

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®



Specifications

Processor & System

CPU	<p>µFC-BGA Intel® Core™ i7-620LE Processor 2.0GHz, 4 MB L2, TDP 25W</p> <p>µFC-BGA Intel® Core™ i7-620UE Processor 1.06GHz, 4 MB L2, TDP 18W</p> <p>Supports Intel® Hyper-Threading and Turbo Boost Technology</p>
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	<p>PCI 64-bit/66MHz, 3.3V or 5V universal V(I/O)</p> <p>Supports operation in system and peripheral slots with CompactPCI® bus communication (Universal mode)</p>
PICMG Standards	<p>PICMG® 2.0 CompactPCI® R3.0</p> <p>PICMG® 2.1 Hot Swap R2.0</p> <p>PICMG® 2.9 System Management R1.0</p> <p>PICMG® 2.16 Packet Switching Backplane R1.0</p>

Connectivity

PMC/XMC	<p>Two PCI 64bit/133MHz PMC sites with rear I/O (PIM)</p> <p>One PCI-Express x8 XMC site shared with inner PMC site</p>
Ethernet	<p>Two PCI-Express Intel® 82574L Gigabit Ethernet controllers</p> <p>Two 10/100/1000BASE-T PICMG 2.16 ports</p>
Graphics	<p>Integrated in Intel® Core™ i7 Processor</p> <p>DVI and RGB to rear</p> <p>Additional discrete ATI/AMD E4690 GPU supporting two DVI-I ports on RTM cPCI-R6700</p> <p>Up to QXGA analog signal</p>
Rear I/O Signals	2x GbE, 2x RS-232, 3x SATA, 6x USB, PCI Express x4, High Def. Audio, 5x GPIO, TMDS, RGB, LVDS, 2xPIM, KB/MS

Storage

RTM	Available interfaces dependent on RTM model selected
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Operating System

OS	<p>Microsoft Windows® XP Professional SP3</p> <p>Microsoft Windows® 7</p> <p>Microsoft® Windows® Vista Enterprise</p> <p>Fedora™ 12</p> <p>Wind River VxWorks 6.8, 6.6 (w/o SMP)</p> <p>(Please contact ADLINK for other OS support)</p>
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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	
Storage Temperature	-40°C to +85°C	
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

Model Number	Description/Configuration
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
cPCI-R6700	4HP Rear I/O module with discrete GPU ATI/AMD E4690, DVI-I x2, GbE x2, USB x3, COM x2, KB/MS header, SATA x3, audio header
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.