

# Reference Guide



## Dell and Mellanox Joint Solutions

Dell PowerEdge servers and Dell EMC storage systems address a host of next generation business challenges, offering enterprises an optimal approach to meet the technology needs of companies that operate massive data centers with tens of thousands of servers to simple small and medium business environments. Teaming with Mellanox to offer a wide range of Ethernet and InfiniBand solutions enables extreme computing, real-time response, I/O consolidation and power savings for next generation Artificial Intelligence, Cloud Computing, Data Analytics and High Performance application environments.

Product	Description	Mellanox PN	Dell PN	Compatibility
<b>EDR InfiniBand HCAs</b>  	Connect X-4 VPI EDR adapter card, dual-port QSFP (LP)	MCX456A-ECAT	540-BBOB	R630, R730, R930, R440, R540, R640, R740, R740XD, R840, C4140, C6420
	Connect X-4 VPI adapter card, EDR IB (100Gb/s) and 100GbE, dual-port QSFP28, PCIe3.0 x16, ROHS R6, (FH)	MCX456A-ECAT	540-BBQG	R630, R730, R930, R440, R540, R640, R740, R740XD, R840, R940, R940XA, T640
	Connect X-5 VPI adapter card, EDR IB (100Gb/s) and 100GbE, single-port QSFP28, PCIe3.0 x16, tall bracket, ROHS R6	MCX555A-ECAT	540-BCDJ	R630, R730, R930, R440, R640, R740, R740XD, R840, R940, R940XA, R6415, R7425
	Connect X-5 VPI adapter card, EDR IB (100Gb/s) and 100GbE, single-port QSFP28, PCIe3.0 x16, short bracket, ROHS R6	MCX555A-ECAT	540-BBOG	R630, R730, R930, R440, R640, R740, R740XD, R840, R940, C4140, C6420, R6415, R7415
<b>FDR InfiniBand HCAs</b> 	Connect X-3 VPI FDR (LP) Adapter, Single Port, 56GB/s IB or 10/40/56bE	MCX353A-FCBS	540-BBKI	C4130, R430, R630, R730, 730XD, C6420, R740, R740XD, R640, R440, R540, FC640, R840, R940XA, C6420, C4140
	Connect X-3 VPI FDR (LP) Adapter, Dual Port, 56GB/s IB or 10/40/56bE	MCX354A-FCBS	540-BBKH	
	Connect X-3 VPI FDR, Dual Port Daughter Card, 56GB/s IB or 10/40GbE	Custom	406-BBHO	
	Connect X-3 VPI FDR, Single Port Daughter Card, 56GB/s IB or 10/40GbE	Custom	406-BBHP	FC430 (Supported in Chassis PCIe slot)
<b>Ethernet Adapters</b> 	Connect X-3 Pro Dual Port 10 GbE SFP+ PCIe Adapter (LP)	MCX312B-XCCT	540-BBPC	R440, R540, R640, R740, R740XD, R840, R940XA, R6415, R7415
	Connect X-3 Pro Dual Port 40 GbE QSFP+ PCIe Adapter (FH)	MCX314A-BCCT	540-BBOZ	R440, R540, R640, R740, R740XD, R840, R940, R940XA, T640, R7425, C4140, C6420, FC640
	Connect X-3 Pro Dual Port 40 GbE QSFP+ PCIe Adapter (LP)	MCX314A-BCCT	540-BBPN	R440, R540, R640, R740, R740XD, R840, R940XA, C4140, C6420, FC640
