

LittleBoard™ 620

Geode™ EBX Single Board Computer
Low Power, Easy Interface



Features

- ISA DDMA support
- Dual 10/100 Ethernet
- PC/104-*Plus* expansion
- Fanless operation
- Mini PCI socket
- SATA support

**EXTREME
RUGGED**

Choose the Ampro by ADLINK™ LittleBoard™ 620 for...

High volume embedded applications that need high performance and low power.

Description

The Ampro by ADLINK™ LittleBoard™ 620 provides high-performance, low-power processing with advanced networking and all the requisite PC-compatible component subsystems with PC-style connectors.

Specifications

Core System

500MHz Geode™ LX 800
Cache – 128KB Level 2
DRAM – Up to 1GB DDR333 DIMM
Chipset – AMD CS5536
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 key voltage drops below predetermined threshold

Bus Interface

PC/104-*Plus* and Mini PCI socket

I/O

PATA – Single Ultra DMA
CompactFlash socket
SATA optional
Serial – 4 ports, two are RS-232/422/485
Parallel – floppy shared
USB – 4 USB 2.0 ports
IrDA – Dedicated IrDA
Keyboard/Mouse – PS/2 interface
Audio – AC97 High Definition Audio
GPIO – 22

Network Interface

Dual Ethernet – Intel® 82551 10/100BaseT

Video Interface

Controller – Integrated in LX 800
– Hardware Video Accelerator
– Supports resolutions to 1600x1200
– Up to 4MB UMA Frame Buffer
– Supports 24-bit TTL and LVDS
– LVDS transceiver onboard

Software

OS Support – Ampro by ADLINK™ Embedded Linux®, VxWorks®, QNX®, Windows® CE 6.0, 5.0, XP, XPe
BIOS – AMI with Ampro by ADLINK™ extensions including ISA DMA

Mechanical

Size – 203x146mm (8.00x5.75"); EBX form factor
Power Requirements (with 512MB RAM, 100% Loaded)
–500MHz 2.2A @ 5V
Temperature (100 LFM system air flow)

- Standard: –20° to +70°C
- Extended: –40° to +85°C
- Storage: –55° to +85°C

Board Thickness – .093" (2.36mm)

Ordering Information

Model Number	Description/Configuration
LB3-620-R-12	LittleBoard™ 620, 500MHz Geode™, dual Ethernet, SATA, no RAM, PC/104- <i>Plus</i>
LB3-620-L-12	500MHz QuickStart Kit (R-12 SBC, 512MB RAM, cable kit, software, documentation)
LB3-ALL-X-01	LittleBoard™ 620 cable kit (RoHS)