



DATA SHEET

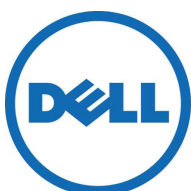
QME2662

Dual-Port 16Gb Gen 5 Fibre Channel Blade Mezzanine Card for Dell PowerEdge Blade Servers Dell Part Number 4GDP5

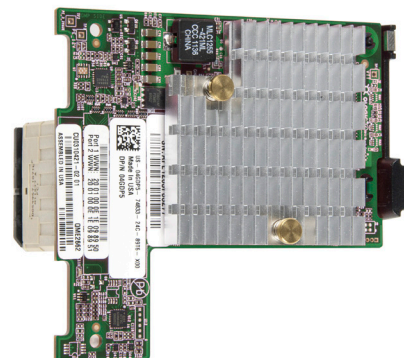
Overview

The 2600 Series Adapters are QLogic Gen 5 Fibre Channel Adapters. They boast industry-leading native Fibre Channel performance—achieving dual-port, line-rate, 16-gigabit Fibre Channel throughput—at extremely low CPU usage with full hardware offloads. This extreme performance eliminates potential I/O bottlenecks in today's powerful multiprocessor, multicore servers.

In addition, support for powerful virtualization features makes this adapter ideal for virtualized environments that need excellent I/O performance to service growing numbers of virtual machines (VMs).



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Highlights

- 16Gbps per port maximum throughput for high bandwidth storage (SAN) traffic
- Over 1.2 million IOPS reduces latency in high transaction intensive applications and virtualized environments
- Reduced hardware, cabling, and management costs by enabling more applications (virtual machines) to run on a single server and Fibre Channel port
- Decreased power and cooling costs by using the fewest PCI Express® lanes in PCIe® Gen3 environments
- Overlapping protection domains (OPDs) to ensure a high level of reliability as data moves to and from the PCI bus and Fibre Channel network
- Complete investment protection for legacy 8Gb Fibre Channel infrastructure

Leadership, Confidence, and Trust

QLogic is the undisputed leader in Fibre Channel Adapters, with over 15 years of experience and five generations of Fibre Channel products that have been qualified by all major server manufacturers in multiple form factors. QLogic owns the most established, proven Fibre Channel stack in the industry with more Fibre Channel ports shipped than any other vendor.

Virtualization Optimized

The 2600 Series adapters, powered by QLogic VMflex™ technology, support standards-based virtualization such as N_Port ID virtualization (NPIV). In addition, line-rate 16Gb Gen 5 throughput and unmatched storage performance maximize the number of VMs that each server can support.

Superior Application Performance

The QLogic 2600 Series of 16Gb Gen 5 Fibre Channel Adapters consume the fewest CPU cycles to drive storage traffic at line rate across all ports. With support for over 1.2 million I/O transactions per second, QLogic adapters deliver the best storage application performance in virtualized and nonvirtualized environments.

Power Optimized

The 2600 Series Adapters use QLogic's StarPower™ technology to provide maximum power efficiency. The adapters offer dynamic power management, which ensures that the PCIe host bus link uses the minimal number of PCIe lanes, regardless of whether the server supports PCIe Gen2 or Gen3, to meet the required Fibre Channel bandwidth. Using fewer PCIe lanes means that these adapters use less power, while continuing to maintain the highest level of Fibre Channel performance.

Investment Protection

The adapters are backward compatible with existing 8Gb Fibre Channel infrastructure.

The adapters are also compatible with the same Fibre Channel software driver stack that has been tested and validated across all major hardware platforms, all major hypervisors and OSs, and has been battle-hardened in millions of previous installations.

Simplified Management

QLogic's new, unified management application, QConvergeConsole® (QCC), provides single-pane-of-glass management for the company's broad product line of storage and networking adapters (Fibre Channel, converged networking, NIC, and iSCSI).

In addition, QLogic supports all major APIs, giving the end user the flexibility to manage their QLogic Fibre Channel adapter portfolio using third-party management tools, including a vCenter™ plug-in for VMware®.

Host Bus Interface Specifications

Bus Interface

- PCI Express Gen3 x4, Gen2 x8

Host Interrupts

- INTx and MSI-X

Compliance

- *PCI Express Base Specification, rev. 3.0; PCI Express Card Electromechanical Specification, rev. 2.0; PCI Bus Power Management Interface Specification, rev. 1.2*

Fibre Channel Specifications

Throughput

- 16Gbps full-duplex line rate per port (maximum)

Logins

- Support for 2,048 concurrent logins and 2,048 active exchanges

Port Virtualization

- NPIV

Compliance

- *SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel Tape (FC-TAPE) Profile, SCSI Fibre Channel Protocol-2 (FCP-2), Second Generation FC Generic Services (FC-GS-2), and Third Generation FC Generic Services (FC-GS-3)*

Tools and Utilities

Management Tools and Device Utilities

- QConvergeConsole: a unified management tool (GUI and CLI) for Fibre Channel/Fibre Channel over Ethernet (FCoE), iSCSI, and networking

Boot Support

- BIOS, UEFI

APIs

- SNIA HBA API V2, SMI-S

Platform/Operating System Support

Hardware Platforms

- Dell PowerEdge® M620, M820, M910, M915

Operating Systems

- RHEL® 5.7/5.8, RHEL 6.2/6.3, SLES® 10 SP4, SLES 11 SP2, Citrix® XenServer® 6.0.1/6.1, VMware ESX®/ESXi Server 4.1 U3, ESX/ESXi 5.0 U2, ESXi 5.1, ESXi 5.5

Physical Specifications

Ports

- Dual-port 16Gbps Gen 5 Fibre Channel

Form Factor

- Dell PowerEdge mezzanine adapter

Power

- 12W (nominal)
- 14W (maximum)

Environment and Equipment Specifications

Temperature

- Operating: 0°C/32°F to 65°C/149°F
- Storage: -20°C/-4°F to 70°C/158°F

Humidity

- Relative (noncondensing): 10% to 90%
- Storage: 5% to 95%

Agency Approvals

Safety

- US, Canada, and Europe

EMI and EMC (Class A)

- US, Canada, Europe, Australia/New Zealand, Japan, Korea

Ordering Information

QME2662

- The QME2662 is available from Dell. Part number: 4GDP5



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