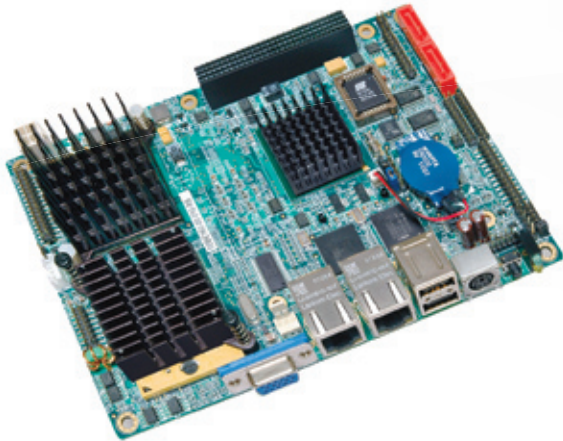


# ReadyBoard™ 830

Core™2 Duo EPIC Single Board Computer  
Ultra High I/O Bandwidth, Easy Interface



## Features

- ACPI Power Management
- Gigabit Ethernet
- Two SATA ports
- Mini PCI Express socket
- LVDS and DVI support



## Choose Ampro by ADLINK™ ReadyBoard™ 830 for...

Compact embedded applications that need ultra high CPU performance and high speed I/O.

### Description

Ampro by ADLINK™ ReadyBoard™ 830 SBC uses an Intel® Core™2 Duo processor for ultra high performance. It includes dual Gigabit Ethernet, USB 2.0, SATA and high end graphics in a compact EPIC form factor SBC with PC style connectors.

## Specifications

### Processor

Choice of  
–1.50GHz Core™2 Duo L7400  
–1.06GHz ULV Celeron® M 423  
Cache – 2MB Core™ Duo, 1MB Celeron® M  
Chipset – Intel® 945GME/ICH7M  
FSB – 667MHz  
System Controllers – PC-compatible DMA and interrupt controllers and timers  
Real Time Clock – Battery-backed RTC/CMOS  
Enhanced Power Management with full support of ACPI 2.0  
Watchdog Timer  
Powerfail Reset –Triggers when input voltage drops below predetermined threshold

### Memory

DRAM – Up to 4GB DDR2 533 SODIMM

### Bus Interface

PC/104, Mini-PCIe

### I/O

SATA – 2 devices  
Compact Flash on primary IDE  
Serial – 4 ports, 2 are RS232/422/485  
Parallel – EPP/ECP bidirectional port shared with floppy interface  
Floppy – Supports 1 or 2 drives, shared with parallel port  
USB – 6 USB 2.0 ports  
Keyboard/Mouse – PS/2 interface  
GPIO – 8  
Audio – AC97 speaker, mic, headphone

### Network Interface

Ethernet - Dual Intel® 82573V Gigabit ports

### Video Interface

Intel® GMA 950, 224 MByte 64 Bit Video RAM (DVM T 3.0), Dynamic Display Modes for flat-panel, wide-screen and Digital TV support  
Dual panel display with two independent pipelines  
Flat panel interface, resolutions 640x480 up to 1920x1200  
HD hardware motion compensation to support HD high-bit-rate MPEG2 media playback  
HDTV (1080i/p) support  
CRT resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)  
Onboard TV encoder supports HDTV (420p, 720p and 1080i), Component and S-Video for TV-Out  
DVI Interface

### Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux®, Windows® CE 6.0, 5.0, XP, XPe® (See website for details)  
BIOS – AMI with ACPI 2.0

### Mechanical

Size – 114.3x165.1mm (4.5x6.5"); EPIC form factor  
Power Requirements (with 512MB RAM, 100% Loaded)  
–1.50GHz 2.2A @ 12V  
–1.06GHz 2.1A @12V  
Environmental  
–Temperature (100 LFM system air flow)  
• Standard: 0° to +60°C  
• Storage: –20° to +75°C  
Board Thickness – .062" (1.6mm)

## Ordering Information

Model Number	Description/Configuration
RB4-830-R-30	ReadyBoard™ 830, 1.5GHz LV Core™2 Duo L7400, Dual Gigabit Ethernet, No RAM
RB4-830-R-10	ReadyBoard™ 830, 1.06GHz ULV Celeron® M 423, Dual Gigabit Ethernet, No RAM
RB4-830-L-30	1.50GHz QuickStart Kit (R-30 SBC, 1GB RM, Cable Kit, Software, Documentation)
RB4-830-L-10	1.06GHz QuickStart Kit (R-10 SBC, 1GB RAM, Cable Kit, Software, Documentation)
RB4-ALL-X-01	ReadyBoard™ Cable Kit (RoHS)