



Ampro XTX 820

Pentium® M Computer-on-Module

Custom, Low Cost, Power Management



XTX 820

Choose Ampro XTX 820 for...

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

Description

Ampro XTX 820 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 existing ETX® baseboard.



- Up to 1GB DDR2 Memory
- PCI Express, SATA
- ACPI 2.0 with S3 support
- Latest chipset, without a baseboard re-design

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
XT4-820-R-12	1.0GHz ULV Celeron® M CPU, 512KB L2 Cache, PCI Express, PCI, ACPI, FX8 (Short) Connectors
XT4-820-R-22	1.4GHz LV Pentium® M CPU, 2MB L2 Cache, PCI Express, PCI, ACPI, FX8 (Short) Connectors
XT4-820-R-32	1.8GHz LV Pentium® M CPU, 2MB L2 Cache, PCI Express, PCI, ACPI, FX8 (Short) Connectors
XT4-820-L-12	1.0GHz QuickStart Kit (R-12 Module, 512MB RAM, Software, Documentation, XTX Baseboard)
XT4-820-L-22	1.4GHz QuickStart Kit (R-22 Module, 512MB RAM, Software, Documentation, XTX Baseboard)
XT4-820-L-32	1.8GHz QuickStart Kit (R-32 Module, 512MB RAM, Software, Documentation, XTX Baseboard)

Specifications

PROCESSORS

- Choice of
 - 1.8GHz Pentium® M 745
 - 1.4GHz LV Pentium® M 738
 - 1.0GHz ULV Celeron® M 373
- Cache – 2MB or 512kB Level 2
- Chipset – Intel 915GME/ICH6M
- FSB – 400MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- Watchdog Timer

MEMORY

- DRAM – Up to 1GB DDR2 400 SODIMM

BUS INTERFACE

- PCI Express 4x1, PCI and LPC

I/O

- EIDE – Single PCI-bus Enhanced Ultra DMA 33/66/100 Synchronous IDE Interface supports up to two hard drives
- SATA – 2 ports
- Serial – 2 ports, TTL, transceivers on baseboard
- Parallel – EPP/ECP bidirectional port
- Floppy – Supports 1 or 2 drives, shared with parallel
- USB – 6 USB 2.0 ports
- Keyboard/Mouse – PS/2 interface
- Audio – AC97 speaker, mic, headphone

NETWORK INTERFACE

- Ethernet – Intel 82562 (10/100BaseT)

VIDEO INTERFACE

- Controller – Integrated Intel GMA 900
 - AGP 256-bit 3D engine
 - Supports resolutions to 2048x1536
 - Up to 224MB DVMT Frame Buffer
 - Dual channel LVDS flat panel support
 - TV Out

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 including S3

MECHANICAL

- Size – 95x114mm (3.7x4.5"); XTX form factor
- Power Requirements (with 128MB RAM, 100% Loaded)
 - 1.8GHz 5.3A @ 5V
 - 1.4GHz 3.9A @ 5V
 - 1.0GHz 3.3A @ 5V
- Environmental
 - Temperature (with adequate thermal solution and air flow)
 - Standard: 0° to +60°C
 - Storage: –20° to +75°C
- Board Thickness – .062" (1.6mm)



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