

# Ethernet Switches Linecard



Part Number	Description	Technology	Operating System	Max Speed	Connector Type	Ports	Support Required	ECCN
<b>Ethernet SN4000 Series Switches - Ideal Data Center Switches for Cloud, Ethernet Storage Fabrics, and Machine Learning Solutions</b>								
MSN4600-CS2F	NVIDIA MSN4600-CS2F Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28	64x 100GbE	Recommended	5A991
MSN4600-CS2R	NVIDIA MSN4600-CS2R Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28	64x 100GbE	Recommended	5A991
MSN4600-CS2FC	NVIDIA MSN4600-CS2FC Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28	64x 100GbE	Required	5A991
MSN4600-CS2RC	NVIDIA MSN4600-CS2RC Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28	64x 100GbE	Required	5A991
MSN4600-CS2FO	NVIDIA MSN4600-CS2FO Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	64x 100GbE	Recommended	5A991
MSN4600-CS2RO	NVIDIA MSN4600-CS2RO Spectrum-3 100GbE 2U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	64x 100GbE	Recommended	5A991
MSN4700-WS2F	NVIDIA MSN4700-WS2F Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	Onyx	400GbE	QSFPDD	32x 400GbE	Recommended	5A991
MSN4700-WS2FC	NVIDIA MSN4700-WS2FC Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	400GbE	QSFPDD	32x 400GbE	Required	5A991
MSN4700-WS2FO	NVIDIA MSN4700-WS2FO Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	400GbE	QSFPDD	32x 400GbE	Recommended	5A991
MSN4700-WS2R	NVIDIA MSN4700-WS2R Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	Onyx	400GbE	QSFPDD	32x 400GbE	Recommended	5A991
MSN4700-WS2RC	NVIDIA MSN4700-WS2RC Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	400GbE	QSFPDD	32x 400GbE	Required	5A991
MSN4700-WS2RO	NVIDIA MSN4700-WS2RO Spectrum-3 400GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	400GbE	QSFPDD	32x 400GbE	Recommended	5A991
<b>Ethernet SN3000 Series Switches - Industry Leading Data Center Focused Features, Performance, Scalability and Visibility</b>								
MSN3700-CS2F	NVIDIA MSN3700-CS2F Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28	32x 100GbE	Recommended	5A991
MSN3700-CS2R	NVIDIA MSN3700-CS2R Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28	32x 100GbE	Recommended	5A991
MSN3700-VS2F	NVIDIA MSN3700-VS2F Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	Onyx	200GbE	QSFP56	32x 200GbE	Recommended	5A991
MSN3700-VS2R	NVIDIA MSN3700-VS2R Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	Onyx	200GbE	QSFP56	32x 200GbE	Recommended	5A991
MSN3700-CS2FC	NVIDIA MSN3700-CS2FC Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28	32x 100GbE	Required	5A991
MSN3700-CS2RC	NVIDIA MSN3700-CS2RC Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28	32x 100GbE	Required	5A991
MSN3700-VS2FC	NVIDIA MSN3700-VS2FC Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	200GbE	QSFP56	32x 200GbE	Required	5A991
MSN3700-VS2RC	NVIDIA MSN3700-VS2RC Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	200GbE	QSFP56	32x 200GbE	Required	5A991
MSN3700-CS2FO	NVIDIA MSN3700-CS2FO Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	32x 100GbE	Recommended	5A991
MSN3700-CS2RO	NVIDIA MSN3700-CS2RO Spectrum-2 100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	32x 100GbE	Recommended	5A991

