



Product Bulletin:

QLogic 8Gb HBA – QLE2560 / QLE2562

Revision History

October 14, 2008 - Initial version

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces the availability of the QLogic QLE family of 8Gb Fibre Channel Enterprise HBAs.

The QLE2560 is a PCI Express, single port, Fibre Channel (FC) host bus adapter (HBA). The QLE2560 is part of the QLE2500 HBA product family, which offers next-generation 8Gb FC technology to meet the business requirements of the enterprise data center. The QLE2562 is the dual port option.

These offerings represent the latest technology from QLogic and are a component in NetApp's broad SAN arsenal.

2. What's New?

To support the increased bandwidth demands of today's data centers, the QLogic QLE2560 family of

HBA enables customers to transition from 4Gb to 8Gb Fibre Channel. Key features of the QLE2560 and 2562 HBAs include:

- **Virtualization optimized.** The QLE2560 delivers enhanced security and quality of service (QoS) and enables dynamic provisioning.
- **Power optimized.** The QLE2560 takes advantage of QLogic StarPower technology for enhanced power efficiency.
- **RAS optimized.** The QLE2560 provides the highest data integrity with Overlapping Protection Domains (OPDs) on both the control and data paths. The QLE2560 also uses Enhanced Hardware Assist Firmware Tracing (EHAFT), allowing more comprehensive debugging with standard drivers.
- **Security optimized.** The QLE2560 enables SAN-level authentication (FC-SP) and fabric-level isolation (NPIV).
- **Management optimized.** The QLE2560 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.

3. Sales Tools (Sales Guides, Training Presentations, SE Presentations)

N/A

4. Customer-Ready Tools (Customer Presentations, Datasheets)

N/A

5. System Requirements

Reference the NetApp Interoperability Matrix [here](#) for the latest support and configuration information.

6. Product Information

QLogic 8Gb HBA – QLE2560, QLE2562

Part Number	Description	Discount Category
X1094A-R6	HBA,QLogic QLE2560,1-Port,8Gb,PCIe,R6	C
X1095A-R6	HBA,QLogic QLE2562,2-Port,8Gb,PCIe,R6	C

Negotiation

- 8/4/2Gb/sec auto-negotiation

Class of service

- Class 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 2.0
- PCI Express Card Electromechanical Specification 2.0
- PCI Bus Power Management Interface Specification 1.2
- PCI Hot Plug Specification 1.0

Physical and electrical

- PCIe x8 physical connector

Connectivity/Ports

- SFP+ with LC-style connector

Airflow

- No airflow required

Power consumption

- 5.5 Watts (typical –single port)

Form factor

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

Temperature

- 0 to 55°C (operating)
- -40 to 70°C (nonoperating)

Relative Humidity

- 10% to 90% (operating, noncondensing)
- 5% to 93% (nonoperating, noncondensing)

RoHS compliance

- RoHS 6

Management tools

- SANsurfer FC HBA Manager, SANsurfer FC HBA CLI

Boot support

- BIOS, FCode, UEFI, EFI

7. Regulatory Compliance

The QLogic QLE2560 and QLE2562 meet all defined NetApp EMI and RoHS compliance requirements.

8. Warranty and Service

QLogic QLE2560 and QLE2562 HBAs offer a three-year warranty.

Service for the QLogic QLE2560 and QLE2562 HBAs will be handled in the same manner as the existing QLogic products sold today, which is RMA via depot-based sparing.

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.

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495 E. Java Drive, Sunnyvale, CA 94089 USA