



# 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.



- 4 Serial, I USB, 8 GPIOs

# **Ordering Information**

MODEL	DESCRIPTION
CM2-420-L-01	133MHz QuickStart Kit (R-01 SBC, Cable Kit, Software, Documentation)
CM2-420-R-01	CoreModule 420, I 33MHz STPC Atlas CPU, 64MB RAM, Video, Ethernet
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
- IMB Flash Memory, 768kB for OEM use

## **BUS INTERFACE**

PC/I04 (ISA)

### I/O

- EIDE Enhanced DMA 33 Synchronous IDE interface supports up to two hard drives
- Bytewide Socket for DiskOnChip® 2000
- CompactFlash 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 I USB I.I port (one root hub)
- Keyboard/Mouse PS/2 interface
- GPIO Eight general-purpose digital I /O pins

# **NETWORK INTERFACE**

Ethernet – Intel 8255 I ER 10/100BaseT

# VIDEO INTERFACE

- Controller Integrated
- 64-bit single-cycle I 00MHz 2D graphics
- Supports resolutions to 1024×768
- 4MB UMA Frame Buffer
- SupportsTFT 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 (3.6"x3.8"); PC/104 form factor
- Power Requirements (w/64MB RAM, 100%) Loaded) - 1.3A @5V
- Temperature
- Standard: −20° to +70°C
- Optional: -40° to +85°C
- Storage: -55° to +85°C

- −40° to +85°C
- 10/100 Ethernet, 3D Video
- PC/104 expansion

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