Ampro LittleBoard™ 550
Via Eden™ EBX Single Board System
Rugged, Low Cost, Long Lifecycle

Choose Ampro LittleBoard 550 for…
High volume rugged embedded applications that need high CPU and I/O performance, fanless operation and low cost.

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

- AGP 4x graphics
- Dual 10/100 Ethernet
- 4 RS232/422/485 Serial, 4 USB ports
- PC/104-Plus expansion
- –40° to +85°C

Ordering Information

MODEL	DESCRIPTION
LB3-550-K-01	300MHz QuickStart Kit (Q-01 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-550-K-11	533MHz QuickStart Kit (Q-11 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-550-K-21	1GHz QuickStart Kit (Q-21 SBC, 512MB RAM, Cable Kit, Software, Documentation)
LB3-550-S-01	300MHz Development System (Q-01 SBC, 512MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
LB3-550-S-11	533MHz Development System (Q-11 SBC, 512MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
LB3-550-S-21	1GHz Development System (Q-21 SBC, 512MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
LB3-550-Q-00	300MHz Eden CPU, PC/104, Ethernet, Video, 4 COM
LB3-550-Q-01	300MHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-550-Q-11	533MHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-550-Q-21	1GHz Eden CPU, PC/104-Plus, dual Ethernet, Video, 4 COM
LB3-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
- FSB – 133MHz or 66MHz
- 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 thresholds

MEMORY
- DRAM – Up to 1GB DIMM

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 four hard drives
- CompactFlash on secondary IDE
- Serial – 4 ports, all 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 1.1 ports (four root hubs)
- Keyboard/Mouse – PS/2 interface
- 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: MPG2, AC-3
  - Supports resolutions to 1600x1200
  - Up to 32MB UMA Frame Buffer
  - Supports 36-bit TFT, and STN LCDs and digital panels
  - Built-in LVDS transceiver
  - 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 – 146x203mm (5.75"x8"), EBX form factor
- Power Requirements – (w/64MB RAM, 100% Loaded)
  - 1GHz 2.9A @ 5V
  - 533MHz 2.5A @ 5V
  - 300MHz 1.9A @ 5V
- Temperature
  - Standard operating: –20° to +70°C
  - Optional operating: –40° to +85°C
  - Storage: –55° to +85°C

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