



Ampro ReadyBoard™ 620

Geode EPIC Single Board Computer

Low Power, Easy Interface



ReadyBoard 620

Choose Ampro ReadyBoard™ 620 for...

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

Description

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

- 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



For more information, pricing, and details on volume discounts, please call us at 1. 800. 966. 5200 or +1. 408. 360. 0200.

We'll immediately connect you to your local distributor.

Don't see the product you need? Contact us at 1. 800. 966. 5200 or +1. 408. 360. 0200 for information about our semi-custom and custom solutions.

Ordering Information

MODEL	DESCRIPTION
RB1-620-R-11	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)

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 Embedded Linux, VxWorks, QNX, Windows CE 5.0, XP, XPe (See Web site for details)
- BIOS – AMI with Ampro extensions

MECHANICAL

- Size – 114.3x165.1mm (4.50x6.50"); EPIC 2.0 form factor
- Power Requirements (with 512MB RAM, 100% Loaded)
 - 500MHz 2.2A @ 5V
- Environmental
 - Temperature (100 CFM system air flow)
 - Standard: 0° to +60°C
 - Extended: -20° to +70°C
 - Storage: -20° to +75°C
- Board Thickness – .062" (1.6mm)



5215 Hellyer Ave., San Jose, CA 95138 Tel. 408.360.0200 Fax 408.360.0222 sales@ampro.com

NOTICE: The product specifications provided in this datasheet are subject to change without notice. Every effort has been made to ensure the accuracy of this document. Ampro Computers, Inc., makes no warranties, expressed or implied, regarding errors or admissions and assumes no legal liability or responsibility for loss or damage resulting from the use of this document's information. AMPRO is a registered trademark and CoreModule, LittleBoard, Little Board, MightyBoard, MightySystem, MiniModule, ReadyBoard, ReadyPanel and ReadySystem are trademarks of Ampro Computers, Inc. All other trademarks and registered trademarks are the property of their respective owners.

APR.08

www.ampro.com