

Qlogic QLE2692 Datasheet



Genuine Qlogic QLE2692-SR-CK PCIe 3.0 x8 Dual-port 16GFC SR-Optic SFP+ Low Profile 16Gb Fibre Channel Adapter
QLE2692

The Marvell QLogic QLE2690 single-port and QLE2692 dual-port Enhanced 16Gb FC (16GFC) HBAs boast industry-leading native FC performance with extremely low CPU usage and full hardware offloads.

Enhanced 16GFC

Compared to 16GFC, the Marvell QLogic Enhanced 16GFC solution offers higher per-port performance (up to 650K IOPS) with low power consumption. In addition, Marvell StorFusion technology delivers streamlined provisioning, QoS, and improved resiliency while addressing the needs of IT organizations that require reliability, integrated management, and guaranteed network performance. Enhanced 16GFC technology resolves data center complexities by enabling a storage network infrastructure that supports powerful virtualization features, application-aware services, and simplified management. The QLE2690/2692 Adapters provide advanced storage networking features capable of supporting the most demanding virtualized and private cloud environments, while fully leveraging the capabilities of high-performance 16GFC and all-flash arrays (AFAs). Powerful management tools automate and simplify SAN provisioning to help reduce cost and complexity, while the unmatched 16GFC performance eliminates potential I/O bottlenecks in today's powerful multiprocessor, multicore servers.

Features

- The latest and most advanced 16GFC HBA from Marvell, available in single- and dual-port versions
- Up to 1.3 million IOPS fuel high performance in AFA and high-density virtualized environments
- Marvell StorFusion™ technology accelerates deployment, simplifies diagnostics, enhances reliability, and

optimizes performance

- NVMe over Fibre Channel capability allows simultaneous access to NVMe and SCSI based Storage on the same port
- Port isolation design offers deterministic and scalable performance on each port

Host Bus Interface Specifications

- Bus Interface
 - QLE2690/2692 PCI Express® (PCIe®) 3.0 x8.
- Host Interrupts
 - INTx and MSI-X
- Compliance
 - PCI Express Base Specification, Rev. 3.1
 - PCI Express 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
 - 3,200MBps full duplex line rate per port
- Logins
 - Support for 2,048 concurrent logins and 2,048 active exchanges per port
- Port Virtualization
 - NPIV
- Compliance
 - Fibre Channel Physical Interface 5 (FC-PI5)
 - Fibre Channel Tape (FC-TAPE) Profile
 - SCSI Fibre Channel Protocol-4 (FCP-4)
 - SCSI-3 Fibre Channel Protocol (SCSI-FCP)
 - Second Generation Fibre Channel Generic Services (FC-GS-2)
 - Third Generation Fibre Channel Generic Services (FC-GS-3)
 - Fibre Channel-NVMe-2 (FC-NVMe-2)

Physical Specifications

- Ports
 - QLE2690: single-port, 16GFC
 - QLE2692: dual-port, 16GFC
- Form Factor
 - Low-profile PCIe card (6.6 inches × 2.731 inches)
 - Custom form factors are also available

Ordering Information

- QLE2690-SR-CK (Single Port)
 - Ships in an individually packed box with a standard-height bracket installed
 - Ships with SR optical transceiver installed
- QLE2690-SR-BK (Single Port)
 - Ships with a standard-height bracket installed
 - Ships with SR optical transceiver installed
 - Minimum Order Quantity (MOQ): 20 units
- QLE2692-SR-CK (Dual Port)
 - Ships in an individually packed box with a standard-height bracket installed
 - Ships with SR optical transceivers installed
- QLE2692-SR-BK (Dual Port)
 - Ships with a standard-height bracket installed
 - Ships with SR optical transceivers installed
 - Minimum Order Quantity (MOQ): 20 units

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