cPCI-3840 Series

3U CompactPCI® Intel® Pentium® M Processor Module



Features

- *Low power consumption Intel® Pentium® M Celeron® M Processor up to 2 MB L2 cache*
- *Up to 2 GB PC2700 DDR-SDRAM*
- *Dual Gigabit Ethernet ports, USB 2.0*
- *Multiple storage interfaces: IDE, CompactFlash® Serial ATA*
- *Multiple display interfaces: CRT and DVI on RTM*
- *AC'97 audio line out and microphone input*

Ordering Information

cPCI-3840/P16/M512/H40G	3U cPCI Pentium® M 1.6 GHz CPU module with 512 MB DDR RAM and 40 GB HDD
cPCI-3840/P16/M1G/H40G	3U cPCI Pentium® M 1.6 GHz CPU module with 1 GB DDR RAM and 40 GB HDD
cPCI-R3840	Rear Transition Module for cPCI-3840, 50 mm

Note: Contact us for more CPU, memory and HDD options.

Peripheral Connectivity

Function	cPCI-3840		cPCI-R3840	
	Face-plate	On-Board	Face-plate	On-Board
Serial Port	Y (DB-9)	--	Y (DB-9)	--
USB	Y x 2	--	Y	--
Gigabit Ethernet	Y (RJ-45)	--	Y (RJ-45)	--
IDE	--	Y (44-pin)	--	--
General Purpose LED	Y	--	--	--
Reset button	Y	--	--	--
Speaker Out	Y	--	--	--
MIC In	Y	--	--	--
VGA	Y	--	--	--
SATA	Y	Y	--	--
SATA Power Connector	Y	--	--	--
CF Socket	--	Y	--	--
DVI-D	--	--	Y	--

Specifications

CPU / Chipset / RAM

CPU	Intel® Pentium® M processor 1.8 GHz with 2 MB L2 cache
	Low Voltage Intel® Pentium® M processor 1.1 GHz or 1.6 GHz with 1 MB L2 cache
	Intel® Celeron® M processor 1.3 GHz with 512 KB L2 cache
	Ultra Low Voltage Intel® Celeron® M Processor 600 MHz with 512 KB L2 cache
FSB	400 MHz
Chipset	Intel® 855GME with 6300ESB I/O Controller Hub
RAM	Two 200-pin SODIMM sockets for PC2700 DDR-SDRAM. Up to 2 GB

Bus

Standards	PICMG® 2.0 R3.0, PICMG® 2.1 R2.0
CompactPCI® Bus	32-bit/33 MHz PCI™ bus

I/O Interfaces

Display	Intel® 855GME Integrated Graphics with 32 MB UMA
	DB15 VGA interface on front panel
	DVI on the cPCI-R3840 RTM
Ethernet	Intel® 82546EB Dual-Port Gigabit Ethernet Controller
	One GbE port is on front panel
	Second GbE port is on J2 for rear I/O
IDE	Ultra ATA100/66/33, primary IDE 44-pin IDE connector and CompactFlash socket
Serial ATA	One on-board S-ATA 150 connector
USB	Four USB 2.0 ports: Two USB 2.0 ports on front panel, one on-board
	One USB 2.0 port on J2 for rear I/O
Serial COM	RS-232 DB-9 connector (COM1) on front panel
	RS-232 DB-9 connector (COM2) on J2 for rear I/O
Audio	Line out and Microphone input audio jacks

Other Features

Watchdog Timer	Two stages, SMI/SCI before RESET
LED	Four LEDs: Power, IDE, Hot-swap/GP LED, and WDT/GP LED
Hardware Monitoring	CPU temperature monitoring, over-temperature throttling, +5 V, +3.3 V, +12 V, Vcore voltages monitoring
Operating System Compatibility	Windows® 2000/XP/XP Embedded, Red Hat® Linux® 9.0

Mechanical and Environmental

Form Factor	3U CompactPCI®
Dimensions	100 mm x 160 mm (L x W), dual-slot width
Operating Temp.	0˚C to 55˚C (internal chassis temp, external air flow required)
Storage Temp.	-20˚C to 80˚C
Shock	15 G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis
Measured Power Consumption	24 W (5 V @ 3.16 A, 3.3 V @ 2.4 A) (1.6 GHz Pentium® M CPU, 512 MB RAM, 40 GB HDD)
Compliance	CE, FCC Class A

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