

Ampro CoreModule[™] 420 486 PC/104 Single Board Computer Highly Integrated, RoHS-Compliant



Choose Ampro CoreModule™ 420 for...

Rugged, space-constrained, full-featured embedded systems with modest CPU performance requirements.

Description

Based on STMicroelectronics[™] 133MHz STPC[®] Atlas processor, the Ampro CoreModule[™] 420 provides 4 serial ports (two with RS422/485 capability), 10/100BaseT Ethernet, CRT and Flat Panel Video, USB, IDE, floppy and GPIO support in a PC/104 form factor.

(Not recommended for new designs.)



- -40° to +85°C
- 10/100 Ethernet, 3D Video
- 4 Serial, 1 USB, 8 GPIOs
- PC/104 expansion

Ordering Information

MODEL	DESCRIPTION
CM2-420-R-01	CoreModule* 420, 133MHz STPC Atlas CPU, 64MB RAM, Video, Ethernet
CM2-420-L-01	133MHz QuickStart Kit (R-01 SBC, Cable Kit, Software, Documentation)
CM2-420-X-01	CoreModule ¥420 Cable Kit

Specifications

PROCESSOR

- 133MHz STPC* Atlas
- · Cache 8kB Level 1
- System Controllers PC-compatible DMA and interrupt controller and timers
- Real Time Clock Battery-backed RTC/CMOS
- Watchdog Timer
- Powerfail Reset Triggers when key voltage drops below predetermined thresholds

MEMORY

- 64MB soldered SDRAM
- 1MB Flash Memory, 768kB for OEM use

BUS INTERFACE

PC/104 (ISA)

1/0

- EIDE Enhanced DMA 33 Synchronous IDE interface supports up to two hard drives
- Bytewide Socket for DiskOnChip* 2000
- Compact Flash Socket on primary IDE
- Serial 4 ports, two are RS232/422/485
- Parallel EPP /ECP bidirectional port, shared with floppy interface
- Floppy Supports 1 to 2 drives, shared with parallel port
- USB 1 USB 1.1 port (one root hub)
- Keyboard/Mouse PS/2 interface
- GPIO Eight general-purpose digital I/O pins

NETWORK INTERFACE

Ethernet – Intel 82551ER 10/100BaseT

VIDEO INTERFACE

- Controller Integrated
- 64-bit single-cycle 100MHz 2D graphics engine
- Supports resolutions to 1024 x 768
- 4MB UMA Frame Buffer
- Supports TFT panels
- Supports 3.3V, 5V flat panels

SOFTWARE & DEVELOPMENT TOOLS

- OS Support VxWorks* v5.4, QNX* v6.2.1, Windows* CE 5.0 (See Web site for details)
- BIOS General Software 5.2 with Ampro extensions

MECHANICAL

- Size 90x96mm (3.6x3.8"); PC/104 form factor
- Power Requirements (with 64MB RAM, 100% Loaded) – 1.3A @5V
- Environmental
- Temperature (100 CFM system air flow)
 - Standard: −20° to +70°C
 - Optional: −40° to +85°C
- Storage: -55° to +85°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.

Contact us at 1.800.966.5200 or +1.408.360.0200 for information about our semi-custom and custom solutions.

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