



# Ampro MightyBoard™ 800

## Pentium® M Mini-ITX Embedded Motherboard

### High Performance, Low Power



## MightyBoard 800

### Choose Ampro MightyBoard™ 800 for...

High volume, compact embedded applications that need standard PCI bus expansion and high CPU performance without a fan.

### Description

Ampro MightyBoard™ 800 SBC gives you a choice of high performance, low-power Centrino® processors with high speed I/O to match. It includes Gigabit Ethernet, USB 2.0, and high performance graphics in an easy to use Mini-ITX industry standard form factor.



- Pentium® M/Celeron® M CPUs
- Up to 1GB of DDR memory
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 USB 2.0, 4 serial ports
- One PCI expansion slot

**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.

### Ordering Information

MODEL	DESCRIPTION
MB1-800-R-10	1.0GHz ULV Celeron® M CPU, PCI, dual Ethernet, Video, 4 COM
MB1-800-R-21	1.4GHz LV Pentium® M CPU, PCI, dual Ethernet, Video, 4 COM
MB1-800-L-10	1.0GHz QuickStart Kit (R-10 SBC 512MB RAM, Cable Kit, Software, Documentation)
MB1-800-L-21	1.4GHz QuickStart Kit (R-21 SBC 512MB RAM, Cable Kit, Software, Documentation)
MB1-ALL-X-01	Cable Kit

### Specifications

#### PROCESSORS

- Choice of
  - 1.4GHz LV Pentium® M 738
  - 1.0GHz ULV Celeron® M 373
- Cache – 2MB or 512kB Level 2
- Chipset – Intel 855GME/ICH4M
- FSB – 400MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- Real Time Clock – Battery-backed RTC/CMOS
- Thermal Monitoring
- Watchdog Timer
- Powerfail Reset – Triggers when input voltage drops below predetermined thresholds

#### MEMORY

- DRAM – Up to 1GB PC2700 DDR333 DIMM

#### BUS INTERFACE

- PCI – 1 slot

#### I/O

- EIDE – Dual PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to four devices
- Serial – 4 ports, two are RS232/422/485
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 or 2 drives
- USB – 4 USB 2.0 ports (four root hubs)
- Keyboard/Mouse – 2 PS/2 connectors
- Audio – AC97 stereo line in, out, mic

#### NETWORK INTERFACE

- Ethernet – One Intel 82541 (1000BaseT) and one Intel 82551ER (10/100BaseT)

#### VIDEO INTERFACE

- Controller – Integrated Intel Extreme Graphics 2
  - AGP 128-bit 3D engine
  - Supports resolutions to 2048x1536
  - Dual channel LVDS
  - Up to 64MB UMA Frame Buffer
  - Supports 3.3V and 5V flat panels

#### SOFTWARE & DEVELOPMENT TOOLS

- OS Support – Ampro Embedded Linux, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 5.0, XP, XPe (See Web site for details)
- BIOS – AMI

#### MECHANICAL

- Size – 170x170mm (6.7x6.7"), Mini-ITX form factor
- Power Requirements (with 128MB RAM, 100% Loaded)
  - 1.4GHz 4.1A @5V
  - 1.0GHz 3.8A @5V
- Environmental
  - Temperature (100 CFM system air flow)
    - Standard: 0° to +60°C
    - Storage: –20° to +75°C
- Board Thickness – .062" (1.6mm)



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