

Ampro CoreModule™ 550 Via Eden™ PC/I04-Plus Single Board System Rugged, Low Power, Low Cost



CoreModule 550

Choose Ampro CoreModule 550 for...

Rugged embedded applications that need low power and low cost in a compact SBC.

Description

Ampro CoreModule 550 PC/I04-Plus-compatible SBC offers low power Pentium-like performance with advanced networking, high performance graphics and all of the PC-compatible component subsystems.



- I0/I00BaseT Ethernet
- High Performance Video
- 2 Serial, 2 USB ports
- PC/I04-Plus expansion
- Soldered RAM resists vibration

Ordering Information

MODEL	DESCRIPTION
CM3-550-K-01	300MHz QuickStart Kit (Q-01 SBC, 128MB RAM, Cable Kit, Software, Documentation)
CM3-550-K-12	533MHz QuickStart Kit (Q-12 SBC, 256MB RAM, Cable Kit, Software, Documentation)
CM3-550-K-22	1GHz QuickStart Kit (Q-22 SBC, 256MB RAM, Cable Kit, Software, Documentation)
CM3-550-S-01	300MHz Development System (Q-01 SBC, 128MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
CM3-550-S-12	533MHz Development System (Q-12 SBC, 256MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
CM3-550-S-22	1GHz Development System (Q-22 SBC, 256MB RAM, Software, Documentation, ESD Kit, Development Platform with power supply, floppy, hard disk drive, CD-ROM, PCI/ISA backplane)
CM3-550-Q-00	300MHz Eden CPU, PC/I04, Ethernet, Video, 2 COM, 64MB RAM
CM3-550-Q-01	300MHz Eden CPU, PC/I04-Plus, Ethernet, Video, 2 COM, 128MB RAM
CM3-550-Q-12	533MHz Eden CPU, PC/I04-Plus, Ethernet, Video, 2 COM, 256MB RAM
CM3-550-Q-22	1GHz Eden CPU, PC/I04-Plus, Ethernet, Video, 2 COM, 256MB RAM
CM3-ALL-W-01	Cable Kit

Specifications

PROCESSORS

- 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 input voltage drops below predetermined thresholds

MEMORY

- DRAM – Up to 256MB soldered SDRAM

BUS INTERFACE

- PC/I04-Plus (ISA and PCI)

I/O

- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- Compact Flash Socket on secondary IDE
- Serial – 2 ports, both RS232/422/485
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 or 2 drives, shared with parallel
- USB – 2 USB 1.1 ports (two root hubs)
- Keyboard/Mouse – PS/2 interface

NETWORK INTERFACE

- Ethernet – Intel 82551ER I0/I00BaseT

VIDEO INTERFACE

- Controller – Integrated S3 Savage AGP 4X
 - DVD Multimedia Accelerator; MPEG2, AC-3
 - Supports resolutions to 1600x1200
 - Up to 32MB UMA Frame Buffer
 - Supports TFT and STN LCDs and digital panels
 - 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 – 90x96mm (3.6"x3.8"); PC/I04-Plus form factor
- Power Requirements – (w/128MB RAM except as noted 100% loaded)
 - 1.0GHz 3.2A@5V w/256MB RAM
 - 533MHz 2.6A@5V w/256MB RAM
 - 300MHz 2.0A@5V
- Temperature
 - Standard operating: –20° to +70°C
 - Optional operating: –40° to +85°C except 1.0GHz to 70°C
 - Storage: –55° to +85°C