cPCI-6830

6U CompactPCI Dual Pentium® III /Tualatin Host SBC



Specifications

CPU / Chipset / RAM

CPU	Dual FC-PGA2 Pentium III 1.26GHz with 512K on-die L2 cache
FSB	100/133MHz for Pentium III
Chipset	VIA Pro266T
RAM	Three 184-pin DIMM sockets, up to 3GB DDR-266 memory with ECC and registered support

Bus

Standard	PICMG 2.0 R3.0, PICMG 2.1 R2.0, PICMG 2.16 R1.0
CompactPCI Bus	64-bit/66MHz CompactPCI system slot

BIOS

Chip	Award 4Mb flash memory
Features	Intel PXE pre-boot on Ethernet

I/O Interfaces

Display	ATI RageXL with 8MB VRAM
Ethernet	Three 10/100Mbps Ethernet ports: 2 ports for PICMG 2.16 on front panel by Intel 82559; 3rd management port on RTM by VIA VT6103 PHY
IDE	ATA-100, dual channels, built-in 2.5" HDD housing on RTM
USB	USB 1.1, dual ports on RTM
Front Panel I/Os	PS2 KB & MS (combo), mouse, VGA, LAN1, LAN2, COM1 (RJ-45)
Backplane I/O (rear I/O)	J3: COM2, KB, MS, mouse, FDD, IDE2, LAN1 & 2 (PICMG 2.16) J4: LPT, IDE1, USB x 2, LAN3 (MII), VGA, AC-97 (Reserved)

Other Features

Hardware Monitoring	Monitoring CPU temperature, FAN speed, system temperature, Vcore and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable

Mechanical and Environmental

Dimensions	233mm x 160mm (L x W), 2 slots (8HP) wide
Operating Temp.	0 to 50˚C (inner-chassis temp, system 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	Dual Pentium III 1.26GHz CPU with 3G RAM: 14.6A @ +5V, 3.11A @ +3.3V, 0.704A @ +12V
Certificate or Test	CE, FCC class A

Features

- *High performance, supports dual 1.26GHz Pentium-III CPU*
- *Supports upto 3GB DDR266 memory with ECC*
- *PICMG 2.16 Packet Switching Backplane compliant*
- *Provides third 10/100 Ethernet management port*
- *64-bit/66MHz CompactPCI bus*

Ordering Information

cPCI-6830V/P1260	PICMG 2.16 6U cPCI 64-bit/66MHz Dual SKT-370 Pentium III 1.26GHz CPU with LAN and VGA
cPCI-R6830	Rear I/O transition module for cPCI-6830V

Note 1: Front CPU modules and rear I/O transition modules are sold separately.
Note 2: Come with special designed heat-pipe copper-made heat-sink.
Note 3: RAM and HDD are not included.

Peripheral Connectivity

I/O	Front			Rear (cPCI-R6830)	
	Faceplate	Board	J3/J4	Board	Faceplate
Serial Port (COM1)	Y (RJ-45)	---	---	---	---
Serial Port (COM2)	---	---	J3	Y (10-pin)	Y (DB-9)
Parallel Port (LPT1)	---	---	J4	---	Y (DB-25)
Keyboard/Mouse	Y (PS/2)	Y (6-pin)	J3	---	Y (PS/2)
Floppy	---	---	J3	Y (34-pin)	---
Ultra DMA 33 IDE 1	---	---	J4	Y (40-pin)	---
Ultra DMA 33 IDE 2	---	---	J3	Y (40-pin)	---
USB A/B	---	---	J4	---	Y
10/100Mbps Ethernet Port 1/2*	Y (RJ-45)	---	J3, 2.16	---	Y (RJ-45)
10/100Mbps Ethernet Port 3*	---	---	J4, MII	---	Y (RJ-45)
VGA **	Y (DB-15)	---	J4	---	Y (DB-15)
CompactFlash (via daughter board)	---	---	---	Y (CF-II, IDE1)	---
Speaker (Buzzer)	---	Buzzer	---	---	---
LEDs	Y	---		---	---
Reset button	Y	---	J2	---	---

* Note: The two Ethernet ports can be switched as either front-accessed or rear accessed. The front and rear connectors can not be active simultaneously.
** Note: VGA function is available by mounting mPCI-8750 into on-board miniPCI socket.

All specifications are subject to change without further notice.

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