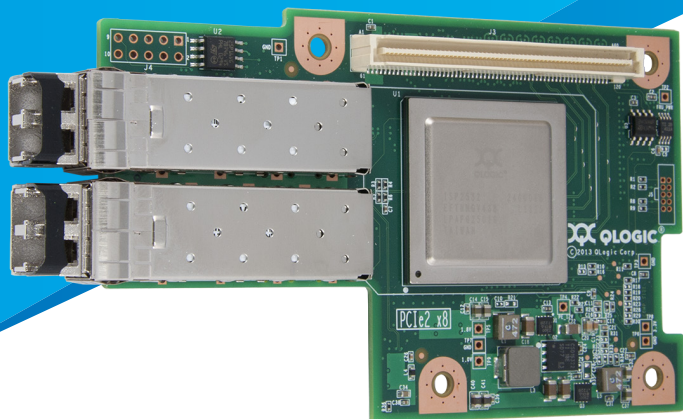


# QOE2562

## Open Compute Project (OCP) 8Gbps Dual-Port Fibre Channel-to-PCIe Adapter



- Dual-port, OCP mezzanine form factor
- Fibre Channel 8Gb-to-PCI Express x8
- 1600MBps (full-duplex) per port
- 200,000 initiator IOPS per port and full line rate throughput in initiator and target applications
- Virtualization optimized
- Dynamic Power Management technology provides lowest possible power consumption

### OVERVIEW

The QOE2562 is the first dual-port mezzanine Fibre Channel Adapter built for Open Compute Project (OCP) form factor server platforms. Designed to meet enterprise data center business requirements, including support for a large quantity of Fibre Channel ports with a limited availability of PCIe® slots. The QOE2562 adapter delivers best-in-industry performance and the highest level of data protection. The adapter interfaces to the host server with a PCIe Gen2 bus, ensuring no internal performance bottlenecks.

QLogic's 8Gb adapters meet the requirements of the data center by providing power and virtualization optimization, as well as backwards compatibility with previous 4Gb and 2Gb technology. In addition, the 2500 Series adapters work in both PCI Express® Gen1 and Gen2 host bus interface platforms.

#### OCP FORM-FACTOR OPTIMIZED

The QOE2562 provides two full-duplex ports of 8Gb Fibre Channel connectivity in an OCP mezzanine form factor. The industry's only two-port OCP mezzanine 8G Fibre Channel adapter, the QOE2562 allows for higher port density in PCIe-slot-challenged systems.

#### POWER

The QOE2562 adapter offers dynamic and adaptive power management features such as power- and bandwidth-optimized intelligent PCI Express link training, low-power switching power supplies, and a thermally efficient layout.

#### VIRTUALIZATION OPTIMIZED

The QOE2562 adapter delivers enhanced security and allows multiple logical (virtual) connections to share the same physical port. Each logical connection has its own resources and can be managed independently.

#### 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.

#### LEADERSHIP, CONFIDENCE, AND TRUST

With over 15 years of experience and seven generations of Fibre Channel products, QLogic is the undisputed leader in Fibre Channel Adapters.

## Fibre Channel Specifications

### Negotiation

- 8/4/2Gbps auto-negotiation

### IOPS

- 200,000 initiator and target IOPS per port

### Class of Service

- 2 and 3

### Topology

- FC-AL, FC-AL2, point-to-point, switched fabric

### Protocols

- FCP-3-SCSI
- FC-Tape (FCP-2)

### Cable Distances

Rate	Multimode Optic Cable Type and Distance (m)		
	OM1	OM2	OM3
2Gbps	150	300	500
4Gbps	70	150	380
8Gbps	21	50	150

## 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*

## Connectivity

### Ports

- Dual 8Gbps Fibre Channel

## Tools and Utilities

### Management Tools

- QConvergeConsole®—A unified management tool (GUI and CLI) for adapter configuration and management.

### Device Utilities

- Windows® SuperInstaller—Driver and management tool installer for Windows operating systems

- Linux® SuperInstaller—Driver and management tool installer for Linux operating systems

### Boot Support

- BIOS, FCode, EFI

### APIs

- SNIA HBA API V2, SMI-S, FDMI

## LED Scheme

Physical Port		Activity
LED 1	LED 2	
Off	Off	Power off
Green on	Yellow on	Power on (before firmware initialization)
Green on	Yellow on	Power on (after firmware initialization)
Green and yellow LEDs flashing alternately		Firmware error
Green, flashing on activity	Off	8Gb link and activity
Green, flashing on activity	Off	4Gb link and activity
Off	Yellow, flashing on activity	2Gb link and activity

## Host Bus Adapter Specifications

### Airflow

- Minimum airflow requirement 400 linear feet per minute (LFM)

### Power Consumption

- Maximum power dissipation 10W

### Form Factor

- OCP mezzanine

### Temperature

- 0°C to 55°C (operating)
- -40°C to 70°C (non-operating)

### Relative Humidity

- 10% to 90% (operating, noncondensing)
- 5% to 93% (non-operating, noncondensing)

### RoHS Compliance

- RoHS 6

## Platform and Operating System Support

### Hardware Platforms

- IA32 (x86), IA64, Intel® 64
- AMD® Opteron™ 64

### Operating Systems

- For the latest applicable operating system information, see <http://driverdownloads.qlogic.com>.

## Agency Approvals—EMI and EMC

### US and Canada

- FCC Rules, CFR Title 47, Part 15, Subpart B: 2014 Class A
- Industry Canada, ICES-003:2012 Class A

### Europe

- EN55022:2010/CISPR 22:209+A1:2010 Class A
- EN55024:2010
- EN6100-3-2:2006 A1+A2:2009
- EN6100-3-3:2008

### New Zealand and Australia

- AS/NZS; CISPR 22:2009+A1:2010 Class A

### Japan

- VCCI 2012-04 Class A

### Korea

- KC-NRRA KN22, KN24 (2013) Class A

## Agency Approvals—Safety

### US and Canada

- UL 60950-1 (2nd Edition) 2007
- CSA C22.2 No.60950-1-07 (2nd Edition) 2007
- Class 1 Laser Product per DHHS 21CFR J
- Use only with listed ITE or equivalent.

### Europe

- TUV EN60950-1:2006+A11+A1+A12 (2nd Edition)
- TUV IEC 60950-1:2005 2nd Edition AM 1:2009 CB

## Ordering Information

### QOE2562 (Dual Port)

- Ships with SR optical transceivers installed



Follow us: Share:

**Corporate Headquarters** QLogic Corporation 26650 Aliso Viejo Parkway Aliso Viejo, CA 92656 949-389-6000

**International Offices** UK | Ireland | Germany | France | India | Japan | China | Hong Kong | Singapore | Taiwan



© 2014 QLogic Corporation. Specifications are subject to change without notice. All rights reserved worldwide. QLogic, the QLogic logo, and QConvergeConsole are registered trademarks of QLogic Corporation. AMD and Opteron are trademarks or registered trademarks of Advanced Micro Devices, Inc. Intel is a registered trademark of Intel Corporation. Linux is a registered trademark of Linus Torvalds. PCIe and PCI Express are registered trademarks of PCI-SIG Corporation. Windows is registered trademark of Microsoft Corporation. All other brand and product names are trademarks or registered trademarks of their respective owners. Information supplied by QLogic Corporation is believed to be accurate and reliable. QLogic Corporation assumes no responsibility for any errors in this brochure. QLogic Corporation reserves the right, without notice, to make changes in product design or specifications.