

Dell-branded Emulex® Fibre Channel (FC) Adapters by Broadcom

I/O Matrix

Accelerate Workload Performance for All-flash & NVMe Data Centers

- Up to 10M IOPS via Emulex Dynamic Multi-core Architecture¹
- 1/3 the latency — fast path hardware-based IO acceleration design delivers significantly better latency than software-based solutions²
- Accelerates database workloads — realize substantial performance improvements by deploying new servers with faster HBAs, even without investing in a new storage array
- Maximizes VM density with more standard on-chip resources and improves VDI bootstorm performance with low latency HBAs

Easily Deploy, Manage, and Upgrade SANs

- Save time with no server reboots for firmware updates, queue depth changes, and optics replacements¹
- Exclusive Emulex Trunking¹ feature, also known as port aggregation, dynamically binds ports into a single, high bandwidth port ideal for high-bandwidth applications such as VM migration and data warehousing as well as providing higher bandwidth needed to resolve congestion issues³
- Supports Brocade® ClearLink® (D-Port) diagnostics, Link Cable Beaconing, Read Diagnostic Parameters, and Host Name Registration and more (on select Gen 7/Gen 6/Gen 5 HBAs)

Fully Protect Data

- **NEW!** Dell Secure Component Validation (SCV)-enabled. SCV ensures that only an authentic HBA can communicate on the PCIe bus, a central element of Zero Trust Security on 16G servers.
- Silicon root of trust¹— a hardware-based firmware verification feature checks for authentic firmware every time the system is booted and before installing any new firmware
- Co-inventor of T10-PI advanced data integrity — available on 16GFC, 32GFC and 64GFC HBAs
- Simply the best reliability — 10 million hours field mean time between failure (MTBF), the highest in the industry to ensure SLAs are met

	LPe36002	LPe35000	LPe35002	LPm32002
	Stand-up card	Stand-up card	Stand-up card	Mezzanine card
Description	Gen 7 (64GFC dual-port ²)	Gen 7 (32GFC single-port)	Gen 7 (32GFC dual-port)	Gen 6 (32GFC dual-port)
Factory install part numbers				
full-height bracket	540-BDRQ	406-BBTD	406-BBTL	544-BBCN (no bracket)
low-profile bracket	540-BDRS	406-BBTJ	406-BBTM	
Customer kit part numbers				
full-height bracket	540-BDRR	406-BBTH	406-BBTG	544-BBCU
low-profile bracket	540-BDRP	406-BBTK	406-BBTF	
Bus Interface	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 3.0
Transceivers included	Yes	Yes	Yes	N/A
Auto-Negotiation	64, 32 or 16GFC	32, 16 or 8GFC	32, 16 or 8GFC	32 or 16GFC

16G PowerEdge Options

	LPe36002	LPe35000	LPe35002	LPm32002	LPe31000	LPe31002
	Stand-up card	Stand-up card	Stand-up card	Mezzanine card	Stand-up card	Stand-up card
Description	Gen 7 (64GFC dual-port)	Gen 7 (32GFC single-port)	Gen 7 (32GFC dual-port)	Gen 6 (32GFC dual-port)	Gen 6 (16GFC single-port, V2)	Gen 6 (16GFC dual-port, V2)
Factory install part numbers						
full-height bracket	540-BDNN ⁴	540-BDQB	540-BDQL	544-BBCN (no bracket)	540-BDHG	540-BDHP
low-profile bracket	540-BDNU ⁴	540-BDQG	540-BDQR		540-BDHS	540-BDGY
Customer kit part numbers						
full-height bracket	540-BDNO ⁴	540-BDPX	540-BDQC	544-BBCU	540-BDHN	540-BDHR
low-profile bracket	540-BDNS ⁴	540-BDQN	540-BDPW		540-BDHI	540-BDHH
Bus Interface	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 3.0	PCIe 3.0	PCIe 3.0
Transceivers included	Yes	Yes	Yes	N/A	Yes	Yes
Auto-Negotiation	64, 32 or 16GFC	32, 16 or 8GFC	32, 16 or 8GFC	32 or 16GFC	16, 8 or 4GFC	16, 8 or 4GFC
15G/14G PowerEdge Options						

1 - Available on Gen 7 (LPe35000/36000 series) HBAs. 2 - Emulex Gen 7 HBAs compared to Gen 6 (LPe31000/32000-series) HBAs. 3 - Requires Brocade Gen 6 FC switches. 4 - 64G available on 15G PowerEdge only.

For detailed product information about the models listed in this document, please visit our website at: broadcom.com/company/oem-partners/dell

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