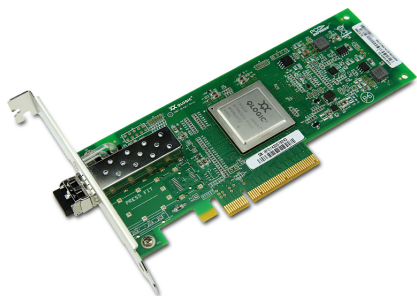


# Qlogic QLE2560 Datasheet



Genuine QLogic QLE2560-CK PCIe 2.0 x8 Single-port 8GFC SR-Optic Low Profile Fibre Channel Adapter

QLE2560

Marvell QLogic 2500 Series Adapters are designed to meet the business requirements of the enterprise data center through the very low power consumption while maintaining a high level of performance. These adapters interface to the host server with a PCI Express® (PCIe) 2.0 bus, ensuring no internal performance bottlenecks.

The 2500 Series 8GFC Adapters provide investment protection with existing SAN networks and a forward looking migration path with next generation SAN technologies. Choosing Marvell QLogic 8GFC adapters will not only meet today's demanding data center requirements by providing power and virtualization optimization, but investment protection is built in through backward compatibility with previous generations' (4GFC and 2GFC) technology. In addition, 2500 Series Adapters work in both PCIe Gen1 and Gen2 host bus interface platforms. Marvell's unique Dynamic Power Management technology enables the 2500 Series Adapters to provide the lowest possible power consumption. The 2500 Series Adapters are also backed by an industry-leading limited warranty.

## Virtualization Optimized

The 2500 Series Adapters deliver enhanced security and quality of service (QoS), and they enable dynamic provisioning. 2500 Series Adapters also allow multiple logical (virtual) connections to share the same physical port. Each logical connection has its own resources and the ability to be managed independently.

## Power Optimized

The 2500 Series Adapters take advantage of Marvell StarPower technology, ensuring power efficiency. Marvell StarPower technology offers dynamic and adaptive power management features such as power and bandwidth optimized intelligent PCIe link training, low-power switching power supplies, and a thermally efficient layout requiring lower airflows.

## Reliability, Availability, Serviceability (RAS) Optimized

The 2500 Series Adapters provide the highest data integrity by ensuring overlapping protection domains (OPDs) on both the control and data paths. In addition, 2500 Series Adapters use enhanced hardware assist firmware tracing (EHAFT), allowing more comprehensive debugging with standard drivers.

## Security Optimized

The 2500 Series Adapters support fabric-level isolation (NPIV) and end-to-end data integrity (T10).

## Management Optimized

A single common driver per OS for generations of Fibre Channel adapters simplifies deployment. Marvell's unified driver model (firmware embedded in the driver) eliminates potential interoperability issues between firmware and driver versions. The 2500 Series Adapters' API compatibility accelerates deployment while ensuring application compatibility.

## 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 2500 Series Adapters are also fully compatible with industry-standard APIs—including the SNIA HBA API and SMI-S—that allow administrators to manage Marvell adapters using third-party software applications.

## Comprehensive OS Support

Marvell offers the broadest range of support for all major OSs to ensure OS and hardware server compatibility. Drivers are fully tested and available for Windows®, Linux®, and VMware® ESX®. A single driver strategy per OS allows storage administrators to easily deploy and manage adapters in heterogeneous SAN configurations. Marvell's driver suite supports all major hardware server platforms.

## Leadership, Confidence, and Trust

Marvell is the undisputed leader in FC adapters, with over 20 years of experience, 20+ million ports shipped, and multiple generations of FC products that have been qualified by all major server OEMs. Marvell owns the most established, proven FC stack in the industry with more FC ports shipped than any other vendor

## Fibre Channel Specifications

- Negotiation
  - 8/4/2Gbps auto-negotiation
- IOPS
  - Up to 200,000 initiator and target IOPS per port
- Class of Service

- 2 and 3
- Topology
  - FC-AL, FC-AL2, point-to-point, and switched fabric
- Protocols
  - FCP-3-SCSI
  - FC-Tape (FCP-2)
- Cable Distances ( Multimode optic )
  - 2GFC: 150m @ OM1, 300m @ OM2, 500m @ OM3
  - 4GFC: 70m @ OM1, 150m @ OM2, 300m @ OM3
  - 8GFC: 21m @ OM1, 50m @ OM2, 150m @ OM3

## PCI Express Interface

- Compliance
  - PCI Express Base Specification, rev. 2.0
  - PCI Express Card Electromechanical Specification, rev. 2.0
  - PCI Bus Power Management Interface Specification, rev. 1.2
  - PCI Hot Plug Specification, rev. 1.0
- Physical and Electrical
  - PCIe x8 physical connector
  - StarPower link training:
    - Maximum x4 lanes for Gen 2.0 rate
    - Maximum x8 lanes for Gen1 rate

## Connectivity

- Ports
  - QLE2560: single 8Gbps Fibre Channel
  - QLE2562: dual 8Gbps Fibre Channel
  - QLE2564 and QLE2564L: quad 8Gbps Fibre Channel

## Host Bus Adapter Specifications

- Airflow
  - No airflow required
- Power Consumption
  - QLE2560: 5.5 watts (typical)
  - QLE2562: 6.2 watts (typical)
  - QLE2564 and QLE2564L: 13 watts (typical)
- Form Factor
  - QLE2560, QLE2562, and QLE2564L
    - Low-profile PCIe cards (6.6in. × 2.54in.)
  - QLE2564
    - Full-height PCIe card (6.6in. × 4.376in.)
- Temperature
  - Operating: 0°C to 55°C (32°F to 131°F)
  - Non-operating: -40°C to 70°C (-40°F to 158°F)
- Relative Humidity
  - Operating, non-condensing: 10% to 90%
  - Non-operating, non-condensing: 5% to 93%
- RoHS Compliance
  - RoHS 6

## Ordering Information

- QLE2560 (Single Port)
  - Ships in an individually packed box with a
  - standard-size bracket and a spare low profile bracket
  - Ships with SR optical transceiver installed
- QLE2562 (Dual Port)
  - Ships in an individually packed box with a
  - standard-size bracket and a spare low profile bracket
  - Ships with SR optical transceivers installed
- QLE2564 (Quad Port)

- Ships in an individually packed box with a
- standard-size bracket
- Ships with SR optical transceivers installed
- QLE2564L (Quad Port)
  - Ships in an individually packed box with a low profile bracket
  - Ships with SR optical transceivers installed

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