

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



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 |
| RAM | 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 |
|-----|--|

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> |
|----|--|

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 | TBD | |
| 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 DDR3-1066 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 | |

Safety & EMI

| | |
|----------------|---------|
| 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 (no FDD support) |
| 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.