



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 1 GB DDR Memory
- New XTX standard
- PCI Express, SATA
- ACPI 2.0 with S3 support
- Latest chipset, without a baseboard re-design



Ordering Information

MODEL	DESCRIPTION
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)
XT4-820-R-12	1.0GHz LV Pentium® 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, ACPI, FX8 (Short) Connectors
XT4-820-R-32	1.8GHz LV Pentium® M CPU, 2MB L2 Cache, PCI Express, PCI, ACPI, FX8 (Short) Connectors

Specifications

PROCESSORS

- Choice of
 - 1.8GHz Pentium® M 745 (Dothan)
 - 1.4GHz Low Voltage Pentium® M 738 (Dothan)
 - 1.0GHz Ultra Low Voltage Celeron® M 373 (Dothan)
- Cache – 2MB or 512kB Level 2
- Chipset – Intel 915GM/ICH6M
- 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 threshold

MEMORY

- DRAM – Up to 1 GB DDR2 400 SODIMM

BUS INTERFACE

- PCI Express® 4 x1, 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 (10/100 BaseT)

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

MECHANICAL

- Size – 95x114mm (3.7x4.5"); XTX form factor
- Power Requirements (w/128MB RAM, 100% Loaded)
 - 1.8GHz TBDA @ 5V
 - 1.4GHz TBDA @ 5V
 - 1.0GHz TBDA @ 5V
- Temperature (100 CFM system air flow)
 - Operating: 0° to +60°C
 - Storage: –20° to +75°C