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Find the *Extreme Engineering Solutions XPedite3000* at our website: ***Click HERE***

Dual Gigabit Ethernet Processor PMC Module Based on the Broadcom BCM1125 Processor

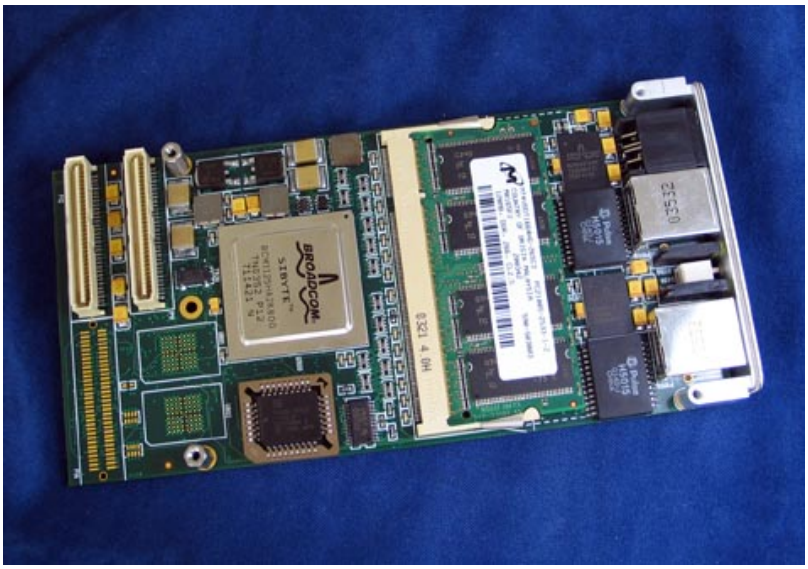
Datasheet

Features

- 64-bit MIPS, 600-800MHz Processor
- 66MHz / 32bit PCI PrPMC Interface
- Up to 1GB Configurable DIMM 333MHz DDR SDRAM
- 4-64MB Soldered Flash
- 512KB Socketed Flash
- Two 10/100/1000 Mbps Ethernet ports
- Two RS232 Serial ports
- Front or Rear I/O
- Integrated 256KB SRAM or L2 Cache
- VxWorks BSP
- Linux LSP

Typical Applications

- LAN/WAN Networking
- Processing Node
- Baseboard Controller



Description

XPedite3000 is a high-performance Processor PMC Module (PrPMC). A PCI 66Mhz 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 autonegotiating between 1000, 100, and 10 Mbs operation.

XPedite3000 utilizes the low power Broadcom BCM1125 embedded Processor. With integrated PCI, DDR SDRAM, and Ethernet interfaces, the BCM1125 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 total of 1GB configurable DIMM DDR SDRAM memory slot and socketed boot flash provide flexible field upgradability.

XPedite3000 is ideal for PrPMC applications requiring low cost and power yet high bandwidth and processing performance. The BCM1125 processor dissipates only 8-10 Watts while operating at 800Mhz.

Processor
- Broadcom BCM1125
- 600-800MHz Processor Speed
- 66MHz PCI Interface
- 32KB L1 Instruction/Data Caches
- 256KB L2 Cache
- 333MHz DDR SDRAM Interface
- 2 Gigabit Ethernet Controllers
- 2 Serial Controllers

Non-Volatile Storage
- 4 - 64MB Surface Mount Flash
- 512KB of Socketed Flash
- 512 Byte Serial EEPROM

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

DDR SDRAM
- Configurable DIMM Slots
- Supports up to 1GB
- 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

RTC
- 60 hour clock retention

Software
- VxWorks BSP
- Linux LSP

Physical
- PMC Form Factor
- 149mm x 74mm

Power Requirements

• +3.3V	2.42A	8.0W
• +5.0V	0.0A	0.0W
• +12.0V	0.00A	0.00W
• -12.0V	0.00A	0.00W

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

Humidity
- 0% to 85%

Storage Temperature
- -40 to +70C

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