

QLogic QLE2660 Datasheet



Genuine QLogic QLE2660-CK PCI Express Single-port 16Gb Fibre Channel Host Bus Adapter

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The QLogic 16 Gb FC Single-port and Dual-port Host Bus Adapters (HBAs) are sixth generation Fibre Channel Adapters. They offer 16 Gbps line-rate performance at extremely low CPU utilization with full hardware offloads. Support for powerful virtualization features make this adapter ideal for virtualized environments that need excellent input/output (I/O) performance to service growing numbers of virtual machines (VMs).

Features

The QLogic 16Gb FC Single-port and Dual-port HBAs have the following features:

- Port architecture that offers independent functionality on each port -- independent CPU, isolated memory and independent firmware image -- provides higher reliability and predictable performance.
- Support for Message Signaled Interrupts eXtended (MSI-X) improves host utilization and enhances application performance.
- Support for 16 Gb, 8 Gb, and 4 Gb FC devices.
- Full hardware offload for Fibre Channel protocol.
- Support for PCIe 2.0 and PCIe 3.0 host interfaces.
- Comprehensive virtualization capabilities with support for N_Port ID Virtualization (NPIV) with 255 N_Port IDs per port.
- Host-to-fabric Fibre Channel Security Protocol (FC-SP) authentication.
- A common driver model allows a single driver to support all QLogic HBAs on a given operating system.

- Universal boot capability allows the appropriate boot environment to be automatically selected for any given hardware.
- Boot from SAN capability reduces the system management costs and increases uptime.

Technical specifications

The QLogic 16Gb FC Single-port and Dual-port HBAs have the following specifications:

- Based on the QLogic QLE2660 (single port) and QLE2662 (dual port) adapters
- Host interface: PCI Express 2.0 x8 or PCI Express 3.0 x4 (physical connector is PCIe x8)
- Single-port or dual-port SFP+ based adapters
- Support for 16 Gb, 8 Gb and 4 Gb FC link speeds, which are automatically negotiated
- Data rate: 14.025 Gbps (1600 MBps), 8.5 Gbps (800 MBps), and 4.25 Gbps (400 MBps) autosensing (per port), with full duplex
- Performance: Over 500,000 IOPS per port (over 1,200,000 IOPS per dual-port adapter)
- Throughput: 3,200 MB per port, full-duplex
- 2048 concurrent logins
- 255 N_Port IDs (NPIV) per port
- Industry standards:
 - Current ANSI/IETF standards: FC-PI-4, FC-PI-5, FC-FS-2 with amendment 1, FC-AL-2 with amendments 1 and 2, FC-LS-2, FC-GS-6, FC-DA, FC-SP-2, FCP-4, FC-MJS, FC-SB-4, FC-SP, SPC-4, SBC-3, SSC-3, and RFC4338
 - Legacy ANSI/IETF standards: FC-PH, FC-PH-2, FC-PH-3, FC-PI, FC-PI-2, FC-FS, FC-AL, FC-GS-2/3/4/5, FCP, FCP-2, FC-SB-2, FC-FLA, FC-HBA, FC-PLDA, FC-TAPE, FC-MI, SPC-3, SBC-2, SSC-2, and RFC2625
- Topology: Point-to-point and switched fabric
- Supported media: 16 Gbps Fibre Channel LC SFP+ short wave optical transceivers (850 nm), hot-pluggable
- Management software:
 - The QLogic QConvergeConsole (QCC) management software delivers a unified web based single-pane-of-glass management console across the QLogic family of storage and networking adapters. A graphical user interface (GUI) or command line interface (CLI) are available. A VMware vCenter plug-in is also available.
 - Common IT tasks, such as VLAN configuration and teaming, can be easily accomplished either through QConvergeConsole or through native OS tools, thereby minimizing IT training and deployment costs.
 - Role-based authentication allows for separate logins and access for SAN and LAN administrators. This eliminates the need to change your organizational structure as you converge your network.

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