	Connect X-4 Lx Dual Port 10/25GbE DA/SFP Network Adapter (LP)	MCX4121A-ACAT	406-BBLC	R440, R540, R640, R740, R740XD, R840, R940XA, R6415, R7415, R7425, C4140, C6420, FC640
	Connect X-4 Lx Dual Port 10/25GbE DA/SFP Network Adapter (FH)	MCX4121A-ACAT	406-BBLF	R440, R540, R640, R740, R740XD, R840, R940, R940XA, R7415, R7425, T640
	Connect X-4 Lx Dual Port 10/25GbE DA/SFP rNDC	MCX4121A-ACAT	406-BBLH	R640, R740, R740XD, R840, R940, R940XA, R7425
	Connect X-4 Dual Port 100 GbE QSFP Network Adapter, Low Profile	MCX416A-CCAT	540-BBVR	R440, R540, R640, R740, R740XD, R840, R940XA, R6415, R7415, R7425, C4140, C6420
	Connect X-4 Dual Port 100 GbE QSFP Network Adapter, Full Height	MCX416A-CCAT	540-BBUU	R440, R540, R640, R740, R740XD, R840, R940, R940XA, T640
	Connect X-5 EX Dual Port 100GbE QSFP28 PCIe Adapter, Full Height	MCX516A-CDAT	540-BCIV	R440, R540, R640, R740, R740XD, R840, R940, R940XA, R7415, R7425 T640
	Connect X-5 EX Dual Port 100GbE QSFP28 PCIe Adapter, Low Profile	MCX516A-CDAT	540-BCIW	R440, R540, R640, R740, R740XD, R840, R940, R940XA, R6415, R7415, R7425, R6415
<b>Transceivers</b> 	LinkX <sup>®</sup> transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI	MMA1B00-C100D	A8927369	
	LinkX <sup>®</sup> SFP+ optical module for 10GBASE-SR	MFM1T02A-SR	407-BBOJ	NA
	LinkX <sup>®</sup> optical module, 40Gb/s, QSFP, MPO, 850nm, up to 100m	MC2210411-SR4	407-BBOI	
	LinkX <sup>®</sup> transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 100m	MMA2P00-AS-SP	AA176372	
<b>EDR and FDR Switches</b>  	SwitchX-2™ SX6025F, FDR InfiniBand, 1U, 36 QSFP+ ports, 1x AC PSU, Unmanaged, PSU to Ports airflow	MSX6025F-1SFS	210-AEMK	
	SwitchX-2™ SX6036F, FDR InfiniBand, 1U, 36 QSFP+ ports, 1x AC PSU, PPC460, Short Depth, PSU to Ports air	MSX6036F-1SFS	210-AEMI	
	SwitchX-2™ SX6012F, FDR InfiniBand, 1U, 12 QSFP+ ports, 2x AC PSU, PPC460, PSU to Ports airflow	MSX6012F-2BFS	210-AEMN	NA
	Switch-IB™-2 based EDR InfiniBand 1U Switch, 36 QSFP28 ports, 2 Power Supplies (AC), x86 dual core, standard depth, P2C airflow	MSB7800-ES2F	210-AJJU	
	Switch-IB™-2 based EDR InfiniBand 1U Switch, 36 QSFP28 ports, 2 Power Supplies (AC), unmanaged, standard depth, P2C airflow	MSB7890-ES2F	210-AJJV	
<b>Blade Solutions</b> 	ConnectX-4 Lx Dual Port 25GbE KR Mezzanine Card, Customer Install	Custom	540-BCHJ	MX740C, MX840C
	ConnectX-4 Lx Dual Port 25GbE KR Mezzanine Card	Custom	543-BBDK	MX740C, MX840C

