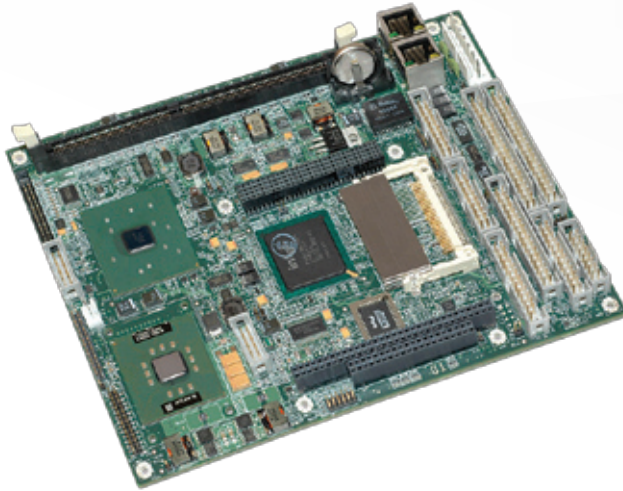


# LittleBoard™ 800

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