Ampro ReadyBoard™ 550
Via Eden™ EPIC Single Board System
Low Power, Low Cost, Easy Interface

ReadyBoard 550

Choose Ampro ReadyBoard 550 for…
High volume embedded applications that need low power and low cost.

Description
Ampro ReadyBoard 550 gives you a choice of low cost, low-power processors with advanced networking, high-performance graphics and all of the PC-compatible component subsystems with PC-style connectors.

- Ampro BIOS extensions
- Configuration control
- Dual 10/100 Ethernet
- 4 Serial, 4 USB ports
- PC/104-Plus expansion

Ordering Information

MODEL	DESCRIPTION
RB1-550-K-01	300MHz QuickStart Kit (Q-01 SBC, 256MB DRAM, Cable Kit, Software, Documentation)
RB1-550-K-11	533MHz QuickStart Kit (Q-11 SBC, 256MB DRAM, Cable Kit, Software, Documentation)
RB1-550-K-21	1GHz QuickStart Kit (Q-21 SBC, 256MB DRAM, Cable Kit, Software, Documentation)
RB1-550-Q-00	300MHz Eden CPU, PC/104, Ethernet, Video, 4 COM
RB1-550-Q-01	300MHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
RB1-550-Q-11	533MHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
RB1-550-Q-21	1GHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
RB1-ALL-W-01	Cable Kit

Specifications

PROCESSOR
- Choice of
  - 1GHz Via Eden® ESP 10000
  - 533MHz Via Eden ESP 5000
  - 300MHz Via Eden ESP 3000
- Cache – 128kB Level 1, 64kB Level 2
- Chipset – Via Twister-T
- Front Side Bus – 133MHz or 66MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- Real Time Clock – Battery-backed RTC/CMOS
- Thermal Monitoring
- Watchdog Timer
- Powerfail Reset – Triggers when key voltage drops below predetermined threshholds

MEMORY
- DRAM – Up to 1GB SODIMM

BUS INTERFACE
- PC/104-Plus (ISA and PCI) (except Q-00)

I/O
- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE interface supports up to two hard drives
- CompactFlash Socket on secondary IDE
- Serial – 4 ports, 2 are RS232/422/485
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 or 2, shared with parallel
- USB – 4 USB 1.1 ports (two root hubs)
- IrDA – Dedicated IrDA
- Keyboard/Mouse – PS/2 interface
- GPIO – Eight general-purpose digital I/O pins
- Audio – AC97 speaker, mic, headphone

NETWORK INTERFACE
- Ethernet – Dual Intel 82551ER 10/100BaseT (Q-00 single only)

VIDEO INTERFACE
- Controller – Integrated S3 Savage AGP 4X
  - DVD Multimedia Accelerator, MPEG2, AC-3
  - Supports resolutions to 1600×1200
  - Up to 32MB UMA Frame Buffer
  - Supports 36-bit TFT and STN LCDs
  - Built-in LVDS transceiver
  - Supports 3.3V, 5V flat panels

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

MECHANICAL
- Size – 114.3×165.1mm (4.50×6.50"); EPIC 1.0 Form Factor
- Power Requirements (w/64MB RAM, 100% Loaded)
  - 1GHz   2.9A @ 5V
  - 533MHz   2.4A @ 5V
  - 300MHz   1.6A @ 5V
- Environmental
  - Operating temperature: 0° to 60°C
  - Storage temperature: –20° to 75°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.

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