

Marvell QLogic Adapters for Dell Servers

FUTURE-READY I/O

Marvell technology enables superior performance, greater virtualization density, and improved storage area networking on Dell EMC PowerEdge Servers and Storage arrays. A leading provider of QLogic® Fibre Channel host bus adapters to Dell Technologies, Marvell offers Dell Technologies and its customers a broad portfolio of storage and networking solutions.

Dell OEM S	SKUs							
Speed/	QLogic Model	Factory Install	Customer Kit/APOS	Ports*	Form Factor	Notes		
Protocol								
32Gb Fibre Channel	QLE2772 V2 (FH)	540-BDHC	540-BDHO	2	PCle 4.0	14G: R640, R740, R740XD, R840, R940(FH), R940XA, T640(FH),		
						FC640(LP)		
	QLE2772L V2 (LP)	540-BDGU	540-BDHM	2	PCIe 4.0	— 15G : R650, R650XS(LP), R750, R750XS(LP), R750XA, R6515(LP), R7515, R6525, R7525		
	, ,					16G: R660, R660XS(LP), R760, R760XD2, R760XA(FH), R860, R950,		
						R6615, R6625, R7615, R7625, C6620(LP), HS5610(LP), HS5620(LP)		
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	QLE2772 (FH)	406-BBPZ	406-BBQE	2	PCIe 4.0	14G: R640, R740, R740XD, R840, R940(FH), R940XA, T640(FH),		
						FC640(LP)		
	QLE2772L (LP)	406-BBPX	406-BBQG	2	PCIe 4.0			
	QME2742	544-BBCP	540-BCJG	2	Blade Server	14G: MX740C, MX840C		
					Mezzanine Card	15G : MX750C		
						16G: MX760C		
16Gb Fibre	QLE2692 V2 (FH)	540-BDHU	540-BDHW	2	PCIe 3.0	14G: R540, R640, R740, R740XD, R740XD2, R840, R940(FH), R940XA,		
Channel	QLE2692 V2 (LP)	540-BDIB	540-BDHB	2	PCIe 3.0	R6415(LP), R7415, R7425, T640(FH),		
						M640 VRTX(1P), FC640(LP)		
						15G : R650, R650XS(LP), R750, R750XS(LP), R750XA, R6515 (LP),		
						R7515, R6525, R7525, T550 (2P, FH)		
	QLE2692 (FH)	403-BBMQ	403-BBMU	2	PCIe 3.0			
	QLE2692 (LP)	403-BBMS	403-BBMT	2	PCIe 3.0			
	QLE2690 (FH)	403-BBMP	403-BBMV	1	PCIe 3.0	7		
	QLE2690 (LP)	403-BBMW	403-BBMH	1	PCIe 3.0			
	QL41262	543-BBDI	540-BCJF	2	Blade Server	14G: MX740C, MX840C		
CNA					Mezzanine Card	15G : MX750C		
						16G : MX760C		

^{*} Port count is the same for both FH and LP models

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Fibre Channel Facts

- Fibre Channel is a well adopted lossless protocol that is the gold-standard storage connectivity option for customers needing reliable performance, low latency, and scalability.
- Marvell QLogic FC HBAs has dedicated processor, memory, and firmware for each port to help increase reliability and deliver predictable performance.
- Many mission critical applications in banking and finance, healthcare, and government almost entirely depend on FC storage; it's not going away!
- Marvell Qlogic is a market leader paving the way for NVMe over Fibre Channel (FC-NVMe) because of its low latency, scalable, secure, and proven technology.
- Future-proof: 32Gb backwards compatible with 16Gb and 8Gb
- Only QLogic FC HBAs utilize a single driver for both FC and FC-NVMe connectivity
- UNIVERSAL Congestion Mitigation technology at NO additional cost; works with Brocade and Cisco switches.
- PowerMax and PowerStore supports FC-NVMe to provide end-to-end NVMe with QLogic from servers to storage.
- Tape backup uses fibre channel because it is lossless for a seamless offsite backup strategy!
- Fibre Channel technology drives more external storage ports than any other I/O interconnect.

	Technology	What is it?	Customer benefit?		
			Ensures predictable per-port performance and increases overall SAN reliability		
	Secure Firmware Update/Silicon Root of Trust (RoT)	Encrypted signature match between firmware and HBA ASIC	Improves security by eliminating possibility of rogue F/W to be introduced into the adapter.		
	` ,	Enhanced error correction encoding now part of 32GFC Standard	Improves transmission reliability and reduces potential data errors in FC SAN		
		Ability to process NVMe storage commands to Storage Arrays that support native NVMe connect	Improved performance due to efficiency of NVMe protocol compared to SCSI protocol		
	o o	Support for Fabric Performance Impact Notification (FPIN) messages and responses	Minimize SAN congestion in both B-Series and C-series SAN Fabrics for customers		
t o	,		Improve VM workload visibility, diagnostics and improves ability to meet SLAs		
F	0,	Provides the ability to virtualize each HBA port into 3 traffic classes - slow, normal and fast	Optimize workload performance, provide port-level quality of service to improve ability to meet SLAs		
s i	,	Fibre Channel features to pre-configure adapter configuration setting in the fabric	Reduces SAN deployment time by as much as 30%		
n	•	Enhanced diagnostic and parameter information that can be transmitted in a 16GFC or 32GFC SAN	Reduces troubleshooting effort by as much as 50%		

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