



3200 Series

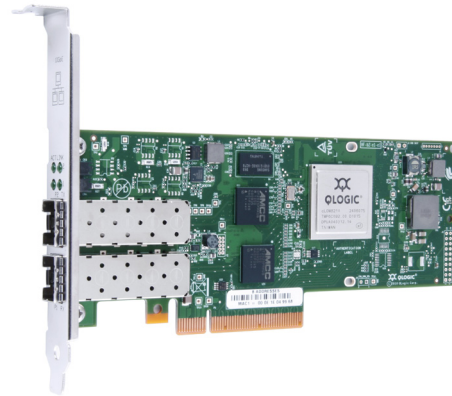
10Gbps Ethernet-to-PCIe Intelligent Ethernet Adapters

Benefits

- 10Gbps per-port maximum throughput for high bandwidth networking traffic
- SFP+ interface for cost effective connectivity to switches with direct attach copper and SR, LR optics
- Increased application throughput and reduced host CPU utilization with stateless offloads
- State-of-the-art virtualization features that provide security and quality of service (QoS) to virtual machines while maintaining superior performance
- Eliminates purchasing and installing multiple 1-gigabit Ethernet (GbE) NICs dedicated to specific server applications or tasks
- Compatible with common operating system (OS) network management tools, as well as QLogic's QConvergeConsole (QCC). QCC provides single pane-of-glass management for QLogic's broad product line of storage and networking adapters

Features

- Industry-leading networking performance
- Single root I/O virtualization (SR-IOV)
- Support for switch-dependent and switch-agnostic NIC Partitioning (NPAR) powered by QLogic VMflex technology



3200 Series. The 3200 Series of 10Gbps Intelligent Ethernet Adapters are designed for applications such as virtualization, network security appliances, cluster computing, IP content delivery systems, grid computing, database clustering, network attached storage (NAS), and storage and backup servers.

High Performance. The 3200 Series adapters boast industry-leading networking performance, with bidirectional dual-port throughput equalling approximately 40Gbps. This performance makes the adapter suitable for high-bandwidth applications, as well as applications that require network scaling.

VMflex. With QLogic's new VMflex technology, one Intelligent Ethernet Adapter is viewed by the server OS as multiple standalone NICs (up to four per physical Ethernet port), with the ability to allocate guaranteed bandwidth to each virtual adapter. NIC Partitioning eliminates purchasing and installing multiple, physical 1GbE NIC adapters that are dedicated to specific server applications or tasks (networking, backup, management, etc). These virtual adapters can also be assigned to individual virtual machines (VMs) to provide QoS, security, and higher system performance in virtualized servers. This unique feature can be switch dependent or switch agnostic—it is not necessary to pair a 3200 Series adapter with any specific 10GbE switch model to enable partitioning.

The 3200 Series adapters also feature industry-standard SR-IOV support, which provides broad interoperability, ease of device configuration/management, and improved system performance in a virtualized environment.

Unmatched Expertise. QLogic is the leading supplier of high performance network infrastructure solutions including Fibre Channel, Ethernet, iSCSI, InfiniBand, and Converged Network Adapters.

3200 Series 10Gbps Ethernet-to-PCIe Intelligent Ethernet Adapters

Host Bus Interface Specifications

Bus Interface

- PCI Express® Gen2 x8

Host Interrupts

- INTx, MSI, and MSI-X

I/O Virtualization

- SR-IOV
- QLogic VMflex technology

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*

Ethernet Specifications

Throughput

- 10Gbps full-duplex line rate per port

Ethernet Frame

- 1500 byte or 9600 byte (jumbo frame)

Stateless Offload

- IP, TCP, and UDP checksum offloads
- Large and giant send offload (LSO, GSO)
- Large receive offload (LRO)
- Receive side scaling (RSS)
- Interrupt coalescing
- VMware® NetQueue and Microsoft® VMQ

Compliance

- IEEE: 802.3ae (10Gb Ethernet), 802.1q (VLAN), 802.3ad (Link Aggregation), 802.1p (Priority Encoding), 802.3x (Flow Control), IPv4 (RFQ 791), IPv6 (RFC 2460)

Tools and Utilities

Management Tools and Device Utilities

- QConvergeConsole: a unified management tool (GUI and CLI) for Fibre Channel/FCoE, iSCSI, and networking
- Native OS management tools for networking

Boot Support

- PXE, BIOS, UEFI, iBFT

Operating systems

- Microsoft Windows Server®; Red Hat® Linux®; Novell® SLES; VMware ESX™/ESXi; Oracle® Solaris®, OpenSolaris™; Citrix® XenServer™

Physical Specifications

Ports

- QLE3240: single 10Gbps Ethernet
- QLE3242: dual 10Gbps Ethernet

Form Factor

- Low-profile PCIe® (6.6 in × 2.54 in)
- Custom form factors also available

Environment and Equipment Specifications

Temperature

- Operating: 0°C/32°F to 55°C/131°F
- Storage: -20°C/-4°F to 70°C/158°F

Humidity

- Relative (non-condensing): 10% to 90%
- Storage: 5% to 95%

Maximum Cable Distances (Optical)

- QLE324x-SR: 300m, OM3 multimode fibre
- QLE324x-LR: 10Km, single mode fibre

Agency Approvals

Safety

- US, Canada, Europe

EMI and EMC (Class A)

- US, Canada, Europe, Australia/New Zealand, Japan, Korea, Taiwan

Ordering Information

QLE3242-CU-CK (dual port)¹

- Ships without transceivers. Intended for use with copper cables (not included). A list of approved copper cables is posted at http://www.qlogic.com/Products/CU_Cables.aspx

QLE3240-SR-CK (single port)¹QLE3242-SR-CK (dual port)¹

- Ships with SR optical transceivers installed

QLE3240-LR-CK (single port)¹QLE3242-LR-CK (dual port)¹

- Ships with LR optical transceivers installed

¹ All "-CK" parts ship in an individually packed box with a standard-size bracket, a spare low-profile bracket, and a Quick Start Guide.



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