



Ampro ReadyBoard™ 800

Pentium® M EPIC Single Board Computer

High Performance, Power Management, Easy Interface



ReadyBoard 800

Choose Ampro ReadyBoard 800 for...

High volume, compact embedded applications that need high CPU and I/O performance, fanless operation and full notebook-style power management.

Description

Ampro ReadyBoard 800 SBC gives you a choice of high performance, low-power Centrino® processors with high speed I/O to match. It includes Gigabit Ethernet, USB 2.0, and high performance graphics in an easy to use compact industry standard form factor SBC.



- Up to 1GB DDR memory
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 Serial, 4 USB 2.0 ports
- ACPI 2.0 with S3 support
- ReadySystem™ turn-key systems available

Ordering Information

MODEL	DESCRIPTION
RBI-800-L-00	600MHz 0kB Cache QuickStart Kit (R-00 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RBI-800-L-01	600MHz 512kB Cache QuickStart Kit (R-01 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RBI-800-L-10	1.0GHz QuickStart Kit (R-10 SBC 512MB RAM, Cable Kit, Software, Documentation)
RBI-800-L-21	1.4GHz QuickStart Kit (R-21 SBC 512MB RAM, Cable Kit, Software, Documentation)
RBI-800-R-00	600MHz ULV Celeron® M CPU, 0kB L2 Cache, PCI-104, single 10/100 Ethernet, ACPI, 4 COM
RBI-800-R-01	600MHz ULV Celeron® M CPU, 512kB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RBI-800-R-10	1.0GHz ULV Celeron® M CPU, 512kB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RBI-800-R-21	1.4GHz LV Pentium® M CPU 2MB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RBI-ALL-X-01	Cable Kit
MM3-ISA-R-01	MiniModule ISA, PCI-104 to PC/104-Plus Bridge

Specifications

PROCESSOR

- Choice of
 - 1.4GHz LowVoltage Pentium® M 738 (Dothan)
 - 1.0GHz Ultra LowVoltage Celeron® M 373 (Dothan)
 - 600MHz Ultra LowVoltage Celeron® M
- Cache – 2MB, 512kB or 0kB Level 2
- Chipset – Intel 855GME/ICH4M
- FSB – 400MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- Real Time Clock – Battery-backed RTC/CMOS
- Watchdog Timer
- Powerfail Reset – Triggers when input voltage drops below predetermined thresholds

MEMORY

- DRAM – Up to 1GB PC2700 DDR333 SODIMM

BUS INTERFACE

- PCI-104 (PCI)
- PCI-104 to PC/104-Plus bridge through optional MiniModule™ ISA card

I/O

- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- CompactFlash on secondary IDE
- Serial – 4 ports, two are RS232/422/485
- 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 (four root hubs)
- Keyboard/Mouse – PS/2 interface
- GPIO – Eight digital I/O pins
- Audio – AC97 speaker, mic, headphone

NETWORK INTERFACE

- Ethernet – One Intel 82541 (1000BaseT) (except R-00) and one Intel 82511 ER (10/100BaseT)

VIDEO INTERFACE

- Controller – Integrated Intel Extreme Graphics 2
 - AGP 128-bit 3D engine
 - Supports resolutions to 2048x1536
 - Up to 64MB UMA Frame Buffer
 - Dual channel LVDS
 - Supports 3.3V and 5V flat panels

SOFTWARE & DEVELOPMENT TOOLS

- OS Support – See Web site for current listings
- BIOS – AMI with ACPI 2.0 including S3

MECHANICAL

- Size – 114.3x165.1mm (4.50x6.50"); EPIC 1.0 Form Factor
- Power Requirements (w/128MB RAM, 100% Loaded)
 - 1.4GHz 3.8A @5V
 - 1.0GHz 3.6A @5V
 - 600MHz 3.0A @5V
- Temperature (100 CFM system air flow)
 - Operating temperature: 0° to +60°C
 - Storage temperature: -20° to +75°C