

Ampro ReadyBoard[™] 820 Pentium MEPIC Single Board Computer Ultra High I/O Bandwidth, Easy Interface



Choose Ampro ReadyBoard™ 820 for...

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

Description

Ampro 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, connector-compatible with the ReadyBoard™800.



- ACPI 2.0 power management
- Dual Ethernet Gigabit and 10/100BaseT
- 4 USB 2.0, 2 SATA ports
- ReadySystem=turn-key systems available

Ordering Information

MODEL	DESCRIPTION
RB4-820-R-21	1.4GHz Pentium* M, Dual Ethernet, no RAM
RB4-820-R-10	1.0GHz Celeron* M, Dual Ethernet, no RAM
RB4-820-L-21	1.4GHz QuickStart Kit (R-21 SBC, 512MB RAM, Cable kit, Software, Documentation)
RB4-820-L-10	1.0GHz QuickStart Kit (R-21 SBC, 512MB RAM, Cable kit, Software, Documentation)
RB4-ALL-X-01	ReadyBoard Cable Kit (RoHS)

Specifications

PROCESSORS

- Choice of
- 1.4GHz LV Pentium* M 738
- 1.0GHz Celeron® M
- Cache 2MB Level 2
- 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

MEMORY

DRAM – 2GB DDR2 533 SODIMM

BUS INTERFACE

PCI-104

I/O

- IDE Single Ultra DMA 33/66/100 channel supports up to two devices
- 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 (coming Q1'08)
- Floppy Supports 1 or 2 drives, shared with parallel port (coming Q1 '08)
- USB 4 USB 2.0 ports
- Keyboard/Mouse PS/2 interface
- GPIO-8
- Audio AC97 speaker, mic, headphone

NETWORK INTERFACE

 Ethernet – One Gigabit Ethernet port on PCI Express bus; one Intel® 82551QM (10/100BaseT) port

VIDEO INTERFACE

- Controller Integrated Intel® 2D/3D engines
- Supports CRT and DBDS display interfaces
- Supports Intel DVMT 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 Embedded Linux*, Windows* CE 5.0, XP, XPe (See Web site 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)
 - 1.4GHz 4.5A@5V
- Environmental
- Temperature (100 CFM system air flow)
 - Standard: 0° to +60°C
 - Extended: -20° to +65°C
 Storage: -20° to +75°C
- Board Thickness .062" (1.6mm)

For more information, pricing, and details on volume discounts, please call us at

1.800.966.5200 or +1.408.360.0200. We'll immediately connect you to your local distributor.

Don't see the product you need? Contact us at 1.800.966.5200 or +1.408.360.0200 for information about our semi-custom and custom solutions.

