



## DATA SHEET

# QME2572

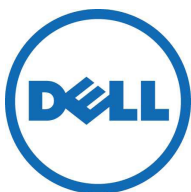
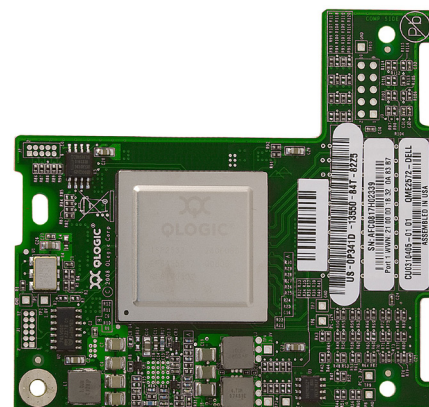
## Dual-Port 8Gb Fibre Channel Blade Mezzanine Card for Dell® PowerEdge® Blade Servers

Dell Part Number 430-3210

### Overview

The QME2572 adapter is designed to meet the demanding business requirements of today's enterprise data center by minimizing power consumption and maximizing data protection. QLogic's unique Dynamic Power Management technology reduces power consumption to the lowest possible level, while the adapter's interface to the host server through a PCIe® Gen2 bus ensures that there are no internal performance bottlenecks.

In addition to satisfying the needs of today's data center through power and virtualization optimization, the QME2572 8Gb adapter provides built-in investment protection by being backward-compatible with previous generations (4Gb and 2Gb) of technology. The adapter also works in both PCI Express® Gen1 and Gen2 host bus interface platforms.



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## Highlights

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

## 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 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" by 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 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 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.

**Fibre Channel Specifications****Negotiation**

- 8/4/2Gbps auto-negotiation

**IOPS**

- 200,000 initiator IOPS per port

**Class of Service**

- Class 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

**Host Bus Adapter 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 Blade Servers: M420, M520, M610, M610x, M620, M710, M710HD, M820, M910, M915

**Operating Systems**

- RHEL® 5.6/5.7/5.8, RHEL 6.1/6.2, SLES® 10 SP3/SP4, SLES 11 SP1/SP2, Citrix® XenServer® 6.0, Citrix XenServer 5.6/5.6 FP1/5.6 SP2, VMware® ESX®/ESXi 4.x/5.0, VMware ESXi 5.0, Windows® 2008 SP2/2008 R2 SP1

**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. Part number: 430-3210

Dell has tested and certified the QLogic QME2572 HBA with Dell PowerEdge 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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Corporate Headquarters QLogic Corporation 26650 Aliso Viejo Parkway Aliso Viejo, CA 92656 949-389-6000

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