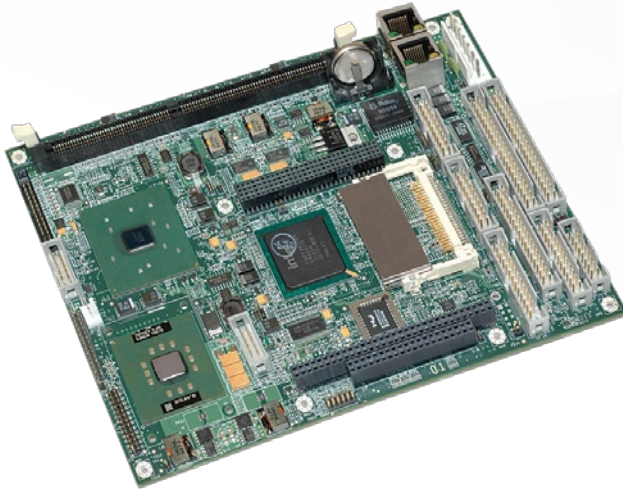


# LittleBoard™ 800

Pentium® M EBX Single Board Computer  
High Performance



## Features

- Intel® Extreme Graphics (CRT and LVDS flat panel)
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 RS-232/422/485 Serial, 4 USB 2.0 ports
- PC/104-Plus expansion

**EXTREME  
RUGGED!**

## Choose the Ampro by ADLINK™ 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

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

## Specifications

### Core System

Choice of

–1.4GHz LV Pentium® M 738

–1.0GHz UL V Celeron® M 373

–800MHz ULV Celeron® M

Cache – 2MB, 512KB or 0KB Level 2

DRAM – Up to 1GB PC2700 DDR333 DIMM

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

### Bus Interface

PC/104-Plus (PCI and ISA)

### I/O

PATA – Two Ultra DMA 33/66/100 IDE interfaces, supports up to two hard drives each (four total)

CompactFlash on Secondary IDE

Serial – 4 ports, RS-232/422/485

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 High Definition Audio

### Network Interface

Ethernet – Dual, Intel® 82541 (Gigabit) 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 by ADLINK™ Embedded Linux®, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 6.0, 5.0, XP, XPe

BIOS – AMI

### Mechanical

Size – 203x146mm (8.0x5.75"); EBX form factor

Power Requirements (with 128MB RAM, 100% Loaded)

– 1.4GHz 3.4A @5V

– 1.0GHz 2.8A @5V

– 800MHz 3.0A @5V

Temperature (100 LFM system air flow)

• Standard: –20° to +70°C

• Extended: –40° to +85°C (F-21 model)

• Storage: –55° to +85°C

Board Thickness – .093" (2.36mm)

## Ordering Information

Model Number	Description/Configuration
<b>LB3-800-R-08</b>	LittleBoard™ 800, 800MHz ULV Celeron® M CPU, PC/104-Plus, dual Ethernet, video, 4 COM
<b>LB3-800-R-10</b>	LittleBoard™ 800, 1.0GHz ULV Celeron® M CPU, PC/104-Plus, dual Ethernet, video, 4 COM
<b>LB3-800-R-21</b>	LittleBoard™ 800, 1.4GHz LV Pentium® M CPU, PC/104-Plus, dual Ethernet, video, 4 COM
<b>LB3-800-F-21</b>	LittleBoard™ 800, 1.4GHz LV Pentium® M CPU, PC/104-Plus, dual Ethernet, video, 4 COM with fan for above +70°C
<b>LB3-800-L-21</b>	1.4GHz QuickStart Kit (R-21 SBC 512MB RAM, cable kit, software, documentation)
<b>LB3-ALL-X-01</b>	LittleBoard™ 800 cable kit