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Find the *Extreme Engineering Solutions XPedite1000* at our website: *Click HERE*

XPedite1000

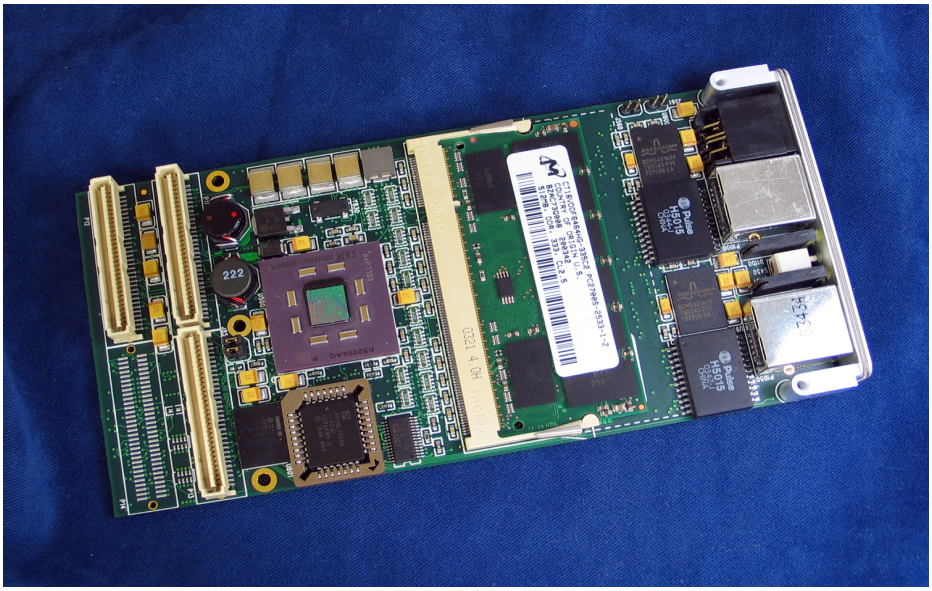
Dual Gigabit Ethernet Processor PMC Module Based on the AMCC 440GX PowerPC Processor

Features

- AMCC PowerPC 440GX 533-800MHz Processor
- 133MHz PCI-X PrPMC Interface
- Up to 512MB SO-DIMM 333MHz DDR SDRAM
- 16-144MB Soldered Flash
- 512KB Socketed Flash
- Two 10/100/1000Mbps Ethernet Ports
- Two RS232 Serial Ports
- Front or Rear I/O
- Integrated 256KB SRAM or L2 Cache
- VxWorks BSP
- Linux LSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP
- LynxOS BSP

Typical Applications

- LAN/WAN Networking
- Processing Node
- Baseboard Controller



XPedite1000 is a high-performance Processor PMC Module (PrPMC). A PCI-X PMC interface provides the system designer with ample bandwidth for I/O intensive applications. Two front panel Ethernet ports provide a flexible I/O interface by auto-negotiating between 10, 100, and 1000 Mbps operation.

XPedite1000 utilizes the low power AMCC PowerPC 440GX embedded Processor. With integrated PCI-X, DDR SDRAM, and Ethernet interfaces, the 440GX offers a highly optimized solution for packet processing and general computing applications. The serial and gigabit Ethernet interfaces are accessible either through the front panel or P14 I/O. A SO-DIMM DDR SDRAM memory slot and socketed boot flash provide flexible field upgradability.

XPedite1000 is ideal for PrPMC applications requiring low cost and power yet high bandwidth and processing performance. The 440GX processor dissipates only 4.5 Watts while operating at 667Mhz and provides 1334 DMIPs of processing power.

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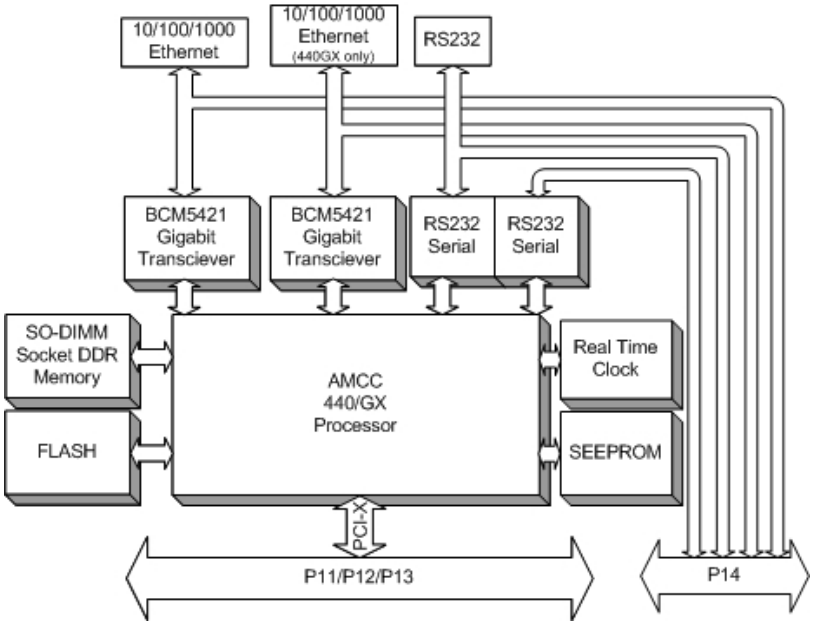
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For more information on XPedite1000:
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Block Diagram

XPedite1000



Processor
- AMCC PowerPC 440GX
- 533-800MHz Processor Speed
- 133MHz PCI-X Interface
- 32K L1 Instruction/Data Caches
- 256KB SRAM or L2 Cache
- 333MHz DDR SDRAM Interface
- 2 Gigabit Ethernet Controllers
- 2 Serial Controllers
- 2 I2C Controllers

Non-Volatile Storage
- 16-144MB Surface Mount Flash
- 512KB Socketed Flash
- 512B Serial EEPROM

Ethernet
- Autonegotiates between 10/100/1000Mbps
- Front Panel / Rear I/O

DDR SDRAM
- SO-DIMM Slot
- Supports up to 512MB
- Operates at up to 333MHz
- Peak memory bandwidth of 2.6GBps

Front Panel I/O
- Two Gigabit Ethernet Ports
- One RS232 Serial Port
- Link and Activity LEDs

Rear I/O
- Two Gigabit Ethernet Ports
- Two RS232 Serial Ports
- One I2C Port

RTC
- M41T00 I2C TimeKeeper
- 60 hour clock retention

Software
- VxWorks BSP
- Linux LSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP
- LynxOS BSP
- Ethernet, I2C, RTC Drivers

Physical
- PMC Form Factor
- 10mm PMC stacking height
- 149mm x 74mm
- Board Weight: 3.7 oz.

Power Requirements (*)
- +3.3V 2.16A 7.13W
- +5.0V 0.00A 0.0W
- +12.0V 0.00A 0.0W
- -12.0V 0.00A 0.0W

Operating Temperature
- 0 to +55C ambient, at board

Humidity
- 0% to 85%

Storage Temperature
- -40 to +70C

*Test Configuration
- CPU at 666MHz
- DDR at 333MHz
- All Interfaces Active

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