



# QLE2562

## Dual Port 8Gb Fibre Channel to PCI Express Host Bus Adapter

### Benefits

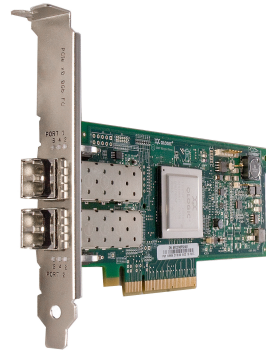
- Virtualization optimized
- Power optimized
- Reliability, Availability, Serviceability (RAS) optimized
- Security optimized
- Management optimized

### Features

- Fibre Channel 8Gb to PCI Express x8
- 3200 MBps (full-duplex)
- 200,000 initiator and target IOPS per port
- StarPower™ technology



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**QLE2562 Host Bus Adapter.** The QLE2562 is a PCI Express, dual port, Fibre Channel (FC) Host Bus Adapter (HBA). The QLE2562 is part of the QLE2500 HBA product family that offers next generation 8Gb FC technology, meeting the business requirements of the enterprise data center.

**Virtualization Optimized.** The QLE2562 delivers enhanced security, Quality of Service (QoS), and enables dynamic provisioning. The QLE2562 allows multiple logical (virtual) connections to share the same physical port. Each logical connection has its own resources and the ability to be managed independently.

**Power Optimized.** The QLE2562 takes advantage of QLogic StarPower technology, ensuring power efficiency. QLogic StarPower technology offers dynamic and adaptive power management features such as power and bandwidth optimized intelligent PCI Express link training, low-power switching power supplies, and thermally efficient layout requiring lower airflows.

**RAS Optimized.** The QLE2562 provides the highest data integrity by ensuring Overlapping Protection Domains (OPD) on both the control and data paths. The QLE2562 also utilizes Enhanced Hardware Assist Firmware Tracing (EHAFT), allowing more comprehensive debugging with standard drivers.

**Security Optimized.** The QLE2562 enables SAN-level authentication (FC-SP), fabric-level isolation (NPIV), and is capable of end-to-end data integrity (T10).

**Management Optimized.** The QLE2562 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 QLE2562'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.

## QLE2562 Dual Port 8Gb Fibre Channel to PCI Express Host Bus Adapter

### Fibre Channel Specifications

#### Negotiation

- 8/4/2Gbps auto-negotiation

#### IOPS

- 200,000 initiator and target IOPS per port

#### Class of service

- 2 and 3

#### Topology

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

#### Protocols

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

#### Cable distances

| Rate  | Multi-Mode Optic            |     |     |
|-------|-----------------------------|-----|-----|
|       | Cable Type and Distance (m) |     |     |
|       | OM1                         | OM2 | OM3 |
| 2Gbps | 150                         | 300 | 500 |
| 4Gbps | 70                          | 150 | 380 |
| 8Gbps | 21                          | 50  | 150 |

### PCI Express Interface

#### Compliance

- PCI Express Base Specification rev. 2.0
- PCI Express Card Electromechanical Specification rev. 2.0
- PCI Bus Power Management Interface Specification rev. 1.2
- PCI Hot Plug Specification rev. 1.0

#### Physical and electrical

- PCIe x8 physical connector
- StarPower link training
  - Maximum x4 lanes for Gen2 rate
  - Maximum x8 lanes for Gen1 rate

### Connectivity

#### Ports

- Dual 8Gbps Fibre Channel
- SFP+ with LC-style connector

### HBA Specifications

#### Airflow

- No airflow required

#### Power consumption

- 6.2 Watts (typical)

#### Form factor

- Low-profile PCI Express card (6.6 in. x 2.54 in.)

#### Temperature

- 0 to 55°C (operating)
- -40 to 70°C (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, FCode, UEFi, EFI

#### APIs

- SNIA HBA API V2, SMI-S, FDMI

### Platform/Operating System Support

#### Hardware platforms

- IA32 (x86), IA64, Intel® 64
- AMD™ Opteron64
- Sun™ SPARC®

#### Operating systems

- Windows® Server™ 2003, Windows XP Pro x64, Windows Vista™ (Business and Enterprise), Windows Server 2008
- Solaris™ 10 (x86 and SPARC)
- Red Hat® AS 5.x, 4.x

- Novell® SLES 10, 9
- VMware® ESX Server 3.5 and 3i (targeted versions)
- NetWare® 6.5

### 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, Class 1 Laser Product per DHHS 21CFR J

#### Europe

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

### Ordering Information

#### QLE2562-CK

- Ships in an individually packed box with a standard size bracket, a spare low-profile bracket, SANsurfer FC HBAs CD, and Quick Start Guide

#### QLE2562-BK

- Ships in a bulk box in quantities of 20 or 50 with standard size brackets



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