

# XPedite6244

Freescale MPC7448 PowerPC Processor-Based AMC Module with Gigabit Ethernet, USB, and SATA Support

- ▶ Freescale MPC7448 processor at up to 1.4 GHz
- ▶ Complies to AMC.0 and MicroTCA.0
- ▶ Up to 1 GB DDR-400 SDRAM
- ▶ Up to 64 MB soldered NOR flash
- ▶ Two SFP Ethernet ports
- ▶ Two RS-232 serial ports
- ▶ One USB port
- ▶ Optional Ethernet AMC transport
- ▶ Optional SATA transport
- ▶ Linux BSP
- ▶ Wind River VxWorks BSP
- ▶ QNX Neutrino BSP
- ▶ Green Hills INTEGRITY BSP



## XPedite6244

The XPedite6244 is a high performance AMC single board computer. With a Freescale MPC7448 PowerPC processor running at up to 1.7 GHz, the XPedite6244 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 SFP Gigabit Ethernet interfaces, a USB port, a SATA controller, and a two-port Gigabit Ethernet controller. The XPedite6244 supports up to 1 GB of local DDR memory.

For the system designer, the XPedite6244 provides a feature-rich solution to support the next generation of ATCA and MicroTCA embedded applications. Linux, Wind River VxWorks, Green Hills INTEGRITY, and QNX Neutrino Board Support Packages (BSP) are available.

# X-ES

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### Extreme Engineering Solutions

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**Processor**

- Freescale MPC7448 processor
- 1.4 GHz max processor speed
- 200 MHz bus speed

**Non-Volatile Storage**

- Up to 64 MB soldered flash

**DDR SDRAM**

- Up to 1 GB DDR-400

**Ethernet**

- Two front panel SFP Gigabit Ethernet interfaces
- Two AMC.2 lane 0 and 1 Gigabit interfaces

**Serial**

- One front panel RS-232 port
- One front panel USB port
- One RS-232 AMC I/O port

**SATA II**

- AMC.3 lanes 2 and 3

**Software**

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

**Physical Characteristics**

- AMC form factor
- Dimensions: 180.6 mm x 73.5 mm

**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)**

- +12V, 2.25 A, 25 W

Supported Ruggedization Level	Level 1
Cooling Method	Standard Air-Cooled
Operating Temperature	0 to +55 °C ambient (300 LFM)
Storage Temperature	0 to +85 °C ambient
Vibration	0.002 g <sup>2</sup> /Hz, 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing

