Qlogic QLA2460 Datasheet

Genuine Qlogic QLA2460-CK PCI-X Single-port 4Gb Fibre Channel Host Bus Adapter

QLA2460

The QLA2460 is the industry's first, true enterprise class, 4-Gbps to PCI-X 2.0 Host Bus Adapter. The QLA2460 not only delivers unprecedented levels of performance and availability, but also intelligent networking features specific to enterprise class data centers. The QLA2460 HBA is the highest performing and most reliable HBA in the industry. It delivers unmatched performance by leveraging a single ASIC design, combining a unique hardware architecture, and support for the PCI-X 2.0 266-MHz DDR bus speed. More importantly, the QLA2460 HBA provides new intelligent storage networking features that redefine the enterprise class HBA, providing increased data protection, advanced frame routing, and enterprise wide management capabilities.

High Performance

- 150,000 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 display real-time status and link activity information.

Host Bus Interface Specifications

- Bus Interface: 64-bit, PCI-X® 2.0 266MHz DDR, compatible with66/33MHz PCI and 133/100/66MHz PCI-X
- Memory: 1MB SRAM per port, 1MB flash (SPI), and 2KB NVRAM (SPI)
- Hardware Platforms1: IA32 (x86), IA64, IEM64T, AMD® Opteron™ 64, Sun®, SPARC®, Apple® G5 (Xserve® and Power Mac®)
- Compliance: PCI Local Bus Specification, revision 2.3, PCI-X Protocol Addendum to the PCI Local Bus Specification, revision 2.0a, PCI-X Electrical and Mechanical Addendum (revision 2.0a) to the PCI Local Bus Specification, PCI Bus Power Management Interface Specification revision 1.1, PCI Hot Plug Specification, revision 1.0

Fibre Channel Specifications

- Data Rate: 4/2/1Gbps auto-negotiation (4.25/2.125/1.0625GBps)
- 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-TA PE (FCP-2)
- Compliance: SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel Physical and Signaling Interface (FCPH), Fibre Channel 2nd Generation (FC-PH-2), Third Generation Fibre Channel Physical and Signaling Interface (FC-

PH-3), Fibre Channel-Arbitrated Loop (FCAL- 2), Fibre Channel Fabric Loop Attachment Technical Report (FC-FLA), Fibre Channel-Private Loop Direct Attach Technical Report (FC-PLDA), Fibre Channel Tape (FC-TAPE) profile, SCSI Fibre Channel Protocol-2 (FCP-2), Second Generation Fibre Channel Generic Services (FC-GS-2), Third Generation Fibre Channel Generic Services (FC-GS-3), Fibre Channel Framing and Signaling (FC-FS)

Ordering Information

- QLA2460-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
- QLA2460-BK
    - Ships in a bulk box in quantities of 20 and 50 with standard size brackets

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