

The Ultimate in Performance

QLE2564

Quad Port 8Gb Fibre Channel to PCI Express Adapter

Benefits

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

Features

- Fibre Channel 8Gb to PCI Express x8
- 1600 MBps (full duplex) per port
- 200,000 initiator and target IOPS per port
- Increased connectivity in 1U servers





QLE2564 Host Bus Adapter. The QLE2564 is a PCI Express, quad port, Fibre Channel (FC) adapter. The QLE2564 is part of the QLE2500 8Gb adapter product family that offers next generation 8Gb FC technology, meeting the business requirements of the enterprise data center.

Virtualization Optimized. The QLE2564 delivers enhanced security, Quality of Service (QoS), and enables dynamic provisioning. The QLE2564 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.

Form-Factor Enhancement. The QLE2564 has been designed with a length of 6.6 inches (167.6 mm), allowing additional support for dense 1U Gen2 rack servers and increasing connectivity, which was not available with the standard 8.0-inch (203.2 mm) length of the 4Gb adapter product.

RAS Optimized. The QLE2564 provides the highest data integrity by ensuring Overlapping Protection Domains (OPD) on both the control and data paths.

Security Optimized. The QLE2564 enables SAN-level authentication (FC-SP), fabric-level isolation (NPIV), and is capable of end-to-end data integrity (T10).

Management Optimized. The QLE2564 is backward compatible with 4Gb and 2Gb speeds. A single common driver per operating system for three generations of FC 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 QLE2564'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

· 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)

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

- PCle x8 physical connector
- Maximum x8 lanes for Gen1 and Gen2 rates

Platforms

Hardware platforms

- IA32 (x86), IA64, Intel[®] 64
- AMDTM Opteron64
- Sun™ SPARC®

Tools and Utilities

Management tools and device utilities

- SANsurfer® FC HBA Manager
- SANsurfer FC HBA CLI
- Utilities for flashing bootcode
- Linux[®] scripting tools
- · Windows PowerShell virtual port scripts

Boot support

· BIOS, FCode, UEFI, EFI

• SNIA HBA API V2, SMI-S, FDMI

Operating systems

- Windows® Server™ 2003, Windows XP Pro x64, Windows Vista™ (Business and Enterprise), Windows Server 2008
- Solaris™ 10 (x86 and SPARC, Open Solaris)
- Red Hat® AS 5.x, 4.x
- Novell® SLES 11, 10, 9
- VMware® ESX/ESXi 3.5
- NetWare® 6.5

Physical Specifications

- · Quad 8Gbps Fibre Channel
- SFP+ with LC-style connector

Form factor

• 6.6 in x 4.376 in (167.6 mm x 111.2mm)

Environment and Equipment Specifications

Airflow

· No airflow required

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)

Power consumption

• 13W (typical)

RoHS compliance

RoHS 6

Cable distances

| | Multi-Mode Optic | | |
|-------|-----------------------------|-----|--------------|
| | Cable Type and Distance (m) | | |
| Rate | OM1 | OM2 | O M 3 |
| 2Gbps | 150 | 300 | 500 |
| 4Gbps | 70 | 150 | 380 |
| 8Gbps | 21 | 50 | 150 |

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

QLE2564-CK

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

QLE2564-BK

. Ships in a bulk box in quantities of 10 with standard size brackets



























The Ultimate in Performance

Corporate Headquarters QLogic Corporation 26650 Aliso Viejo Parkway Aliso Viejo, CA 92656 949.389.6000

Europe Headquarters QLogic (UK) LTD. Quatro House Lyon Way, Frimley Camberley Surrey, GU16 7ER UK +44 (0) 1276 804 670

www.qlogic.com

© 2008–2009 QLogic Corporation. Specifications are subject to change without notice. All rights reserved worldwide. QLogic and the QLogic logo, and SANsurfer are registered trademarks of QLogic Corporation. Windows, Windows Server, and Windows Vista are trademarks or registered trademarks of Microsoft Corporation. Linux is a registered trademark of Linus Torvalds. Novell, Inc. Winware is a registered trademark of Linus Torvalds. Novell and NetWare are registered trademark of Novell, Inc. Winware is a registered trademark of Advanced Micro Devices, Inc. SPARC is a registered trademark of Intel Corporation AMD is a trademark of Advanced Micro Devices, Inc. SPARC is a registered trademark of Intel Corporation AMD is a trademark of Advanced Micro Devices, Inc. SPARC is a registered trademark or registered trademarks or registered trademarks of Micro Devices, Inc. SPARC is a registered trademark or registered trademarks or registered tra

PX2858008-00 B 2