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## Ampro CoreModule™ 410 486 PC/104 Single Board Computer Rugged, Low Cost, RoHS-Compliant



# CoreModule 410

### Choose Ampro CoreModule™ 410 for...

Compact, rugged, embedded designs with modest performance requirements and micro-controller-like functionality where the tools and OS support for the PC architecture can simplify and speed the design process.

**This product is not recommended** for long-production-life applications, for example Medical with FDA approval requirements. Although the board is RoHS-compliant, the Cable Kit and QuickStart Kit may not be.

### Description

Based on STMicroelectronics™ 133MHz STPC® Elite processor, the Ampro CoreModule™ 410 provides a CPU and a core set of peripherals to control stand-alone, headless systems.



- -40° to +85°C
- 8 GPIOs
- 2 Serial ports
- PC/104 expansion

**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.

Don't see the product you need? Contact us at 1. 800. 966. 5200 or +1. 408. 360. 0200 for information about our semi-custom and custom solutions.

**Get Started Today. Order a QuickStart Kit Now.**

### Ordering Information

MODEL	DESCRIPTION
CM2-410-K-01	133MHz QuickStart Kit (R-01 CPU, Cable Kit, Software, Documentation)
CM2-410-R-01	133MHz STPC Elite CPU, 16MB RAM
CBL-410-Q-01	CoreModule™ 410 Cable Kit

### Specifications

#### PROCESSORS

- 133MHz STPC® Elite
- Cache – 8kB Level 1
- System Controllers – PC-compatible DMA and interrupt controller and timers
- Real Time Clock – Battery-backed RTC/CMOS
- Watchdog Timer
- Powerfail Rest – Triggers when input voltage drops below predetermined thresholds

#### MEMORY

- 16MB soldered SDRAM
- 1MB Flash Memory, 768kB for OEM use

#### BUS INTERFACE

- PC/104 (ISA)

#### I/O

- EIDE – Enhanced DMA 33 Synchronous IDE interface supports up to two hard drives
- Byte-wide Socket for DiskOnChip® 2000
- Serial – 2 ports, one is RS232/422/485
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 to 2 drives
- Keyboard/Mouse – PS/2 interface
- GPIO – Eight general-purpose digital I/O pins

#### NETWORK INTERFACE

- None

#### VIDEO INTERFACE

- None

#### SOFTWARE & DEVELOPMENT TOOLS

- OS Support – VxWorks® v5.4, QNX® v6.2.1 Windows® CE, (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 (with 16MB RAM, 100% Loaded) – 1.0A@5V
- 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)



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NOTICE: The product specifications provided in this datasheet are subject to change without notice. Every effort has been made to ensure the accuracy of this document. Ampro Computers, Inc., makes no warranties, expressed or implied, regarding errors or admissions and assumes no legal liability or responsibility for loss or damage resulting from the use of this document's information. ©2007 Ampro Computers, Inc. All rights reserved. Ampro is a registered trademark and CoreModule, LittleBoard, Little Board, MightyBoard, MightySystem, MiniModule, ReadyBoard, ReadyBox, ReadySystem and RuffSystem are trademarks of Ampro Computers, Inc. All other trademarks and registered trademarks are the property of their respective owners.

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