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<b>Ethernet SN3000 Series Switches - Industry Leading Data Center Focused Features, Performance, Scalability and Visibility</b>								
MSN3700-VS2FO	NVIDIA MSN3700-VS2FO Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	200GbE	QSFP56	32x 200GbE	Recommended	5A991
MSN3700-VS2RO	NVIDIA MSN3700-VS2RO Spectrum-2 200GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	200GbE	QSFP56	32x 200GbE	Recommended	5A991
MSN3420-CB2F	NVIDIA MSN3420-CB2F Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Recommended	5A991
MSN3420-CB2R	NVIDIA MSN3420-CB2R Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Recommended	5A991
MSN3420-CB2FC	NVIDIA MSN3420-CB2FC Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Required	5A991
MSN3420-CB2RC	NVIDIA MSN3420-CB2RC Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Required	5A991
MSN3420-CB2FO	NVIDIA MSN3420-CB2FO Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Recommended	5A991
MSN3420-CB2RO	NVIDIA MSN3420-CB2RO Spectrum-2 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28   SFP28	48x 25GbE   12x 100GbE	Recommended	5A991
<b>Ethernet SN2000 Series Switches - Ideal for Leaf and Spine Data Center Solutions</b>								
MSN2010-CB2F	NVIDIA MSN2010-CB2F Spectrum 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28   SPF28	18x 25GbE   4x 100GbE	Recommended	5A991
MSN2010-CB2R	NVIDIA MSN2010-CB2R Spectrum 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Onyx	100GbE	QSFP28   SPF28	18x 25GbE   4x 100GbE	Recommended	5A991
MSN2100-BB2F	NVIDIA MSN2100-BB2F Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	Onyx	40GbE	QSFP28	16x 40GbE	Recommended	5A991
MSN2100-BB2R	NVIDIA MSN2100-BB2R Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	Onyx	40GbE	QSFP28	16x 40GbE	Recommended	5A991
MSN2010-CB2FC	NVIDIA MSN2010-CB2FC Spectrum 25GbE/100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28   SPF28	18x 25GbE   4x 100GbE	Required	5A991
MSN2100-CB2RC	NVIDIA MSN2100-CB2RC Spectrum 100GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	100GbE	QSFP28	16x 100GbE	Required	5A991
MSN2100-BB2FC	NVIDIA MSN2100-BB2FC Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	40GbE	QSFP28	16x 40GbE	Required	5A991
MSN2100-BB2RC	NVIDIA MSN2100-BB2RC Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	Cumulus Linux	40GbE	QSFP28	16x 40GbE	Required	5A991
MSN2100-CB2FO	NVIDIA MSN2100-CB2FO Spectrum 100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	16x 100GbE	Recommended	5A991
MSN2100-CB2RO	NVIDIA MSN2100-CB2RO Spectrum 100GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	100GbE	QSFP28	16x 100GbE	Recommended	5A991

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Part Number	Description	Technology	Operating System	Max Speed	Connector Type	Ports	Support Required	ECCN
<b>Ethernet SN2000 Series Switches - Ideal for Leaf and Spine Data Center Solutions</b>								
MSN2100-BB2FO	NVIDIA MSN2100-BB2FO Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	40GbE	QSFP28	16x 40GbE	Recommended	5A991
MSN2100-BB2RO	NVIDIA MSN2100-BB2RO Spectrum 40GbE 1U Open Ethernet Switch	Ethernet	ONIE/Bare Metal	40GbE	QSFP28	16x 40GbE	Recommended	5A991

**Recommended Support by Ethernet Switch SN4000/SN3000/SN2000 Series Part Numbers**

1 to 5 Year Silver Support available. See [NVIDIA Networking Service and Support line card](#) for details.

**Rack Mount Kits**

NVIDIA MTEF-KIT-J	Rack Fixed Mounting Kit for SN3700   SN3700C   SN3800   SN4600   SN4600C	-	-	-	-	-	-	-
NVIDIA MTEF-KIT-D	Rack Fixed Mounting Kit for SN2100   SN2010	-	-	-	-	-	-	-
NVIDIA MTEF-KIT-E	Rack Fixed Mounting Kit for SN2100   SN2010	-	-	-	-	-	-	-
NVIDIA MTEF-KIT-B	Rack Installation Kit for MSNxx Series Short Depth	-	-	-	-	-	-	-

