

# CoreModule® 430

486 PC/104 Single Board Computer  
Highly Integrated, Low Power



## Features

- -40°C to +85°C
- 10/100 Ethernet, 3D Video
- 4 Serial, 2 USB, 8 GPIOs
- PC/104 Expansion
- Ultra Low Power
- 486 migration



## Choose the Ampro by ADLINK™ CoreModule® 430 for...

Rugged, space-constrained, legacy-friendly embedded systems with modest CPU performance requirements.

### Description

Based on the Vortex86SX 300MHz or Vortex86DX 800MHz processor, the Ampro by ADLINK™ CoreModule® 430 provides 4 serial ports (two with RS-422/485 capability), 10/100BASE-T Ethernet, CRT and flat panel video, 2 USB, IDE, floppy and GPIO support in a PC/104 form factor.

## Specifications

### Core System

CPU – 300MHz Vortex86SX or 800MHz Vortex86DX  
Cache – 16kB I-cache, 16kB D-cache  
DRAM – 256MB soldered DDR2  
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

### Bus Interface

PC/104 (ISA)

### I/O

PATA – DMA 100 IDE interface supports up to two hard drives  
CompactFlash socket  
Serial – 4 ports, two RS-232/422/485  
Parallel – EPP /ECP bidirectional port  
USB – 2 USB 2.0 ports  
Keyboard/Mouse – PS/2 interface  
GPIO – Eight general-purpose digital I/O pins

### Network Interface

Ethernet - One integrated Vortex86 port

### Video Interface

Controller – Integrated  
– 64-bit single-cycle 100MHz 2D graphics engine  
– Supports resolutions to 1600x768  
– 32MB / 64MB DDR2 video memory  
– Supports TFT panels  
– Supports 3.3V, 5V flat panels

### Software & Development Tools

OS Support – QNX® v6.3, Windows® CE 5.0/6.0  
BIOS – AMI BIOS

### Mechanical and Environmental

Size – 90 x 96 mm (3.6 x 3.8"); PC/104 form factor  
Power Requirements – 1.3A @ 5V  
Temperature (100 LFM system air flow)

- Standard: -20° to +70°C
- Extended: -40° to +85°C
- Storage: -55° to +85°C

Board Thickness – .093" (2.36 mm)

## Ordering Information

Model Number	Description/Configuration
CM3-430-R-10	CoreModule® 430, 300MHz Vortex CPU, 256MB RAM, Ethernet
CM3-430-R-11	CoreModule® 430, 300MHz Vortex CPU, 256MB RAM, Video, Ethernet
CM3-430-R-12	CoreModule® 430, 800MHz Vortex CPU, BGA passive heatsink, 256MB RAM, Video, Ethernet
CM3-430-L-12	800MHz QuickStart Kit (R-12 SBC, cable kit, software, documentation)

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