



Features

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



Choose Ampro by ADLINK™ CoreModule® 435 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® 435 provides 4 serial ports (two with RS-422/485 capability), 10/100BASE-T & Gigabit Ethernet, VGA and flat panel video, 2 USB, IDE, 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
Memory	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 Interfaces

PATA	DMA 100 IDE interface supports up to two hard drives
Storage	CompactFlash socket
Serial	2x RS-232, 2x RS-232/422/485
USB	2x USB 2.0 ports
KB/MS	PS/2 interface
GPIO	Eight general-purpose digital I/O pins

Network Interface

Ethernet	1x integrated Vortex86 10/100 port and 1x Intel 82451PI Gigabit Ethernet
----------	--

Video Interface

Graphics Engine	Integrated 2D, 64-bit, single-cycle, 100MHz
Resolution	1600x768
Video Memory	32MB/64MB DDR2
VGA	Yes
TTL/TFT	Dual channels 12-bit or Single Channel 18-bit color depths Supports 3.3V, 5V flat panels

Software & Development Tools

OS Support	QNX v6.3; Windows CE 5.0, 6.0
BIOS	AMI BIOS

Mechanical

Form Factor	PC/104
Dimensions	90x96mm (3.6x3.8")
Operating Temp.	-20°C to 75°C -40°C to +85°C
Power Requirements	1.3A @ 5V
Temperature	(100 LFM system air flow) • Standard: -20°C to +70°C • Extended: -40°C to +85°C • Storage: -55°C to +85°C
Board Thickness	.093" (2.36mm)

Ordering Information

Model Number	Description/Configuration
CM-435-R-10	CoreModule® 435, 300MHz Vortex CPU, 256MB RAM, Video, 10/100 & Gigabit Ethernet
CM-435-R-12	CoreModule® 435, 800MHz Vortex CPU, 256MB RAM, Video, 10/100 & Gigabit Ethernet
CM-435-L-10	300MHz QuickStart Kit (CM-435-R-10 SBC, cable kit, software, documentation)
CM-435-L-12	800MHz QuickStart Kit (CM-435-R-12 SBC, cable kit, software, documentation)