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QME2572

Dual Port 8Gb FC to PCIe Expansion Card for Dell® PowerEdge® Blade Servers

Dell Part Number: R112D

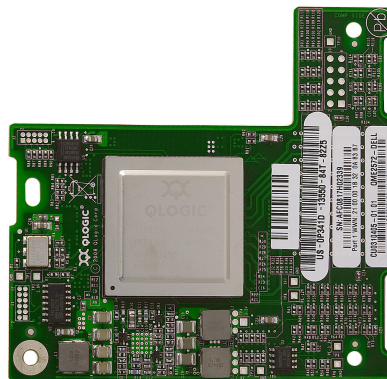
Benefits

- Low power consumption
- High data integrity on data and control paths
- Enhanced security protection
- Fast driver deployment and reduced interoperability issues with unified driver model

Features

- Fibre Channel (FC) 8Gb to PCI Express x8
- Up to 3200 MBps (full-duplex)
- 200,000 initiator IOPS per port
- StarPower™ with Dynamic Power Management and Cool HBA™ technologies

DATA SHEET



QME2572 Host Bus Adapter. The QME2572 is a PCI Express, dual port, Fibre Channel (FC) Host Bus Adapter (HBA) for Dell PowerEdge blade servers.

Virtualization Optimized. The QME2572 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. In addition, the QME2572 supports Dell's FlexAddress by taking on the persistent identity (World Wide Name (WWN)) assigned by the M-Series chassis to the slot in which the QME2572 is installed.

Power Optimized. The QME2572 takes advantage of QLogic StarPower technology, ensuring power efficiency. QLogic StarPower technology offers dynamic power management to provide the necessary PCI Express bandwidth at the lowest power consumption. Low-power switching power supplies and thermally efficient layout allows the QME2572 to operate without any additional airflow, making it a *Cool HBA*.

RAS Optimized. The QME2572 provides the highest data integrity by ensuring Overlapping Protection Domains (OPD) on both the control and data paths. The dual-port design protects against "single point of failure" via PowerEdge midplane routing to redundant switch modules.

Security Optimized. The QME2572 enables SAN-level authentication by supporting Fibre Channel-Security Protocol (FC-SP).

Management Optimized. The QME2572 is backward compatible with 4Gb and 2Gb speeds. A single common driver per operating system for three generations of FC HBAs (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 QME2572'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

Negotiation

- 8/4/2-Gbps auto-negotiation

IOPS

- 200,000 initiator IOPS per port

Class of service

- 3

Topology

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

Protocols

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

PCI Express Interface

Compliance

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

Physical and electrical

- Dell mezzanine slot connector
- StarPower link training
 - Maximum x4 lanes for Gen2 rate
 - Maximum x8 lanes for Gen1 rate

Connectivity

Ports

- Dual 8Gbps Fibre Channel

HBA Specifications

Airflow

- Provided by PowerEdge enclosure

Power consumption

- 5.6 Watts (typical)

Form factor

- Dell PowerEdge mezzanine card

Temperature

- 0°C/32°F to 55°C/131°F (operating)
- -40°C/-40°F to 70°C/158°F (non-operating)

Relative Humidity

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

RoHS compliance

- RoHS 6

Tools and Utilities

Management tools

- SANsurfer® FC HBA Manager
- SANsurfer FC HBA CLI

Device utilities

- Utilities for flashing bootcode
- Linux® scripting tools

Boot support

- BIOS

APIs

- SNIA HBA API V2, SMI-S, FDMI

Platform/Operating System Support

Hardware platforms

- Dell PowerEdge M600
- Dell PowerEdge M605
- Dell PowerEdge M805
- Dell PowerEdge M905

Operating systems

- Windows Server® 2003 and 2008
- Linux Red Hat® AS 4.7, 5.2, or above
- Novell® SLES 10
- VMware® ESX 3.5 and ESXi 3.5 (targeted versions)

Agency Approvals—EMI and EMC

US/Canada

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

Europe

- EN55022, Class A

New Zealand/Australia

- AS/NZS 3548 Class A

Japan

- VCCI V-3/2004.4, Class A

Korea

- MIC

Taiwan

- BSMI (CNS 13438)

Agency Approvals—Safety

US/Canada

- UL, cUL: UL60950, CSA C22.2 No.60950

Europe

- 73/23/ECC Low Voltage Directive:
 - TUV: EN60950-1:2001, EN60825-1:1994+A1+A2, EN60825-2:1994+A1

Ordering Information

QME2572

- The QME2572 is available from Dell (Dell part number: R112D)

Dell has tested and certified the QME2572 QLogic Series HBA with Dell™ PowerEdge™ M600, M605, M805, M905 blade servers and storage systems. Dell specifically disclaims knowledge of the accuracy, completeness or substantiation for all statements and claims made in this document regarding the properties, capabilities, speeds or qualifications of the QLogic 2500 Series adapters.



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