

# CoreModule<sup>®</sup> 430

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



## Features

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



## Choose Ampro by ADLINK™ CoreModule<sup>®</sup> 430 for...

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

### Description

Based on Vortex86SX 300MHz or Vortex86DX 800MHz processor, the Ampro by ADLINK™ CoreModule<sup>®</sup> 430 provides 4 serial ports (two with RS422/485 capability), 10/100BaseT Ethernet, CRT and Flat Panel Video, 2 USB, IDE, floppy and GPIO support in a PC/104 form factor.

## Specifications

### Processor

300MHz Vortex86SX or 800MHz Vortex86DX  
Cache – 16kB I-cache, 16kB D-cache  
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

DRAM 256MB soldered DDR2

### Bus Interface

PC /104 (ISA)

### I/O

EIDE – Enhanced DMA 100 Synchronous IDE interface supports up to two hard drives  
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 – 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<sup>®</sup> v6.3, Windows<sup>®</sup> CE 5.0, 6.0  
(See website for details)  
BIOS – AMI BIOS

## Mechanical

Size – 90x96mm (3.6x3.8"); PC/104 form factor  
Power Requirements – 1.3A @ 5V  
Environmental  
–Temperature (100 LFM system air flow)

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

Board Thickness – .093" (2.36mm)

## Ordering Information

Model Number	Description/Configuration
CM3-430-R-10	CoreModule <sup>®</sup> 430, 300MHz Vortex CPU, 256MB RAM, Ethernet
CM3-430-R-11	CoreModule <sup>®</sup> 430, 300MHz Vortex CPU, 256MB RAM, Video, Ethernet
CM3-430-R-12	CoreModule <sup>®</sup> 430, 800MHz Vortex CPU, 256MB RAM, Video, Ethernet
CM3-430-L-10	300MHz QuickStart Kit (R-10 SBC, Cable Kit, Software, Documentation)
CM3-430-L-11	300MHz QuickStart Kit (R-11 SBC, Cable Kit, Software, Documentation)
CM3-430-L-12	800MHz QuickStart Kit (R-12 SBC, Cable Kit, Software, Documentation)
CM3-430-X-01	CoreModule <sup>®</sup> 430 Cable Kit