



# Ampro CoreModule™ 800

## Celeron® M PCI-104 Single Board Computer

Rugged, Ultra-High Performance, RoHS-Compliant



# CoreModule 800

### Choose Ampro CoreModule™ 800 for...

Rugged embedded applications that need ultra-high performance in a compact module that does not violate PC/104 outline specifications.

### Description

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



- Gigabit Ethernet
- High Performance Video
- 2 RS 232/422/485 Serial ports
- 2 USB 2.0 ports
- PCI-104 without wings

**For more information, pricing, and details on volume discounts, please call us at 1.800.966.5200 or +1.408.360.0200.** We'll immediately connect you to your local distributor.

Don't see the product you need? Contact us at 1.800.966.5200 or +1.408.360.0200 for information about our semi-custom and custom solutions.

**Get Started Today. Order a QuickStart Kit Now.**

### Ordering Information

MODEL	DESCRIPTION
CM3-800-L-10	1GHz 512kB Cache QuickStart Kit (R-10 SBC, 512MB RAM, Cable Kit, Software, Documentation)
CM3-800-L-08	800MHz 0kB Cache QuickStart Kit (R-08 SBC, 512MB RAM, Cable Kit, Software, Documentation)
CM3-800-R-10	1GHz ULV Celeron® M CPU, 512kB L2 Cache, PC-104, Ethernet, 2 COM
CM3-800-R-08	800MHz ULV Celeron® M CPU, 0kB L2 Cache, PC-104, Ethernet, 2 COM
CM3-800-X-01	Cable Kit
MM3-ISA-R-11	MiniModule ISA, PCI-104 to PC/104-Plus Bridge

### Specifications

#### PROCESSORS

- Choice of
  - 1GHz Ultra Low Voltage Celeron® M 373
  - 800MHz Ultra Low Voltage Celeron® M
- Cache – 512kB or 0kB Level 2
- Chipset – Intel 855GME/ICH4M
- FSB – 400MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- RealTime Clock – Battery-backed RTC/CMOS
- Watchdog timer
- Powerfail Reset – Triggers when input voltage drops below predetermined thresholds

#### MEMORY

- DRAM – Up to 1GB PC2700 DDR333 SODIMM

#### BUS INTERFACE

- PCI-104 (PCI)
- PCI-104 to PC/104-Plus bridge through optional MiniModule™ ISA card

#### I/O

- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- Serial – 2 ports, both are RS232/422/485
- 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 – Linux® FC6, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 5.0, XP, XPe (See Web site for details)
- BIOS – AMI

#### MECHANICAL

- Size – 90x96mm (3.6x3.8"); PCI-104 form factor
- Power Requirements – (with 512MB RAM, 100% Loaded)
  - 1GHz 2.8A @5V
  - 800MHz 2.6A @5V
- Temperature – (100 CFM system air flow)\*
  - Standard: –20° to +70°C
  - Extended: –40° to +85°C (1GHz only)
  - Storage: –55° to +85°C
- See manual for thermal operating requirements
- Board Thickness – .120" (3.05mm)

\* As measured with Ampro Heatsink Kit and 100 CFM or adequate thermal solution



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