

Qlogic QLE2740 Datasheet



Genuine Qlogic QLE2740-SR-CK PCIe 3.0 x8 Single-port 32GFC SR-Optic SFP+ 32Gb Fibre Channel Adapter

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The Marvell QLogic 2740/2760 Series Adapters are the industry's first 32GFC Host Bus Adapters (HBAs) available in single, dual, and quad ports. Designed with full hardware offloads, the 2740/2760 Series Adapters boast industry-leading native FC performance with extremely low CPU usage.

32GFC Technology

Marvell QLogic FC technology provides the industry's first 32GFC adapter. This solution offers higher per-port performance (up to 650K IOPS) with lower power consumption. In addition, Marvell StorFusion™ technology delivers streamlined provisioning, guaranteed QoS, and improved resiliency with in-built forward error correction (FEC). These features address the needs of IT organizations that require reliability, integrated management, and guaranteed network performance.

Marvell QLogic FC technology resolves data center complexities by enabling a storage network infrastructure that supports powerful virtualization features, application-aware services, and simplified management. The 2740/2760 Series Adapters provide advanced storage networking features capable of supporting the most demanding virtualized and private cloud environments. These features fully leverage the capabilities of high-performance 32GFC, all-flash arrays (AFAs), and demanding enterprise applications. Powerful management tools automate and simplify Storage Area Network (SAN) provisioning to help reduce cost and complexity, while the 32GFC line rate performance eliminates potential I/O bottlenecks in today's powerful multiprocessor, multicore servers.

Features

- Industry's first 32GFC HBA available in single, dual, and quad-port versions
- Up to four ports of 32GFC deliver 25,600MBps aggregate throughput
- Up to 2.6 million IOPS fuel high performance in AFA and high-density virtualized environments
- FC-NVMe capability allows simultaneous access to NVMe and FCP Storage on the same port
- StorFusion technology, powered by Marvell QLogic, enhances reliability, diagnostics, and accelerates deployment
- Port isolation design offers deterministic and scalable performance on each port

Host Bus Interface Specifications

- Bus Interface
 - QLE2740: PCI Express® (PCIe) 3.1 × 8 (single-port)
 - QLE2742: PCIe 3.1 × 8 (dual-port)
 - QLE2764: PCIe 3.1 × 16 (quad-port)
- Host Interrupts
 - INTx and MSI-X
- Compliance
 - PCIe Base Specification, rev. 3.1
 - PCIe Card Electromechanical Specification, rev. 3.0
 - PCI Bus Power Management Interface Specification, rev. 1.2
 - PCI Hot Plug Specification, rev. 1.1

Fibre Channel Specifications

- Throughput
 - 6,400MBps full duplex line rate per port
- Logins
 - Support for 2,048 concurrent logins and 2,048 active exchanges per port
 - Expandable to 32K concurrent logins and 32K active exchanges (QLE2764)
- Port Virtualization
 - NPIV
- Compliance

- SCSI Fibre Channel Protocol 4 (FCP-4)
- Fibre Channel Tape (FC-TAPE) Profile
- Fibre Channel Generic Services 8 (FC-GS-8)
- Fibre Channel-Physical Interface-5 (FC-PI-5)
- Fibre Channel-Physical Interface-6 (FC-PI-6)
- Fibre Channel Link Services 4 (FC-LS-5)
- Fibre Channel Framing and Signaling 5 (FC-FS-5)
- Fibre Channel NVMe-2 (FC-NVMe-2)

Physical Specifications

- Ports
 - QLE2740: single-port 32GFC
 - QLE2742: dual-port 32GFC
 - QLE2764: quad-port 32GFC
- Form Factor
 - QLE2740: low profile PCIe card (6.6 inches × 2.731 inches)
 - QLE2742: low profile PCIe card (6.6 inches × 2.731 inches)
 - QLE2764: standard height PCIe card (6.6 inches × 4.38 inches)

Ordering Information

- QLE2740-SR-CK (Single Port)
 - Ships in an individually packed box with a standard-height bracket installed
 - Ships with SR optical transceiver installed
- QLE2742-SR-CK (Dual Port)
 - Ships in an individually packed box with a standard-height bracket installed
 - Ships with SR optical transceivers installed
- QLE2764-SR-CK (Quad Port)
 - Ships in an individually packed box with a standard-height bracket installed
 - Ships with SR optical transceivers installed

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