

ReadyBoard™ 620

Geode™ EPIC Single Board Computer
Low Power, Easy Interface



Features

- ISA DDMA support
- Configuration control
- Dual 10/100 Ethernet
- PC/104 Plus expansion
- PCI-to-ISA Bridge
- Fanless operation
- Wide temperature range: -20° to +70°C

RUGGED

Choose Ampro by ADLINK™ ReadyBoard™ 620 for...

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

Description

Ampro by ADLINK™ ReadyBoard™ 620 offers high-performance, low-power processor with advanced networking and all of the PC-compatible component subsystems with PC-style connectors.

Specifications

Processor

500MHz Geode™ LX 800
Cache – 128kB Level 2
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

Memory

DRAM – Up to 1GB DDR333 SODIMM

Bus Interface

PC/104-Plus

I/O

EIDE – Single PCI-bus Enhanced Ultra DMA
Compact Flash Socket on secondary IDE
Serial – 4 ports, two are RS232/422/485
Parallel – floppy shared
USB – 4 USB 2.0 ports
IrDA – Dedicated IrDA
Keyboard/Mouse – PS/2 interface
Audio – AC97 speaker, mic, headphone
GPIO – 8

Network Interface

Dual Ethernet – Intel® 82551 10/100BaseT

Video Interface

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

Software

OS Support – Ampro by ADLINK™ Embedded Linux®, VxWorks®, QNX®, Windows® CE 5.0, XP, XPe (See website for details)
BIOS – AMI with Ampro by ADLINK™ extensions including ISA DMA

Mechanical

Size – 114.3x165.1mm (4.50x6.50"); EPIC form factor
Power Requirements (with 512MB RAM, 100% Loaded)
–500MHz 2.2A @ 5V
Environmental
–Temperature (100 LFM system air flow)

- Standard: 0° to +60°C
- Extended: -20° to +70°C
- Storage: -20° to +75°C

Board Thickness – .062" (1.6mm)

Ordering Information

Model Number	Description/Configuration
RB1-620-R-11	ReadyBoard™ 620, 500MHz Geode™, Dual Ethernet, no RAM, PC/104-Plus
RB1-620-L-11	500MHz QuickStart Kit (R-11 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RB1-ALL-X-01	ReadyBoard™ Cable Kit (RoHS)