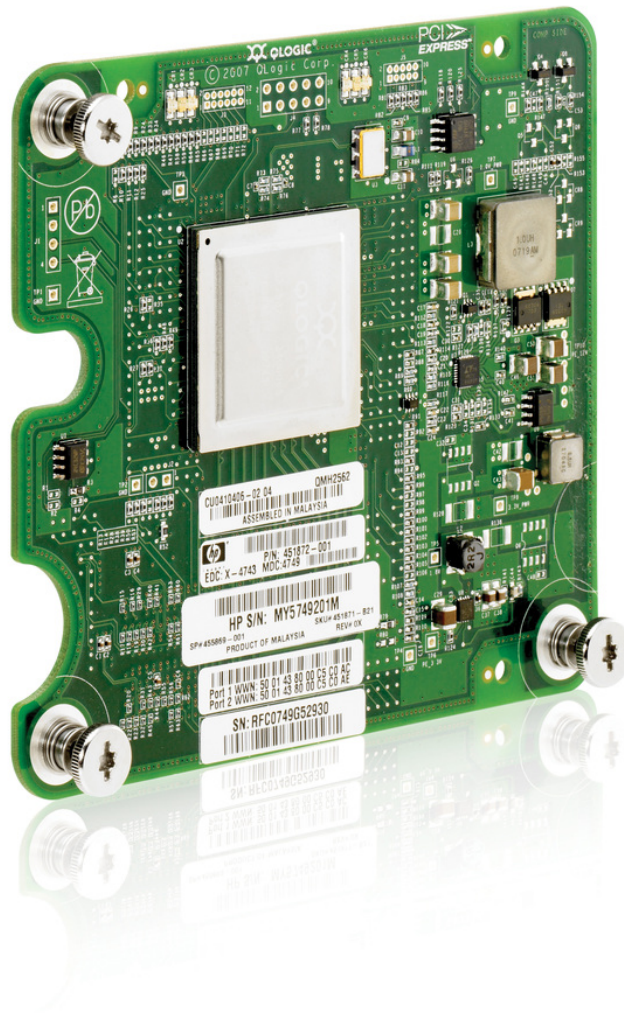## Overview

QLogic QMH2562 8Gb FC HBA for HPE c-Class BladeSystem

The QLogic QMH2562 8Gb FC HBA is a dual channel PCI Express Fibre Channel mezzanine card that provides reliable, high-performance connectivity at up to 8Gb/s. Operating systems supported include Windows and Linux. It is optimized for HPE and is also supported by third-party SAN vendors. For details on supported HPE Fibre Channel SAN Switches, please consult the SAN Design Reference Guide at the following WEB address: **https://www.hpe.com/us/en/networking/switches.html**.

QLogic QMH2562 8Gb FC HBA for HPE c-Class BladeSystem

Platform Information

Models

QLogic QMH2562 8Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem   451871-B21

Kit Contents	QLogic QMH2562 8Gb FC HBA for HPE c-Class BladeSystem
	QMH 2562 FC HBA
	Quick install card
	Product warranty statement
	Drivers, user guide, and utilities via: **http://www.hpe.com**

Compatibility - Supported Servers

8Gb c-Class HBA Mezzanine (Mezz) Card Applications

	Mezz Slot 1		Mezz Slot 2		Mezz Slot 3	
	Port 1	**Port 2**	**Port 1**	**Port 2**	**Port 1**	**Port 2**
Half Height Servers						
BL280c G6	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
BL460c G6	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
BL460c G7	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
BL465c G7	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
BL490c G6	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
BL490c G7	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	No Mezz Slot 3 on this model	
Full Height Servers						
BL620c G7	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb
BL685c G6	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb
BL685c G7	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb
BL860c*	Up to 4Gb	Up to 4Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb
BL86oc i2	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb
BL870c	Up to 4Gb	Up to 4Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb	Up to 8Gb

NOTE: The QLogic QMH2562 8Gb FC HBA for HPE c-Class BladeSystem must be deployed with the c-Class BladeSystem infrastructure and will only work with the BL c-Class Server Enclosures.

NOTE: HPE ProLiant Generation (G5) and earlier server blades do not support the QLogic QMH2562 8Gb FC HBA for HPE c-Class BladeSystem.

*The BL860c "A" versions (AD217A, AD323A) do not support the QLogic QMH2562 8Gb Fibre Channel mezzanine card. The BL860c "B" versions (AD217B, AD323B) are required when using the QMH2562. The BL860c "A" version can be upgraded to the "B" version with the AM333A system board upgrade kit.

