



# Ampro LittleBoard™ 800

## Pentium® M EBX Single Board Computer

### Ultra-High Performance



## LittleBoard 800

### Choose Ampro LittleBoard™ 800 for...

Compact, full featured, rugged embedded applications that need ultra-high performance, high speed I/O, and full PC/104-Plus expandability.

### Description

Ampro LittleBoard™ 800 EBX SBC offers you a choice of high performance, low voltage Centrino® processors, advanced networking, and high performance graphics.



- Intel Extreme Graphics (CRT and LVDS flat panel)
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 RS232/422/485 Serial, 4 USB 2.0 ports
- PC/104-Plus expansion

**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
LB3-800-R-08	800MHz ULV Celeron® M CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-800-R-10	1.0GHz ULV Celeron® M CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-800-R-21	1.4GHz LV Pentium® M CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-800-L-08	800MHz QuickStart Kit (R-01 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-800-L-10	1.0GHz QuickStart Kit (R-10 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-800-L-21	1.4GHz QuickStart Kit (R-21 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-800-F-21	1.4GHz LV with fan for above +70°C
LB3-ALL-X-01	Cable Kit

### Specifications

#### PROCESSORS

- Choice of
  - 1.4GHz LV Pentium® M 738
  - 1.0GHz ULV Celeron® M 373
  - 800MHz ULV Celeron® M
- Cache – 2MB, 512kB or 0kB 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
- Watchdog Timer
- Powerfail Reset – Triggers when input voltage drops below predetermined threshold

#### MEMORY

- DRAM – Up to 1GB PC2700 DDR333 DIMM

#### BUS INTERFACE

- PC/104-Plus (ISA and PCI)

#### I/O

- EIDE – Dual PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives each (four total)
- Compact Flash on secondary IDE
- Serial – 4 ports, all 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 – PS/2 interface
- Audio – AC97 speaker, mic, headphone

#### NETWORK INTERFACE

- Ethernet – Dual, Intel 82541 (1000BaseT) and Intel 82551ER (10/100BaseT)

#### VIDEO INTERFACE

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

#### SOFTWARE & DEVELOPMENT TOOLS

- OS Support – Ampro Embedded Linux, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 6.0, 5.0, XP, XPe (See Web site for details)
- BIOS – AMI

#### MECHANICAL

- Size – 146x203mm (5.75x8.0"); EBX form factor
- Power Requirements (with 128MB RAM, 100% Loaded)
  - 1.4GHz 3.4A @5V
  - 1.0GHz 2.8A @5V
  - 800MHz 3.5A @5V
- Environmental
  - Temperature (100 CFM system air flow)
    - Standard: –20° to +70°C
    - Optional: –40° to +85°C (F-21 model)
    - Storage: –55° to +85°C
- Board Thickness – .093" (2.36mm)



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