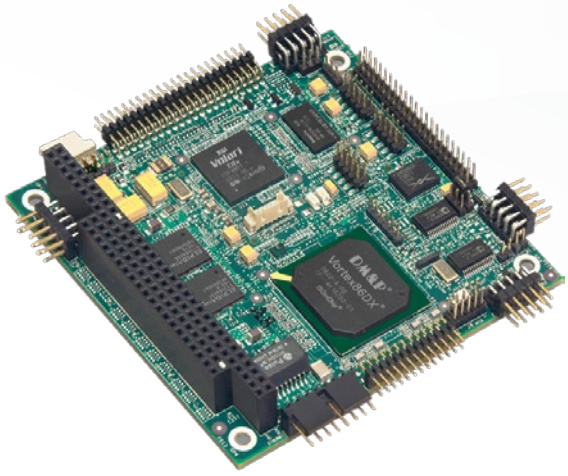
CoreModule® 430

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

EXTREME RUGGED

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)