

PMC/XMC

Two PCI 64 bit/133MHz PMC sites with rear I/O (PIM)
One PCI-Express x8 XMC site shared with inner PMC site

Ethernet

Two PCI-Express Intel® 82574L Gigabit Ethernet controllers
Two 10/100/1000BASE-T PICMG 2.16 ports

Graphics

Integrated in Intel® Core™ i7 Processor
DVI and RGB to rear
Up to QXGA analog signal

Rear I/O Signals

2x GbE, 2x RS-232, 3x SATA, 6x USB, PCI Express x4, High Def. Audio, 5x GPIO, TMDS, RGB, LVDS, 2x PIM, KB/MS

Storage

RTM

Available interfaces dependent on RTM model selected

Operating System

OS

Microsoft Windows® XP Professional SP3
Microsoft Windows® 7
Microsoft® Windows® Vista Enterprise
Fedora™ 12
Wind River VxWorks 6.8, 6.6 (w/o SMP)
(Please contact ADLINK for other OS support)

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Specifications

Miscellaneous

LED
Power (green), WDT (amber), Hot Swap (blue), Hard Disk (red)

Battery
Gold Capacitor onboard for RTC CMOS RAM

Watchdog Timer
System Reset and NMI, with programmable interval, 1-65535 seconds or minutes

Hardware Monitor
Monitors CPU temperature, system temperature, Vcore and DC voltages

Mechanical & Environmental

Form Factor
6U 4HP CompactPCI®

Operating Temperature
-40°C to +85°C (measured at wedge lock)

Storage Temperature
-40°C to +85°C (measured at wedge lock)

Rel. Humidity
95% non-condensing

Shock
40G peak-to-peak, 11ms duration, non-operating

Vibration
20 Grms random vibration, 5-500Hz, each axis, operating

Power Consumption
Core™ i7-620LE 2.0 GHz, soldered 2GB DDR3-1067 under Windows® XP with 100% CPU loading

	Current (A)	Power (W)
5V	3.57	17.83
3.3V	5.83	19.25
Total		37.08

Weight
TBD

Certifications
CE/ FCC

Ordering Information

Processor Blades

- **CT-61/620L/M4G**
  Conduction Cooled 6U CompactPCI® blade with Core™ i7 620LE 2.0GHz and 4GB DDR3-1066 ECC soldered onboard memory, dual PMC sites
- **CT-61/620U/M2G**
  Conduction Cooled 6U CompactPCI® blade with Core™ i7 620UE 1.06GHz and 2GB DDR3-800 ECC soldered onboard memory, dual PMC sites

Rear Transition Modules

- **cPCI-R6002**
  4HP Rear I/O module with GbEx2, COMx2, USBx3, SATAx2, DVI-I
- **cPCI-R6100**
  4HP Rear I/O module with GbEx4, COM, USBx4, SATAx2, DVI, VGA, PS/2, CF, SD socket
- **cPCI-R6110**
  4HP Rear I/O module with GbE x2, USB x4, SATA x3, VGA, PS/2, CF, SD socket
- **cPCI-R6200**
  8HP Rear I/O module with GbE x2, USB x6, DVI-I, SATA x3, Mic-in, Line-out, PS/2 KB/MS, SAS x8
- **cPCI-R6210**
  4HP Rear I/O module with USB x2, DVI-I, PIM x2, COM x1, SATA x2

Mezzanines

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

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

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