

# Ampro ReadyBoard™ 560

## Via Eden™ EPIC Single Board System

### High I/O Performance, Low Cost, Easy Interface



#### Choose Ampro ReadyBoard 560 for...

High volume, compact embedded applications that need high performance (such as video and graphics applications), multiple choices of I/O expansions, low power fanless, and low cost.

#### Description

Ampro ReadyBoard 560 SBC gives you high performance processing, DDR memory controller, and high speed I/O. It includes Gigabit Ethernet networking, USB 2.0, and high performance graphics in an easy to use compact industry standard form factor SBC.

- Dual Ethernet – Gigabit and 10/100BaseT
- 4 Serial, 4 USB 2.0 ports
- AGP 8x video with MPEG acceleration
- PCI-104 expansion
- ReadyBox™ enclosure available
- ReadySystem™ turn-key systems available



#### Ordering Information

MODEL	DESCRIPTION
RBI-560-K-21	1 GHz QuickStart Kit (Q-21 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RBI-560-Q-21	1 GHz Eden CPU, PCI-104, dual Ethernet, Video, 4 COM
RBI-ALL-W-01	Cable Kit
MM3-ISA-Q-01	MiniModule ISA, PCI-104 to PC/104-Plus Bridge

#### Specifications

##### PROCESSOR

- 1 GHz Via Eden™ ESP 10000
- Cache – 128kB Level 1, 64kB Level 2
- Chipset – Via CN400 North Bridge and Via VT 8235 South Bridge
- FSB – 133MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- RealTime Clock – Battery-backed RTC/CMOS
- Watchdog Timer
- Powerfail Reset – Triggers when key voltage drops below predetermined thresholds

##### MEMORY

- DRAM – Up to 1 GB DDR SODIMM

##### BUS INTERFACE

- PCI-104 (PCI)
- PCI-104 to PC/104-Plus bridge through optional MiniModule™ ISA card

##### I/O

- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- CompactFlash on secondary IDE
- Serial – 4 ports, two with RS232/422/485
- Parallel – EPP/ECP bidirectional port shared with floppy interface
- Floppy – Supports 1 or 2 drives, shared with parallel port
- USB – 4 USB 2.0 ports (four root hubs)
- IrDA – Dedicated IrDA
- Keyboard/Mouse – PS/2 interface
- GPIO – Eight digital I/O pins
- Audio – AC97 speaker, mic, headphone

##### NETWORK INTERFACE

- Ethernet – One Intel 82541 (1000BaseT) and one Intel 82551 ER (10/100BaseT)

##### VIDEO INTERFACE

- Controller – Integrated UniChrome Pro GFX
  - AGP 8X performance
  - 128-bit 200MHz independent 2D engine and 3D engine
  - MPEG2 / MPEG4 hardware acceleration (Windows® only)
  - Supports FPD (Flat Panel Display) resolutions up to 1600x1200 with up to 32 bit color
  - Supports CRT resolutions up to 1920x1440 at up to 16 bit color (24 bit color for lower resolutions)
  - Up to 64 MB Frame Buffer
  - TFT, CRT, and LVDS display interface
  - Supports 3.3V and 5V flat panels

##### SOFTWARE & DEVELOPMENT TOOLS

- OS Support – See Web site for current listings
- BIOS – General Software 5.2 with Ampro extensions

##### MECHANICAL

- Size – 114.3x165.1mm (4.50x6.50"); EPIC 1.0 Form Factor
- Power Requirements – (w/128MB RAM, 100% Loaded) – 3.8A @5V
- Environmental
  - Operating temperature: 0° to +60°C
  - Storage temperature: -20° to +75°C