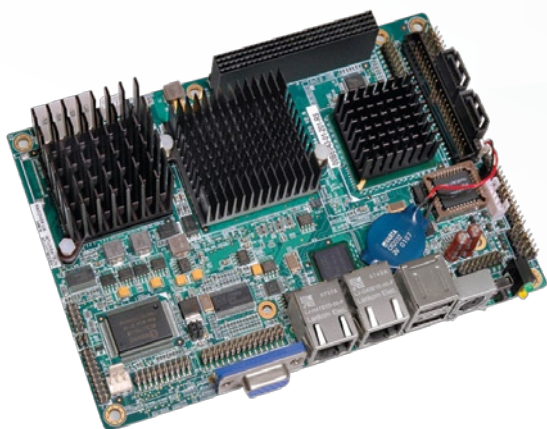


ReadyBoard™ 820

Pentium® M EPIC Single Board Computer
High I/O Bandwidth, Easy Interface



Features

- ACPI 2.0 power management
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 USB 2.0
- 2 SATA ports

RUGGED

Choose the Ampro by ADLINK™ ReadyBoard™ 820 for...

High volume, compact embedded applications that need high CPU performance and I/O bandwidth along with RoHS compliance.

Description

The Ampro by ADLINK™ ReadyBoard™ 820 SBC uses a high performance, low-power Centrino® processor. It includes Gigabit Ethernet, USB 2.0, SATA and high performance graphics in an easy to use EPIC form factor SBC.

Specifications

Core System

Choice of

–1.4GHz LV Pentium® M 738

–1.0GHz Celeron® M

Cache – 2MB Level 2

DRAM – 2GB DDR2 533 SODIMM

Chipset – Intel® 915GME/ICH6M

FSB – 400MHz

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

Bus Interface

PCI-104

I/O

PATA –Single Ultra DMA 33/66/100 channel supports up to two devices

SATA – 2 devices

CompactFlash

Serial – 4 ports, 2 are RS-232/422/485

Parallel – EPP/ECP bidirectional port shared with floppy interface

Floppy – Supports 1 or 2 drives, shared with parallel port

USB – 4 USB 2.0 ports

Keyboard/Mouse – PS/2 interface

GPIO – 8

Audio – AC'97: Line-in, Line-out, Mic

Network Interface

Ethernet – One Intel® 82573V Gigabit port on PCIe x1 lane; one Intel® 82551QM 10/100BaseT port

Video Interface

Controller – Integrated Intel® 2D/3D engines

– Supports CRT and DVI display interfaces

– Supports Intel® DVM T 3.0 (Dynamic Video Memory Technology which allows maximum memory allocation support based on total system memory

– Supports 3.3V and 5V LVDS flat panels

Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux®, Windows® CE 5.0, XP, XPe
BIOS – AMI with ACPI 2.0

Mechanical

Size – 165.1x114.3mm (6.50x4.50"); EPIC form factor

Power Requirements (with 512MB RAM, 100% Loaded)

–1.4GHz 4.2A @ 5V

–1.0GHz 3.6A @ 5V

Temperature (100 LFM system air flow)

• Standard: 0°C to +60°C

• Extended: –20°C to +65°C

• Storage: –20°C to +75°C

Board Thickness – .062" (1.6mm)

Ordering Information

Model Number	Description/Configuration
RB4-820-R-21	ReadyBoard™ 820, 1.4GHz Pentium® M, dual Ethernet, no RAM
RB4-820-R-10	ReadyBoard™ 820, 1.0GHz Celeron® M, dual Ethernet, no RAM
RB4-820-L-21	1.4GHz QuickStart Kit (R-21 SBC, 1G RAM, cable kit, software, documentation)