EXTREME RUGGED

Ampro ETX® 802

Pentium® M Computer-on-Module
Customizable, Power Management

Choose Ampro ETX® 802 for…

Extreme rugged, ultra high performance applications that require full notebook-style power management.

Description

Ampro ETX® 802 is a small, ultra high-performance, low-power Centrino® processor module with advanced networking and high-performance graphics in a modular format that plugs into your custom baseboard.

RoHS

- Up to 1GB DDR Memory
- On-board ISA bridge
- 50% Thicker PCB
- ACPI 2.0 with S3 support

Ordering Information

MODEL	DESCRIPTION
ET1-802-R-08	800MHz ULV Celeron® M CPU, 0KB L2 Cache, ISA, PCI, ACPI, FX8
ET1-802-R-12	1.0GHz ULV Celeron® M CPU, 512KB L2 Cache, ISA, PCI, ACPI
ET1-802-R-22	1.4GHz LV Pentium® M CPU, 2MB L2 Cache, ISA, PCI, ACPI, FX8
ET1-802-L-08	800MHz 0kB Cache QuickStart Kit (R-08 Module, 512MB RAM, Software, Documentation, Ampro AC Baseboard)
ET1-802-L-12	1.0GHz QuickStart Kit (R-12 Module, 512MB RAM, Software, Documentation, Ampro AC Baseboard)
ET1-802-L-22	1.4GHz QuickStart Kit (R-22 Module, 512MB RAM, Software, Documentation, Ampro AC Baseboard)

Specifications

PROCESSORS
- Choice of
  - 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
- Watchdog Timer
- Powerfail Reset –Triggers when input voltage drops below predetermined threshold

MEMORY
- DRAM – Up to 1GB PC2700 DDR333 SODIMM

BUS INTERFACE
- ISA and PCI

I/O
- EIDE –Dual PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- Serial – 2 ports, TTL, transceivers on baseboard
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 or 2 drives, shared with parallel
- USB – 4 USB 2.0 ports (four root hubs)
- Keyboard/Mouse – PS/2 interface
- Audio – AC97 speaker, mic, headphone

NETWORK INTERFACE
- Ethernet – Intel 82551QM (10/100 BaseT) Ethernet with wake-on-LAN

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 flat panel support

SOFTWARE & DEVELOPMENT TOOLS
- OS Support – Ampro Embedded Linux®, VxWorks® v5.5.1, QNX® v6.3, Windows® CE 5.0, XP, XPe (See Web site for details)
- BIOS – AMI with ACPI 2.0 including S3

MECHANICAL
- Size – 95x114mm (3.7x4.5"); ETX® form factor
- Power Requirements (with 128MB RAM, 100% Loaded)
  - 1.4GHz 3.3A @ 5V
  - 1.0GHz 2.8A @ 5V
  - 800MHz 2.7A @ 5V
- Environmental
  - Temperature (100 CFM system air flow)*
    - Standard: –20° to +70°C
    - Optional: –40° to +85°C
    - Storage: –55° to +85°C
- Board Thickness – .093" (2.36mm)

* As measured with Ampro Heatsink Kit and 100 CFM or adequate thermal solution

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.

AMPRO®
5215 Hellyer Ave., San Jose, CA 95138 Tel. 408.360.0200 Fax 408.360.0222 sales@ampro.com

APR.08

NOTICE: The product specifications provided in this datasheet are subject to change without notice. Every effort has been made to ensure the accuracy of this document. Ampro Computers, Inc., makes no warranties, expressed or implied, regarding errors or admissions and assumes no legal liability or responsibility for loss or damage resulting from the use of this document's information. AMPRO is a registered trademark and CoreModule, LittleBoard, Little Board, MightyBoard, MightySystem, MiniModule, ReadyBoard, ReadyPanel and ReadySystem are trademarks of Ampro Computers, Inc. All other trademarks and registered trademarks are the property of their respective owners.