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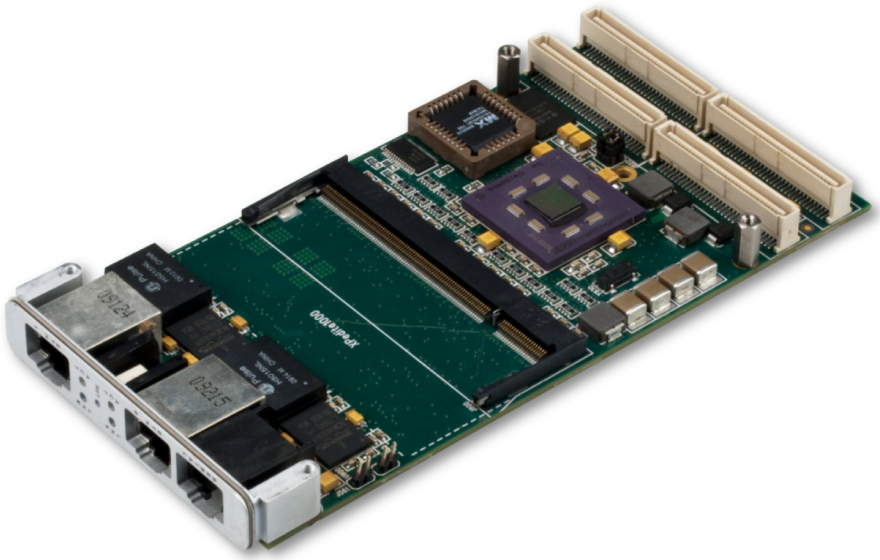
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Find the *Extreme Engineering Solutions XPedite1000* at our website: *Click HERE*

XPedite1000

Applied Micro 440GX PowerPC Processor-Based PrPMC Module with Dual Gigabit Ethernet

- Applied Micro PowerPC 440GX 533-800 MHz processor
- 133 MHz PCI-X PrPMC and local bus interfaces
- Up to 512 MB SO-DIMM DDR-333 SDRAM
- Up to 144 MB soldered flash
- 512 kB socketed flash
- Two front panel Gigabit Ethernet ports
- Two front panel RS-232 serial ports
- Front or rear I/O
- Integrated 256 kB SRAM or L2 cache
- Linux BSP
- Wind River VxWorks BSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP
- LynuxWorks LynxOS BSP



XPedite1000

The XPedite1000 is a high-performance Processor PMC (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.

The XPedite1000 utilizes the low-power Applied Micro 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 upgradeability.

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

X-ES
Extreme Engineering Solutions

...Always Fast

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Processor

- Applied Micro PowerPC 440GX
- 800 MHz max processor speed
- 133 MHz PCI-X interface
- 32 kB L1 instruction/data caches
- 256 kB L2 cache/SRAM
- DDR-333 SDRAM interface
- Two Gigabit Ethernet controllers
- Two I²C controllers

Non-Volatile Storage

- Up to 144 MB surface mount flash
- 512 kB socketed flash
- 512 bytes SEEPROM

Ethernet

- Auto-negotiates between 10/100/1000 Mbps
- Front panel/rear I/O

DDR SDRAM

- SO-DIMM slot
- Up to 512 MB at up to 333 MHz
- 2.6 Gb/s peak bandwidth

Front Panel I/O

- Two Gigabit Ethernet ports
- One RS-232 serial port
- Link and activity LEDS

Rear I/O

- Two Gigabit Ethernet ports
- One RS-232 serial port
- One I²C port

RTC

- M41T00 I²C timekeeper
- 60 hour clock retention

Software

- Linux BSP
- Wind River VxWorks BSP
- QNX Neutrino BSP
- Green Hills INTEGRITY BSP
- LynuxWorks LynxOS BSP
- Ethernet, I²C, and RTC drivers

Physical Characteristics

- PMC form factor
- Dimensions: 149 mm x 74 mm, 10 mm stacking height

Environmental Requirements

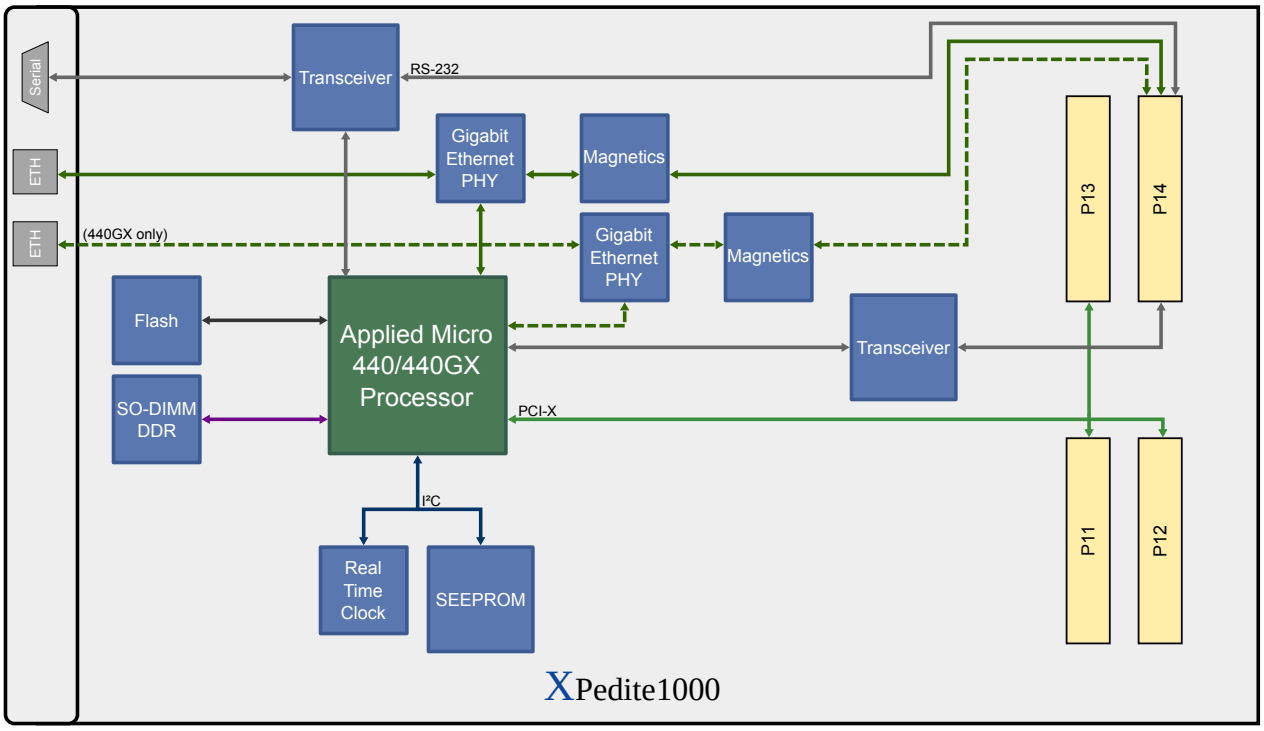
Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1, 3, 5
- Conformal coating available as an ordering option

Power Requirements (Estimate)

- 3.3 V, 2.16 A, 7.13 W

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C ambient
Vibration	0.002 g²/Hz, 5 to 2000 Hz	0.04 g²/Hz (maximum), 5 to 2000 Hz	0.1 g²/Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing



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