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Product	Description	Mellanox PN	Dell OEM SKU, 3rd PARTY SKU
LinkX FDR Cables	FDR InfiniBand QSFP passive copper cable, 0.5m	MC2207130-00A	470-ABIT
	FDR InfiniBand QSFP passive copper cable, 1m	MC2207130-001	470-ABIU
	FDR InfiniBand QSFP passive copper cable, 2m	MC2207130-002	470-ABIV
	FDR InfiniBand QSFP passive copper cable, 3m	MC2207128-003	470-ABIW
	FDR InfiniBand QSFP assembled optical cable, 5m	MC220731V-005	470-ABIX
	FDR InfiniBand QSFP assembled optical cable, 10m	MC220731V-010	470-ABIY
LinkX EDR Cables	Passive Copper cable, VPI, up to 100Gb/s, QSFP, LSZH, 0.5m	MCP1600-E00A	470-ACBX
	Passive Copper cable, VPI, up to 100Gb/s, QSFP, LSZH, 1m	MCP1600-E001	470-ACBY
	Passive Copper cable, VPI, up to 100Gb/s, QSFP, LSZH, 2m	MCP1600-E002	470-ACBR
	Passive Copper cable, VPI, up to 100Gb/s, QSFP, LSZH, 3m	MCP1600-E003	470-ACBS
	Active fiber cable, VPI, up to 100Gb/s, QSFP, LSZH, 5m	MFA1A00-E005	470-ACBW
	Active fiber cable, VPI, up to 100Gb/s, QSFP, LSZH, 10m	MFA1A00-E010	470-ACBT
LinkX 10/25GbE	Passive Copper cable, ETH up to 25Gb/s, SFP28, 0.5m, 30AWG	MCP2M00-A00AE30N	AA343207
	Passive Copper cable, ETH up to 25Gb/s, SFP28, 1m, 30AWG CA-N	MCP2M00-A001E30N	AA325830
	Passive Copper cable, ETH up to 25Gb/s, SFP28, 1.5m, 30AWG CA-N	MCP2M00-A01AE30N	AA343244
	Passive Copper cable, ETH up to 25Gb/s, SFP28, 2m, 30AWG	MCP2M00-A002E30N	AA328537
	Passive Copper cable, ETH up to 25Gb/s, SFP28, 2.5m, 30AWG CA-L	MCP2M00-A02AE30L	AA343249
	Passive Copper cable, ETH up to 25Gb/s, SFP28, 3m, 30AWG	MCP2M00-A003E30L	AA349338
	Active optical cable 25GbE, SFP28, 3m	MFA2P10-A003	A9590937
	Active optical cable 25GbE, SFP28, 5m	MFA2P10-A005	A9590938
	Active optical cable 25GbE, SFP28, 7m	MFA2P10-A007	AA080998
Active optical cable 25GbE, SFP28, 10m	MFA2P10-A010	AA080999	
LinkX 40GbE	Passive Copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m	MC2210130-001	A5512016
	Passive Copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m	MC2210130-002	A5512035
	Passive Copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m	MC2210128-003	A5512036
	Passive Copper cable, ETH 40GbE, 40Gb/s, QSFP, 4m	MC2210126-004	A7125223
	Passive Copper cable, ETH 40GbE, 40Gb/s, QSFP, 5m	MC2210126-005	A5512038
LinkX 100GbE to 4x 25GbE	PC hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1m, 30AWG	MCP7F00-A001	A8793394
	PC hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2m, 30AWG	MCP7F00-A002	A8793396
	PC hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, 30AWG	MCP7F00-A02A	A8793397
	PC hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, 28AWG	MCP7F00-A003	A8793398
	Active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m	MFA7A50-C003	A9590974
	Active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m	MFA7A50-C005	A9591497
	Active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 10m	MFA7A50-C010	A9591494
LinkX 100GbE	Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, PVC, 1m 30AWG CA-L	MCP1600-C001E30N	AA319962
	Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, PVC, 2m 30AWG CA-L	MCP1600-C002E3N	AA319963
	Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, PVC, 3m 30AWG CA-L	MCP1600-C003E30L	AA324073
	Active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 5m	MFA1A00-C005	A8175857
	Active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 10m	MFA1A00-C010	A8175858

## Mellanox Dell Contacts:

Denise Cowart  
Sr. Sales Manager  
Tel: +1 (512) 853-0937  
[denisec@mellanox.com](mailto:denisec@mellanox.com)

Chris Ruffing  
Sr. Sales Manager  
Tel: (512) 649-6797  
[chrshr@mellanox.com](mailto:chrshr@mellanox.com)

Will Stepanov  
Sr. Sales Manager  
Tel: (512) 966-4993  
[will@mellanox.com](mailto:will@mellanox.com)

Jeremy Willett  
Dell Mellanox Consultant  
Tel: (512) 723-5294  
[Jeremy.Willett@Dell.com](mailto:Jeremy.Willett@Dell.com)

**General Inquiry:**  
[dellsales@mellanox.com](mailto:dellsales@mellanox.com)

350 Oakmead Parkway, Suite 100  
Sunnyvale, CA 94085  
Tel: 408-970-3400 • Fax: 408-970-3403  
[www.mellanox.com](http://www.mellanox.com)

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