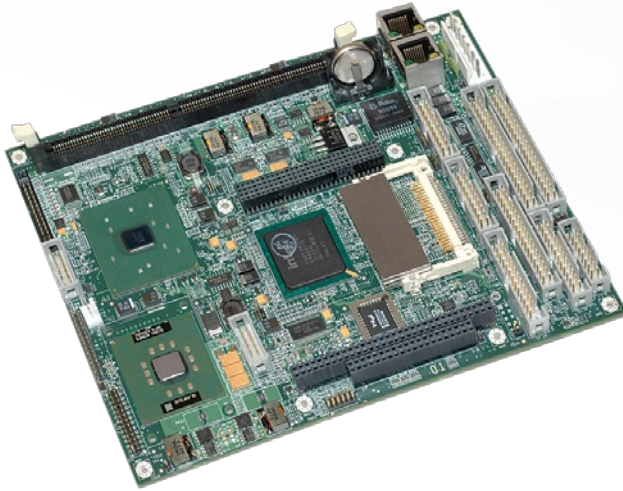


LittleBoard™ 800

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