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Part Number	Description	Technology	Max Speed	Connector Type	Ports	Support Required	ECCN
<b>InfiniBand CS8500 800 Port InfiniBand Chassis Switch - Fastest Interconnect Speed for High Performance Computing and Cloud Infrastructures</b>							
MCS8500	NVIDIA MCS8500 320Tb/s 800-Port HDR InfiniBand Chassis	InfiniBand	HDR	QSFP56	800	Required	5A991
<b>InfiniBand CS8500 - Accessory Products</b>							
AHX-22KW-350MM	NVIDIA AHX-22KW-350MM MCS85xx Liquid-to-Air Heat Exchanger	-	-	-	-	-	-
900-00796	NVIDIA 900-00796 MCS85xx Liquid-to-Liquid CDU	-	-	-	-	-	-
MTDF-MTN-A	NVIDIA MTDF-MTN-A MCS85xx Director Systems Maintenance Equipment Kit	-	-	-	-	-	-
MTDF-LCD-A	NVIDIA MTDF-LCD-A MCS85xx Director Systems 7" LCD Screen Tablet	-	-	-	-	-	-
MTDF-CP-B	NVIDIA MTDF-CP-B MCS85XX Director System Cable Supporter	-	-	-	-	-	-
MTDF-KIT-C	NVIDIA MTDF-KIT-C MCS85XX Systems Rail Kit	-	-	-	-	-	-
MTDF-CH-D	NVIDIA MTDF-CH-D MCS85XX Cable Holder	-	-	-	-	-	-
MTDF-LIQ-B	NVIDIA MTDF-LIQ-B MCS85xx Director Chassis 19 Liters PG25 Coolant	-	-	-	-	-	-
MTDF-LIQ-A	NVIDIA MTDF-LIQ-A MCS85xx Director Chassis Water Cooling Set	-	-	-	-	-	-
MQM8520-H	NVIDIA MQM8520-H Quantum HDR InfiniBand Spine Blade	-	-	-	-	-	-
MQM8510-H	NVIDIA MQM8510-H Quantum HDR InfiniBand Leaf Blade	-	-	-	-	-	-
MMB8500	NVIDIA MMB8500 X86 Dual-Core Chassis Management Module	-	-	-	-	-	-
<b>InfiniBand CS7500 648 Port Infiniband Chassis Switch - Highest Performing Fabric Solution in a 28U Form Factor</b>							
MCS7500	NVIDIA MCS7500 130Tb/s 648-Port EDR InfiniBand Chassis Switch	InfiniBand	EDR	QSFP28	648	Required	5A991
<b>InfiniBand CS7500 324 Port Infiniband Chassis Switch - Highest Performing Fabric Solution in a 16U Form Factor</b>							
MCS7510	NVIDIA MCS7510 65Tb/s 324-Port EDR InfiniBand Chassis Switch	InfiniBand	EDR	QSFP28	324	Required	-
<b>InfiniBand CS7520 216 Port Infiniband Chassis Switch - Highest Performing Fabric Solution in a 12U Form Factor</b>							
MCS7520	NVIDIA MCS7520 43Tb/s 216-Port EDR InfiniBand Chassis Switch	InfiniBand	EDR	QSFP28	216	Required	5A991

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Part Number	Description	Technology	Max Speed	Connector Type	Ports	Support Required	ECCN
<b>InfiniBand 8700 Series Quantum HDR InfiniBand Switches</b>							
MQM8700-HS2F	NVIDIA MQM8700-HS2F Quantum HDR InfiniBand Switch	InfiniBand	HDR	QSFP56	40	Required	5A991
MQM8700-HS2R	NVIDIA MQM8700-HS2R Quantum HDR InfiniBand Switch	InfiniBand	HDR	QSFP56	40	Required	5A991
MQM8790-HS2F	NVIDIA MQM8790-HS2F Quantum HDR InfiniBand Switch	InfiniBand	HDR	QSFP56	40	Required	5A991
MQM8790-HS2R	NVIDIA MQM8790-HS2R Quantum HDR InfiniBand Switch	InfiniBand	HDR	QSFP56	40	Required	5A991
<b>InfiniBand 7800 Series EDR InfiniBand Switches</b>							
MSB7800-ES2F	NVIDIA MSB7800-ES2F Switch-IB 2 Based EDR InfiniBand 1U Switch	InfiniBand	EDR	QSFP28	36	Required	5A991
MSB7890-ES2F	NVIDIA MSB7890-ES2F Switch-IB 2 Based EDR InfiniBand 1U Switch	InfiniBand	EDR	QSFP28	36	Required	5A991
MSB7800-ES2R	NVIDIA MSB7800-ES2R Switch-IB 2 Based EDR InfiniBand 1U Switch	InfiniBand	EDR	QSFP28	36	Required	5A991
MSB7890-ES2R	NVIDIA MSB7890-ES2R Switch-IB 2 Based EDR InfiniBand 1U Switch	InfiniBand	EDR	QSFP28	36	Required	5A991
<b>InfiniBand 7700 Series EDR InfiniBand Router</b>							
MSB7780-ES2F	NVIDIA MSB7780-ES2F Switch-IB Based EDR InfiniBand 1U Router	InfiniBand	EDR	QSFP28	36	Required	5A991
MSB7780-ES2R	NVIDIA MSB7780-ES2R Switch-IB Based EDR InfiniBand 1U Router	InfiniBand	EDR	QSFP28	36	Required	5A991
<b>InfiniBand to Ethernet Gateways</b>							
MSX6710G-FS2F2	NVIDIA MSX6710G-FS2F2 SwitchX-2 InfiniBand to Ethernet Gateway	InfiniBand	FDR   40GbE	QSFP+	36	Recommended	5A991
MSX6710G-FS2R2	NVIDIA MSX6710G-FS2R2 SwitchX-2 InfiniBand to Ethernet Gateway	InfiniBand	FDR   40GbE	QSFP+	36	Recommended	5A991
<b>Required Support InfiniBand CS8500/CS7500/CS7520</b>							
1 to 5 Year Silver Support available. See NVIDIA Networking Service and Support line card for details.							
<b>Required Support InfiniBand 8700 Series Quantum Switches</b>							
1 to 5 Year Silver Support available. See NVIDIA Networking Service and Support line card for details.							
<b>Required Support InfiniBand 7800/7890 Series Switches</b>							
SUP-SB7800-1S	1 to 5 Year Silver Support available. See NVIDIA Networking Service and Support line card for details.						