Interoperability - HPE Storage and Third Party Switches	4Gb Switches and Directors
	2Gb Switches and Directors
	Compatible with Fibre Channel switches including Hewlett Packard Enterprise and third party vendors including Cisco, Brocade, and McDATA
	Compatible with 8Gb and 16Gb HPE BladeSystem c-Class Fibre Channel switches and Virtual Connect Modules

Standard Features

At a Glance Features

- Advanced embedded support for virtualized environments
  - Supports virtualized servers for overall effective server utilization
  - Allows multiple logical (virtual) connections to share the same physical ports
  - 256 queue pairs for intensive virtualization
  - Prioritization of queues prevents conflicts between multiple queues
- Fault tolerant 8Gb HBA Architecture
- Reduced power consumption
  - Latest generation technology saves power
  - Reduced number of components on each FC HBA reduces overall power consumption
  - Lower power consumption means HBA requires lower airflow
- PCI Express Bus: Gen I (x8), Gen II (x4)
- Two 8Gb/s Fibre Channel ports
- 8/4/2 automatic speed negotiation without throttling down to the lowest target speed on the network
- Multi-Path support for redundant HBAs and paths including Linux driver failover
- Superior performance capable of sustaining up to 200,000 I/Os per second per channel
- RoHS compliance
- QLogic SANsurfer Manager for centralized management and remote control of distributed HBAs
- Operating Systems and Virtualization Software Supported: Windows Server 2003, Windows Server 2008, VMware 3.5, VMware 4.0, VMware 4.1, RHEL 4, RHEL 5, SLES 10, SLES 11, Solaris 10 x86
- Performance Optimized
  - Reduces response time of mission critical Datacenter applications and backup windows
  - 2X throughput of 4Gb
- Virtualization Optimized
  - Delivers enhanced security, Quality-of-Service and Dynamic Provisioning during live migration
- Power Optimized
  - Adaptive power management techniques to ensure lowest power & cooling enabled by QLogic StarPower™ Technology
- RAS Optimized
  - Highest Data Integrity; Overlapping Protection Domains (OPD) extended for control and data paths
- Security Optimized
  - SAN-level authentication (FC-SP), fabric-level isolation (NPIV and end-to-end data integrity (T10)
- Management Optimized
  - Unified driver model eliminates potential interop issues between firmware and driver versions and cuts upgrade time in half
  - Common drivers for 8Gb, 4Gb and 2Gb

Warranty

Maximum: The remaining warranty of the HPE product in which it is installed (to a maximum three-year, limited warranty).
Minimum: One year limited warranty.

Standard Features

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: **http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/index.aspx#.V4e3tPkrJhE**

Service and Support

Service and Support	**NOTE: This adapter is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services# need to be purchased.** Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.
Warranty and Support Services	Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over. Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply.
Protect your business beyond warranty with HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support you need for your IT and business. Protect your product, beyond warranty.
Parts and Materials	Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services. The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.
For more information	Visit the Hewlett Packard Enterprise Service and Support **website**.

Technical Specifications

System Unit	Dimensions (L x W)	4.460 in x 3.970 in

Power and Environmental Specifications		
	Media	N/A (Backplane connection to Virtual Connect, Switch or Pass-Thru Module)
	Ports	Two
	Temperature - Operating	10° to 70°C (55° to 158°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).
	Temperature - Non-Operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
	Humidity - Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
	Humidity - Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
	Altitude - Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Altitude - Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

Environment-friendly Products and Approach - End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner. The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
25-Aug-2017	From Version 8 to 9	Changed	Service and Support section was updated
		Removed	Related Options section was removed.
14-Oct-2016	From Version 7 to 8	Changed	Re-branding edition
13-Feb-2015	From Version 6 to 7	Changes	Overview and Compatibility sections were updated
14-Dec-2012	From Version 5 to 6	Changes	The information in the first 3 sections of the document (Overview, Compatibility and Standard Features) was completely rearranged
20-Jun-2011	From Version 4 to 5	Changes	System Inlet Operating Temperature was revised and mentions of StorageWorks were removed
18-Feb-2011	From Version 3 to 4	Changes	BladeSystem Compatibility chart was completely revised and Operating Systems and Virtualization Software Supported: Windows Server 2003, Windows Server 2008, VMware 3.5, VMware 4.0, VMware 4.1, RHEL 4, RHEL5, SLES 10, SLES 11, Solaris 10 x86 was added to Key Features
02-Jul-2010	From Version 2 to 3	Changes	Changes made to the BladeSystem Compatibility chart in the Product Highlights section and in the Technical Specifications section
05-Jun-2009	From Version 1 to 2	Added	Up to 8Gb, 4Gb and NOTEs throughout the BladeSystem Compatibility chart in the Product Highlights section

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