

# 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<br>Low Voltage Intel® Pentium® M processor 1.1 GHz or 1.6 GHz with 1 MB L2 cache<br>Intel® Celeron® M processor 1.3 GHz with 512 KB L2 cache<br>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<br>DB15 VGA interface on front panel<br>DVI on the cPCI-R3840 RTM              |
| Ethernet   | Intel® 82546EB Dual-Port Gigabit Ethernet Controller<br>One GbE port is on front panel<br>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<br>One USB 2.0 port on J2 for rear I/O                       |
| Serial COM | RS-232 DB-9 connector (COM1) on front panel<br>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    | Windows® 2000/XP/XP Embedded, Red Hat® Linux® 9.0   |
| Compatibility       |   |

#### 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<br>Operation: 0.5 Grms, 5-500 Hz, each axis |
| Measured Power  | 24 W (5 V @ 3.16 A, 3.3 V @ 2.4 A)  |
| Consumption     | (1.6 GHz Pentium® M CPU, 512 MB RAM, 40 GB HDD)   |
| Compliance      | CE, FCC Class A   |

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