

cPCI-6840

6U CompactPCI Highly Integrated Pentium® M Processor PCI-X Universal Blade ••



The cPCI-6840's Pentium® M processor, high performance integrated graphics, triple Gigabit Ethernet ports, and PMC optional Ultra-320 SCSI interface are combined to provide the best solution with the most balanced computing and graphics performance available today. As a 32/64-bit, 33/66MHz CompactPCI universal blade, the cPCI-6840 supports PICMG 2.1 Hot Swap Specification, PICMG 2.16 Packet Switching Backplane, PICMG 2.3 PMC on CompactPCI, and PICMG 2.9 System Management Bus for high-end computing servers, multimedia-integration, and telecommunication applications.

Features

- Supports universal (system/peripheral) operation mode
- PICMG 2.9 System Management Bus compliant
- PICMG 2.16 Packet Switching Backplane compliant
- Supports Low Power Intel® Pentium® M processor with 1MB L2 cache
- Up to 2GB PC2700 DDR-SDRAM with ECC
- 64-bit/66MHz PCI-X capable CompactPCI bus
- Triple Gigabit Ethernet ports
- Miscellaneous Display Interfaces supported: DVI, CRT, and LVDS panel
- Supports on board serial ATA ports
- Optional SCSI on PMC1 Rear I/O support

Specifications

CPU / Chipset / RAM

CPU	Intel® Pentium® M Processor with 1MB L2 cache, 1.3GHz or 1.6GHz
FSB	400MHz
Chipset	Intel® 855GME with 6300ESB I/O Controller Hub
RAM	Two 200-pin SODIMM sockets, up to 2GB PC2700 ECC DDR-SDRAM

Bus

Standards	PICMG 2.0 R3.0, PICMG 2.1 R2.0, PICMG 2.3 R1.0, PICMG 2.9 R1.0, PICMG 2.16 R1.0 PICMG 2.9 System Management Bus with IPMI v1.0
CompactPCI Bus	64-bit/66MHz PCI-X to PCI-X bus bridge
PMC Slot	Two PCI-X 64-bit/66MHz capable slots

I/O Interfaces

Display	Intel® 855GME Integrated Graphics with 64MB UMA
Ethernet	Intel® 82546EB Dual Ports Gigabit Ethernet Controller Intel® 82540EM Single Port Gigabit Ethernet Controller
IDE	ATA-100, dual channels, built-in optional 2.5" HDD
SCSI	Reserved PMC1 Rear I/O to RTM
Serial SATA	Supports one SATA port on rear board
USB	USB v2.0, 2 ports on front panel, 2 ports on RTM
Front Panel I/Os	COM1 (RJ45 type), Gigabit Ethernet x 1, USB v2.0 x 2, VGA x 1 (optional)
Backplane I/O (rear I/O)	Display: DVI, CRT, and internal LVDS interface Dual Gigabit Ethernet Ports, USB v2.0 x 2, COM2 (RJ45 type) Internal SATA Ports x 2, 40/44-pin ATA connector, CF Socket x1 Optional ultra-320 SCSI interface

Other Features

Watchdog Timer	2 stage, SMI/SCI before RESET
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Mechanical and Environmental

Form Factor	6U CompactPCI
Dimensions	233.33mm x 160mm (L x W), 1 slot (4HP) wide
Operating Temp.	0 to 50°C (inside-chassis temp, CPU type dependant; external air-flow required)
Storage Temp.	-20 to 80°C
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88Grms, 5-500Hz, each axis Operation: 0.5Grms, 5-500Hz, each axis
Measured Power Consumption	8.8A @ +5V, 4.0A @ +3.3V, 0.2A @ +12V (1.6GHz CPU, 512MB DDR-333, HDD, USB, K/B, Mouse are attached)
Certificate or Test	CE, FCC class A