

Qlogic QLE2462 Datasheet



Genuine Qlogic QLE2462-CK PCI Express x4 Dual-port 4Gb Fibre Channel Host Bus Adapter

QLE2462

QLE2462 Host Bus Adapter.

The QLE2462 is the industry's first, true enterprise class, 4Gbps-to-PCI Express® x4 adapter. The QLE2462 delivers unprecedented levels of performance and availability, as well as intelligent networking features specific to enterprise class data centers.

Enterprise Class Features.

The QLE2462 adapter is the highest performing and most reliable adapter in the industry. It delivers unmatched performance by leveraging a single ASIC design, combining a unique hardware architecture to deliver over 300,000 IOPS, nearly 1.6GBps throughput, and support for PCI Express x4 bus speeds. More importantly, the QLE2462 adapter provides new intelligent storage networking features that redefine the enterprise class adapter, providing increased data protection, advanced frame routing, and enterprise-wide management capabilities.

Simplified Setup.

Point-and-click installation and configuration wizards simplify the adapter setup process. Storage administrators can quickly deploy adapters across a SAN using standard adapter management tools and device utilities. The QLE2462 is

fully compatible with SNIA API and SMI-S, thereby allowing administrators to manage QLogic adapters using third-party software applications.

Comprehensive OS Support.

QLogic offers the broadest range of support for all major operating systems to ensure OS and hardware server compatibility. Drivers are available for all major operating systems and hardware server platforms. A single driver strategy per OS allows storage administrators to easily deploy and manage adapters in heterogeneous SAN configurations.

Guaranteed Interoperability.

Storage partner certifications, combined with agency and regulatory testing, ensures all products meet world compliance hardware and software specifications. All adapters are tested extensively with third-party hardware, along with multiple software applications, to ensure best in-class SAN interoperability and compatibility. You can be confident purchasing QLogic adapters to meet your Fibre Channel storage networking needs.

Investment Protection.

For over 15 years, QLogic has been a technological leader with products that address the customer's current needs. In addition, QLogic provides 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.

High Performance

300,000 IOPS delivers high I/O transfer rates for storage applications.

Intelligent interleaved DMA (iiDMA) ensures maximum utilization of data links.

Out-of-order frame reassembly (OoOFR) reduces congestion and retransmissions.

Superior Scalability

Multi-ID and N_Port virtualization ready. Allows physical ports to be part of multiple logical networks.

Cisco® VSAN ready. Allows physical ports to be part of multiple logical networks.

Comprehensive operating system (OS) driver support including Windows®, Linux®, Solaris®, NetWare®, Mac OS®, Citrix®, Oracle®, and VMware®.

Universal boot support manages multiple hardware platforms and boot options.

Enhanced Reliability

Overlapping protection domains for continuous protection of internal data paths.

T10 cyclic redundancy check (CRC) ensures end-to-end data integrity across storage area networks (SANs)

Three LEDs per port display real-time status and link activity information

Host Bus Interface Specifications

- Bus interface
 - PCI Express x4
- Memory
 - 1MB SRAM per port, 1MB flash (SPI), and 2KB NVRAM (SPI)
- Hardware platforms
 - IA32 (x86), IA64, IEM64T, AMD Opteron™ 64, Sun™ SPARC®, Apple® G5 (Xserve® and Power Mac®)
- Compliance
 - PCI Express Base Specification, revision 1.0a, PCI Express Card Electromechanical Specification, revision 1.0, PCI Bus Power Management Interface Specification, revision 1.1

Fibre Channel Specifications

- Data rate
 - 4/2/1Gbps auto-negotiation (4.2480/2.1240/1.0625Gbps)
- Performance
 - 150,000 IOPS per port
- Topology
 - Point-to-point (N_Port), arbitrated loop (NL_Port), switched fabric (N_Port)
- Logins
 - Support for F_Port and FL_Port login: 2,048 concurrent logins and 2,048 active exchanges per port
- Class of service
 - Class 2 and 3
- Protocols
 - FCP (SCSI-FCP), FC-TAPE (FCP-2)
- Compliance
 - SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel Physical and Signaling Interface (FC-PH), Fibre Channel 2nd Generation (FC-PH-2), Third Generation Fibre Channel Physical and Signaling Interface (FC-PH-3), Fibre Channel-Arbitrated Loop (FC-AL-2), Fibre Channel Fabric Loop Attachment Technical Report (FC-FLA), Fibre Channel-Private

Ordering Information

- QLE2462-CK
 - Ships in an individually packed box with a standard size bracket, a spare low-profile bracket, a SANsurfer Fibre Channel HBA Manager CD, and a Quick Start Guide
- QLE2462-BK
 - Ships in a bulk box in quantities of 20 and 50 with standard size brackets

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