# CoreModule® 800

## Celeron® M PCI-104 Single Board Computer
## Ultra-High Performance

1 AdvancedTCA Products
2 6U cPCI Blades
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## Features

- Gigabit Ethernet
- High Performance Video
- 2 RS-232/422/485 Serial ports
- 2 USB 2.0 ports
- PC/104 without wings
- HALT report available

**EXTREME RUGGED**

## Choose the Ampro by ADLINK™ CoreModule® 800 for…

Extreme Rugged™ embedded applications that need ultra-high performance in a compact module that does not violate PC/104 outline specifications. Contact Ampro by ADLINK™ for HALT report.

## Description

The Ampro by ADLINK™ CoreModule® 800 PCI-104 compatible SBC offers ultra low power Centrino performance with advanced networking, high-performance graphics and all the requisite PC-compatible component subsystems.

## Specifications

### Core System

CPU – 1.0GHz ULV Celeron® M 373

Cache – 512KB or 0KB Level 2

DRAM – Up to 1GB PC2700 DDR333 SODIMM

Chipset – Intel® 855GME/ICH4M

FSB – 400MHz

System Controllers – PC-compatible DMA and interrupt controllers and timers

Real Time Clock – Battery-backed RTC/CMOS

Watchdog timer

Powerfail Reset – Triggers when input voltage drops below predetermined thresholds

### Bus Interface

PCI/104 (PCI), downward-stacking

PC/104 to PC/104-*Plus* bridge through optional MiniModule™ ISA card

### I/O

PATA – Single Ultra DMA 33/66/100 IDE interface, supports up to two hard drives

Serial – 2 ports, RS-232/422/485

Parallel – EPP/ECP bidirectional port

Floppy – Supports 1 or 2 drives, shared with parallel

USB – 2 USB 2.0 ports (two root hubs)

Keyboard/Mouse – PS/2 interface

### Network Interface

Ethernet – Intel® 82541 (1000BaseT) Ethernet

### Video Interface

Controller – Integrated Intel® Extreme Graphics 2-AGP 4X 128-bit 3D engine

– Supports resolutions to 2048x1536

– Up to 64MB UMA Frame Buffer

– Dual channel LVDS

– Supports 3.3V or 5V flat panels

### Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux®, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 5.0, XP, XPe

BIOS – AMI

### Mechanical

Size – 90x96mm (3.6x3.8"); PCI-104 form factor

Power Requirements – (with 512MB RAM, 100% CPU load) –2.8A @5V

Temperature (100 LFM system air flow)

- Standard: –20° to +70°C
- Extended: –40° to +85°C
- Storage: –55° to +85°C

(See manual for thermal operating requirements)

Board Thickness – .120" (3.05mm)

## Ordering Information

| Model Number | Description/Configuration |
|---|---|
| **CM3-800-R-10** | CoreModule® 800, 1GHz ULV Celeron® M CPU, 512KB L2 cache, PC/104, Ethernet, 2 COM |
| **CM3-800-L-10** | 1GHz 512KB Cache QuickStart Kit (R-10 SBC, 512MB RAM, cable kit, software, documentation) |
| **MM3-ISA-R-11** | MiniModule ISA: PCI-104 to PC/104-*Plus* Bridge |

**ADLINK** TECHNOLOGY INC.