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# InfiniBand Switches Linecard

Part Number	Description	Technology	Max Speed	Connector Type	Ports	Support Required	ECCN
<b>Required Support InfiniBand 7700 Series Routers</b>							
SUP-SB7780-1S	1 to 5 Year Silver Support available. See <a href="#">NVIDIA Networking Service and Support line card for details.</a>						
<b>Recommended Support InfiniBand to Ethernet Gateways</b>							
SUP-SX6710G-1S	1 to 5 Year Silver Support available. See <a href="#">NVIDIA Networking Service and Support line card for details.</a>						

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# DPU and ConnectX-6 SmartNIC Adapters Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optional)	Support Required	ECCN
<b>BlueField DPUs</b>								
MBF1M332A-AECAT	NVIDIA MBF1M332A-AECAT BlueField SmartNIC DPU 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16   x8	Required	5A002.a
MBF1M332A-AENAT	NVIDIA MBF1M332A-AENAT BlueField SmartNIC DPU 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16   x8	Required	5A991
MBF1M332A-ASCAT	NVIDIA MBF1M332A-ASCAT BlueField SmartNIC DPU 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16   x8	Required	5A002.a
MBF1M332A-ASNAT	NVIDIA MBF1M332A-ASNAT BlueField SmartNIC DPU 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16   x8	Required	5A991
MBF1L516B-CSNAT	NVIDIA MBF1L516B-CSNAT BlueField SmartNIC DPU 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 or 4 x16   x8	Required	5A991
MBF1L516A-CSNAT	NVIDIA MBF1L516A-CSNAT BlueField SmartNIC DPU 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 or 4 x16   x8	Required	5A991
MBF1L516A-CSCAT	NVIDIA MBF1L516A-CSCAT BlueField SmartNIC DPU 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 or 4 x16   x8	Required	5A002.a
<b>BlueField-2 DPUs</b>								
MBF2H322A-AECOT	NVIDIA MBF2H322A-AECOT BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2H322A-AEEOT	NVIDIA MBF2H322A-AEEOT BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a.1
MBF2H322A-AENET	NVIDIA MBF2H322A-AENET BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A991
MBF2H332A-AECOT	NVIDIA MBF2H332A-AECOT BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2H332A-AEEOT	NVIDIA MBF2H332A-AEEOT BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2H332A-AENOT	NVIDIA MBF2H332A-AENOT BlueField-2 SmartNIC P-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A991
MBF2H516A-CEEOT	NVIDIA MBF2H516A-CEEOT BlueField-2 SmartNIC P-Series DPU 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2M322A-AECOT	NVIDIA MBF2M322A-AECOT BlueField-2 SmartNIC E-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2M322A-AEEOT	NVIDIA MBF2M322A-AEEOT BlueField-2 SmartNIC E-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2M322A-AENET	NVIDIA MBF2M322A-AENET BlueField-2 SmartNIC E-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A991
MBF2M322A-AENOT	NVIDIA MBF2M322A-AENOT BlueField-2 SmartNIC E-Series DPU 25GbE	Ethernet	25GbE	SFP56	Dual	Gen 4 x16   x8	Required	5A991
MBF2M516A-CENOT	NVIDIA MBF2M516A-CENOT BlueField-2 SmartNIC E-Series DPU 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 4 x16   x8	Required	5A991
MBF2M516A-CEEOT	NVIDIA MBF2M516A-CEEOT BlueField-2 SmartNIC E-Series DPU 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 4 x16   x8	Required	5A002.a

