XPedite6244

End of Life

Freescale MPC7448 Power Architecture® Processor-Based AMC Module with Gigabit Ethernet, USB, and SATA Please see XPedite6101

- 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
- Ethernet AMC transport (optional)
- SATA transport (optional)
- 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 Power Architecture® processor running at up to 1.4 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.

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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)

- +12 V, 2.25 A, 25 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