

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	Tied SKU		Customer Kit SKU		Dell Server Support
	Connect-X Series	FH or N/A	LP	FH or N/A	LP	Compatibility
	ConnectX-6 1xHDR100 PCIe	540-BCMV	540-BCMW	540-BCMU	540-BCMX	R440, R640, R740, R740XD, R840, R940(FH), R940XA, R6515(LP), R7515, R6525, C4140(LP), C6420(LP), R6525(LP)
	ConnectX-6 1xHDR PCIe w/ C6420 M.2 aux card		540-BCQW		540-BCQY	R6420(LP)
	ConnectX-6 1xHDR PCIe w/ PCIe aux card	540-BCQU	540-BCQV	540-BCQZ	540-BCQX	R740(FH), R740XD2(FH)
	ConnectX-5 EX 2 x 100GbE QSFP28 PCIe	540-BCIU	540-BCIX	540-BCIV	540-BCIW	R440(LP), R540, R640, R740, R740XD, R740XD2, R840, R940(FH), R940XA, R6415(LP), R7415, R7425, R6515(LP), R7515, T640 (FH), C4140(LP), C6420(LP)
	ConnectX-5 2 x 10/25GbE OCP NIC 3.0	540-BCNM		540-BCNI		R6525, C6525
	ConnectX-5 2 x 10/25GbE PCIe	540-BCNM	540-BCMQ	540-BCNI	540-BCNJ	R440, R540, R640, R6515(LP), R6525, R740, R740XD, R740XD2, R7515, R840, R940(FH), R940xa, T640(FH), C4140(LP), FC640(LP) C6420(LP)
	ConnectX-5 1 x EDR PCIe	540-BCDK	540-BCDL	540-BCDJ	540-BCDI	R440, R640, R740, R740XD, R840, R940(FH), R940XA, R6415(LP), R7415, R7425(FH), C4140(LP), C6420(LP)
	ConnectX-4 LX 2 x 10/25GbE SFP28 rNDC	406-BBLG		406-BBLH		R640, R740, R740XD, R840, R940, R940XA, R7425
	ConnectX-4 LX 2 x 10/25GbE SFP28 PCIe	406-BBLE	406-BBLD	406-BBLF	406-BBLC	R440, R540, R640, R740, R740XD, R740XD2, R840, R940(FH), R940XA, R6415(LP), R7415, R7425, T640, C4140(LP), C6420(LP), FC640
	ConnectX-4 LX 2 x 10/25GbE MX Mezz	543-BBDK		540-BCHJ		MX740C, MX840C
	ConnectX-4 2 x 100GbE QSFP28 PCIe	540-BBUT	540-BBVQ	540-BBUU	540-BBVR	R440, R540, R640, R740, R740XD, R840, R940(FH), R94XA, R6415(LP), R7415, R7425, T640(FH), C4140(LP), C6420(LP)
	ConnectX-3 1 x FDR PCIe		555-BCKU		540-BBKI	R440, R540, R640, R740, R740XD, R840, R940XA, C4140 (LP), C6420, FC640(CH)
	ConnectX-3 2 x FDR bMezz	543-BBCG		543-BBCV		M640

Reference Guide



Product	Description	Mellanox PN	Dell PN	Compatibility
EDR Switches 	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	NA
	Switch-IB™-2 based EDR InfiniBand 1U Switch, 36 QSFP28 ports, 2 Power Supplies (AC), unmanaged, standard depth, P2C airflow	MSB7890-ES2F	210-AJJV	
Blade Solutions 	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
Product	Description	Mellanox PN	Dell PN	
Transceivers 	LinkX® transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 100m		MMA2P00-AS-SP	AA176372
	LinkX® transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI		MMA1B00-C100D	A8927369
	LinkX® optical module, 40Gb/s, QSFP, MPO, 850nm, up to 100m		MC2210411-SR4	407-BBOI
HDR Split InfiniBand Passive Copper 	LinkX® passive copper hybrid cable, IB HDR 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, colored pulltabs, 1.5m, 30AWG		MCP7H50-H01AR30	A9923490
	LinkX® passive copper hybrid cable, IB HDR 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, colored pulltabs, 1m, 30AWG		MCP7H50-H001R30	A9923487
	LinkX® passive copper hybrid cable, IB HDR 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, colored pulltabs, 2m, 26AWG		MCP7H50-H002R26	A9923488
	LinkX® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, 5m		MFS1S50-H005E	A9927260
HDR Split InfiniBand Active Fiber 	LinkX® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, 10m		MFS1S50-H010E	A9929241
	LinkX® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, 15m		MFS1S50-H015E	A9929242
	LinkX® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, 20m		MFS1S50-H020E	A9929243
	LinkX® active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, 30m		MFS1S50-H030E	A9929244
HDR InfiniBand Passive Copper 	LinkX® Passive Copper cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, 0.5m, black pulltab, 30AWG		MCP1650-H00AE30	A9929235
	LinkX® Passive Copper cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, 1m, black pulltab, 30AWG		MCP1650-H001E30	A9929233
	LinkX® Passive Copper cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, 1.5m, black pulltab, 30AWG		MCP1650-H01AE30	A9929236
	LinkX® Passive Copper cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, 2m, black pulltab, 26AWG		MCP1650-H002E26	A9929234
HDR InfiniBand Active Fiber 	LinkX® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 5m		MFS1S00-H005E	A9927259
	LinkX® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 10m		MFS1S00-H010E	A9923492
	LinkX® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 15m		MFS1S00-H015E	A9923493
	LinkX® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 20m		MFS1S00-H020E	A9923494
	LinkX® active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 30m		MFS1S00-H030E	A9923495

Reference Guide



Product	Description	Mellanox PN	Dell OEM SKU, 3rd PARTY SKU
EDR Cables LinkX	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
10/25GbE LinkX	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, 7	MFA2P10-A007	AA080998
	Active optical cable 25GbE, SFP28, 10m	MFA2P10-A010	AA080999
40GbE LinkX	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
100GbE to 4x 25GbE LinkX	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	
100GbE LinkX	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

Chris Ruffing
Sr. Sales Manager
Tel: (512) 649-6797
chriscr@mellanox.com

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

Jasmine Lee
Mellanox Sales Specialist
Tel: (512) 723-1929
jasmine.lee1@dell.com

General Inquiry:
dellsales@mellanox.com



350 Oakmead Parkway, Suite 100
Sunnyvale, CA 94085
Tel: 408-970-3400 • Fax: 408-970-3403
www.mellanox.com



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