INDUSTRIAL

Ampro ReadyBoard™ 800

Pentium® M EPIC Single Board Computer
High Performance, Easy Interface

Choose Ampro ReadyBoard™ 800 for…
High volume, compact embedded applications that need high CPU and I/O performance, fanless operation and 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.

RoHS

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

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.

Ordering Information

MODEL	DESCRIPTION
RB1-800-R-08	800MHz ULV Celeron® M CPU, 0kB L2 Cache, PCI-104, dual 10/100 Ethernet, ACPI, 4 COM
RB1-800-R-10	1.0GHz ULV Celeron® M CPU, 512kB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RB1-800-R-21	1.4GHz LV Pentium® M CPU 2MB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RB1-800-R-31*	1.8GHz Pentium® M CPU 2MB L2 Cache, PCI-104, dual Ethernet, ACPI, 4 COM
RB1-800-L-08	800MHz 0kB Cache QuickStart Kit (R-08 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RB1-800-L-10	1.0GHz QuickStart Kit (R-10 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RB1-800-L-21	1.4GHz QuickStart Kit (R-21 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RB1-800-L-31	1.8GHz 2MB Cache QuickStart Kit (R-31 SBC, 512MB RAM, Cable Kit, Software, Documentation)
RB1-ALL-X-01	Cable Kit
MM3-ISA-R-11	MiniModule ISA, PCI-104 to PC/104-Plus Bridge, with mini-PCI socket

* Requires both +5V and +12V to operate; +12V runs the CPU fan.

Specifications

PROCESSORS
- Choice of
  - 1.8GHz Pentium® M 745
  - 1.4GHz LV Pentium® M 738
  - 1.0GHz ULV Celeron® M 373
  - 800MHz ULV 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 PC 2700 DDR333 SODIMM, ECC and non-ECC

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
- Compact Flash 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) and one Intel 82551ER (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 – Ampro Embedded Linux®, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 6.0, 5.0, XP, XPe (See Web site for details)
- BIOS – AMI with ACPI 2.0

MECHANICAL
- Size – 114.3x165.1mm (4.50x6.50"); EPIC 1.0 form factor
- Power Requirements (with 128MB RAM, 100% Loaded)
  - 1.8GHz* 4.0A @5V, 0.07A@12V
  - 1.4GHz 3.7A @5V
  - 1.0GHz 3.4A @5V
  - 800MHz 3.3A @5V
- Environmental
  - Temperature (100 CFM system air flow), CPU fan installed on 1.8GHz model
    - Standard: 0° to +60°C
    - Storage: –20° to +75°C
- Board Thickness – .062" (1.6mm)

AMPRO AN ADLINK COMPANY
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