



QEM3572

Dual Port 8Gbps FC & Dual Port 1GbE ExpressModule for Sun™ Blade Servers

Sun Part Number:
SG-XPCIEFCGBE-Q8-Z

Benefits

- Lowest power consumption
- High data integrity on data and control paths
- Enhanced security protection
- Faster (FC) driver deployment and reduced interoperability issues with unified driver model

Features

- Fibre Channel 8Gb & 1GbE to PCI Express (PCIe)
- Hot-pluggable
- 1600 MBps full-duplex per port (FC)
- 200,000 initiator IOPS per port (FC)
- Jumbo frame support (Ethernet)
- 802.1q VLAN tagging support (Ethernet)
- 802.1p priority tagging for Quality of Service (QoS) (Ethernet)

DATA SHEET



QEM3572 Host Bus Adapter. The QEM3572 is a PCI Express, dual port 8Gb Fibre Channel and dual port 1GbE ExpressModule for Sun Blade Servers.

Virtualization Optimized. The QEM3572 supports N_Port ID Virtualization (NPIV) by allowing multiple logical (virtual) connections to share the same physical port. Each logical connection has its own resources and the ability to be managed independently.

RAS Optimized. The QEM3572 provides the highest data integrity by ensuring Overlapping Protection Domains (OPD) on both the control and data paths. The QEM3572 is extremely scalable: users can insert/remove the ExpressModule while the chassis and server are still powered on (hot-pluggable).

Security Optimized. The QEM3572 enables SAN-level authentication by supporting Fibre Channel-Security Protocol (FC-SP).

Management Optimized. The QEM3572 is backward compatible with 4Gb and 2Gb speeds. A single common driver per operating system for three generations of Fibre Channel host bus adapters (8Gb, 4Gb, and 2Gb) simplifies deployment. QLogic's unified driver model (firmware embedded in the driver) eliminates potential interoperability issues between firmware and driver versions. The QEM3572's API compatibility with 4Gb products accelerates deployment while ensuring application compatibility.

Investment Protection. For over 15 years, QLogic has been a technological leader with products that address the current needs of customers, yet provide strong investment protection to support emerging technologies and standards. QLogic stands alone in the industry with its product portfolio depth and experience in successfully delivering technological solutions that address the needs of today and tomorrow.

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Fibre Channel Specifications

Data rate

- 8/4/2 Gbps auto-negotiation

Performance

- 200,000 initiator IOPS per port

Topology

- FC-AL, FC-AL2, point-to-point, switched fabric

Protocols

- FCP-3-SCSI
- FC-TAPE (FCP-2)

Ethernet Specifications

Data rate

- 10/100/1000 Mbps per port

IEEE

- 802.1q VLAN
- 802.1p (priority tagging QoS)
- 802.3 compliant

PCI Express Interface

Compliance

- *PCI Express Base Specification* rev. 2.0
- *PCI Bus Power Management Interface Specification* rev. 1.2

Physical and electrical

- Sun Blade Server PCIe ExpressModule

Platform/Operating System Support

Hardware platforms

- Sun Blade 6000 and 6048 chassis

Operating systems

- Windows Server® 2003 and 2008
- Linux® – RHEL 4.7, RHEL 5.2 Base Server and Advanced Platform
- Novell® SLES 9, 10, 11
- Solaris® 10; OpenSolaris™ 2008.11, 2009
- VMware® ESX/ESXi 3.5 and ESX/ESXi 4.0

HBA Specifications

Airflow

- Provided by Blade Server enclosure

Power consumption

- 11.3 Watts (typical)
- 14.3 Watts (maximum)

Form factor

- PCI ExpressModule

Temperature

- Operating: 0°C/32°F to 55°C/131°F
- Storage: -40°C/-40°F to 70°C/158°F

Relative Humidity

- 10% to 90% (operating, non-condensing)
- 5% to 93% (non-operating, non-condensing)

RoHS compliance

- RoHS 6
- China RoHS

Tools and Utilities

Management tools

- SANsurfer® FC HBA Manager
- SANsurfer FC HBA Command Line Interface (CLI)

Device utilities

- Utilities for flashing bootcode
- Linux scripting tools

Boot support

- BIOS, FCode, UEFI, PXE Ethernet Boot

APIs

- SNIA HBA API V2, SMI-S, FDMI

Agency Approvals — EMI and EMC

US/Canada

- FCC Part 15, Subpart B, Class A; ICES-003, Class A

Europe

- EN55022, Class A and EN55024

New Zealand/Australia

- AS/NZS 3548 Class A

Japan

- VCCI Class A

Agency Approval — Safety

US/Canada

- UL, cUL: UL60950, CSA C22.2, No.60950, Class 1 Laser Product per DHHS 21CFR J

Europe

- 2006/95/EC Low Voltage Directive:
 - TUV: EN60950-1:2001+A11, EN60825-1:1994+A1+A2, EN60825-2:2004

Ordering Information

QEM3572

- The QEM3572 is available from Sun (Sun part number: SG-XPCIEFCGBE-Q8-J)



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