Ampro ReadyBoard™ 620
Geode EPIC Single Board Computer
Low Power, Easy Interface

RUGGED

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.

RoHS

- 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

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)

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.

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