



Features

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

Specifications

Core System

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|--------------------|--|
| 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 |
| Powerfail Reset | Triggers when key voltage drops below predetermined thresholds |
| BIOS | AMI BIOS |

Bus Interface

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|--------|-----|
| PC/104 | ISA |
|--------|-----|

Multi I/O and Storage

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|---------|--|
| 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 |

Ethernet

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

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|-----------------|---|
| 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 |

Power

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| Power Requirement | 1.3A @5V |
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Mechanical and Environmental

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|-----------------------|--|
| Form Factor | PC/104 |
| Dimensions | 90x96mm (3.6x3.8") |
| Board Thickness | 0.093" (2.36mm thick) |
| Operating Temperature | (100 LFM system air flow) <ul style="list-style-type: none"> • Standard: -20°C to +70°C • Extended: -40°C to +85°C |
| Storage Temperature | -55°C to +85°C |

Operating Systems

Extended Support (BSP) Win XPe, WinCE 5.0/6.0, QNX 6.5

Ordering Information

Modules

| 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 |

Accessories

| Model Number | Description/Configuration |
|--------------|---|
| 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) |