

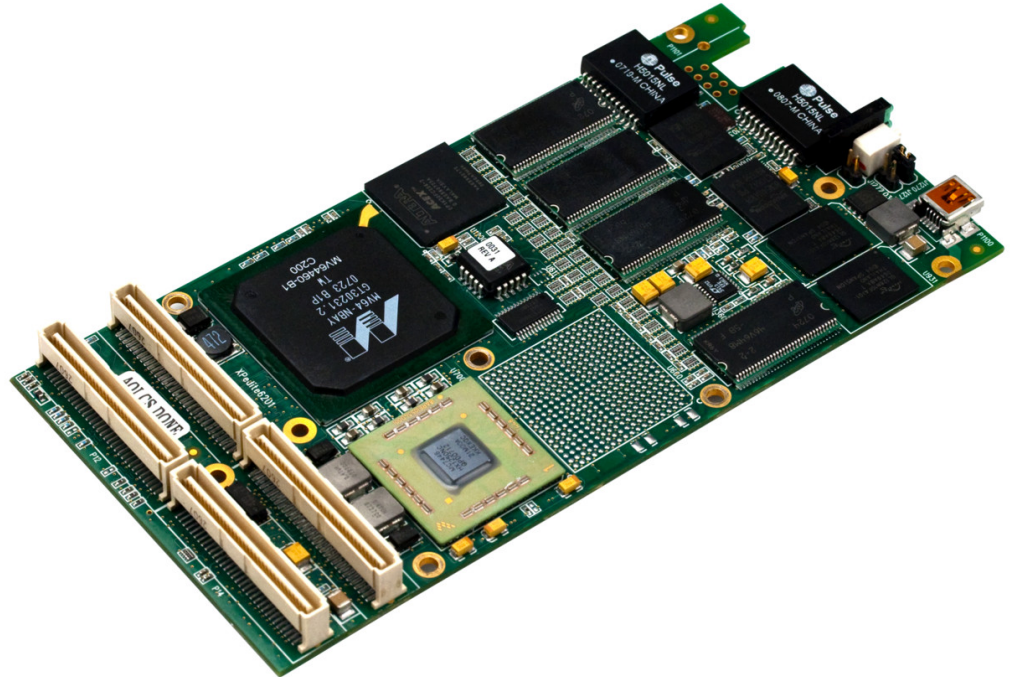
# XPedite6201

**End of Life**

Dual NXP MPC7448 Power Architecture® Processor-Based PMC Module with Two Gigabit Ethernet Ports

Please see XPedite6101

- › Single or dual NXP MPC7448 processor
- › Conduction- or air-cooled 3U cPCI card
- › One conduction- or air-cooled PCI-X PMC slot
- › Extended shock/vibration tolerance
- › Up to 1 GB of DDR-333 SDRAM
- › 128 MB soldered flash
- › Two rear I/O Gigabit Ethernet interfaces
- › Two RS-232 serial ports
- › PMC P14 backplane I/O
- › Linux BSP
- › Wind River VxWorks BSP
- › QNX Neutrino BSP
- › Green Hills INTEGRITY BSP
- › LynuxWorks LynxOS BSP



## XPedite6201

The XPedite6201 is a high-performance PrPMC single board computer. With dual NXP (formerly Freescale) MPC7448 Power Architecture® processors running at up to 1.4 GHz, the XPedite6201 is ideal for the high bandwidth processing requirements of today's blade and general computing applications.

A Marvell Discovery III system controller provides a high-performance communications channel between the processor, a DDR SDRAM interface, two Gigabit Ethernet interfaces, and a PCI-X PMC interface. The XPedite6201 supports up to 1 GB of local DDR-333 memory.

For the system designer, the XPedite6201 provides a feature-rich solution to support the next generation of embedded applications. Board Support Packages (BSPs) are available for Linux, Green Hills INTEGRITY, Wind River VxWorks, LynuxWorks LynxOS, and QNX Neutrino.

# X-ES

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### Extreme Engineering Solutions

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**Processor**

- Dual NXP (formerly Freescale) MPC7448 processors
- 1.4 GHz max processor speed
- 133 MHz bus speed
- 32 kB L1 instruction/data caches
- 1 MB L2 cache

**PCI-X**

- 133 MHz bus
- 64-bit interface

**Non-Volatile Storage**

- Up to 128 MB soldered flash

**DDR SDRAM**

- Up to 1 GB of DDR-333

**Bellcore 1089**

- Front panel Ethernet surge protection

**Possible Ethernet Configurations**

- One front panel port and one P14 port
- Two P14 ports

**Possible RS-232 Serial Configurations**

- One front panel port and one P14 port
- Two P14 ports

**PTMC P14 I/O**

- Supports PTMC configuration 5 Ethernet

**Software**

- Linux BSP
- Wind River VxWorks BSP
- Green Hills INTEGRITY BSP
- QNX Neutrino BSP
- LynuxWorks LynxOS BSP

**Physical Characteristics**

- PMC form factor
- Dimensions: 149 mm x 74 mm, 15 mm stacking height

**Environmental Requirements**

Contact factory for appropriate board configuration based on environmental requirements.

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

**Power Requirements (Estimate)**

- 3.3 V, 8.18 A, 27 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 (maximum)
Vibration	0.002 g <sup>2</sup> /Hz (maximum), 5 to 2000 Hz	0.04 g <sup>2</sup> /Hz (maximum), 5 to 2000 Hz	0.1 g <sup>2</sup> /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

