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)