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# DPU and ConnectX-6 SmartNIC Adapters Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optimal)	Support Required	ECCN
<b>BlueField-2 DPUs</b>								
MBF2H516A-EEEOT	NVIDIA MBF2H516A-EEEOT BlueField-2 SmartNIC P-Series DPU 100GbE/EDR/HDR100	InfiniBand	100GbE   EDR   HDR100	QSFP56	Dual	Gen 4 x16   x8	Required	5A002.a
MBF2M516A-EEEOT	NVIDIA MBF2M516A-EEEOT BlueField-2 SmartNIC E-Series DPU 100GbE/EDR/HDR100	InfiniBand	100GbE   EDR   HDR100	QSFP56	Dual	Gen 4 x16   x8	Required	5A002.a
<b>Required Support for BlueField and BlueField-2 DPUs</b>								
1 to 5 Year Silver Support available. See NVIDIA Networking Service and Support line card for details.								
<b>ConnectX-6 DX EN SmartNIC Adapters</b>								
MCX623432AC-ADAB	NVIDIA MCX623432AC-ADAB ConnectX-6 Dx EN Adapter Card OCP3.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623432AE-ADAB	NVIDIA MCX623432AE-ADAB ConnectX-6 Dx EN Adapter Card OCP3.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623432AN-ADAB	NVIDIA MCX623432AN-ADAB ConnectX-6 Dx EN Adapter Card OCP3.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX621102AE-ADAT	NVIDIA MCX621102AE-ADAT ConnectX-6 Dx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX621102AN-ADAT	NVIDIA MCX621102AN-ADAT ConnectX-6 Dx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX621102AN-ADAT	NVIDIA MCX621102AN-ADAT ConnectX-6 Dx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX621102AC-ADAT	NVIDIA MCX621102AC-ADAT ConnectX-6 Dx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623102AN-ADAT	NVIDIA MCX623102AN-ADAT ConnectX-6 Dx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623102AC-GDAT	NVIDIA MCX623102AC-GDAT ConnectX-6 Dx EN Adapter Card 50GbE	Ethernet	50GbE	SFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623102AE-GDAT	NVIDIA MCX623102AE-GDAT ConnectX-6 Dx EN Adapter Card 50GbE	Ethernet	50GbE	SFP56	Dual	Gen 3 or 4 x16	Recommended	5A002
MCX623102AN-GDAT	NVIDIA MCX623102AN-GDAT ConnectX-6 Dx EN Adapter Card 50GbE	Ethernet	50GbE	SFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623432AC-GDAB	NVIDIA MCX623432AC-GDAB ConnectX-6 Dx EN Adapter Card OCP3.0 50GbE	Ethernet	50GbE	SFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623432AN-GDAB	NVIDIA MCX623432AN-GDAB ConnectX-6 Dx EN Adapter Card OCP3.0 50GbE	Ethernet	50GbE	SFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623105AC-CDAT	NVIDIA MCX623105AC-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623105AN-CDAT	NVIDIA MCX623105AN-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX623106AC-CDAT	NVIDIA MCX623106AC-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a

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# DPU and ConnectX-6 SmartNIC Adapters Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optional)	Support Required	ECCN
<b>ConnectX-6 DX EN SmartNIC Adapters</b>								
MCX623106AE-CDAT	NVIDIA MCX623106AE-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623106AN-CDAT	NVIDIA MCX623106AN-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623106AS-CDAT	NVIDIA MCX623106AS-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623405AC-CDAN	NVIDIA MCX623405AC-CDAN ConnectX-6 Dx EN Adapter Card OCP2.0 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623405AN-CDAN	NVIDIA MCX623405AN-CDAN ConnectX-6 Dx EN Adapter Card OCP2.0 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5a991
MCX623435AC-CDAB	NVIDIA MCX623435AC-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623435AE-CDAB	NVIDIA MCX623435AE-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623435AN-CDAB	NVIDIA MCX623435AN-CDAB ConnectX-6 EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX623435MN-CDAB	NVIDIA MCX623435MN-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX623436AC-CDAB	NVIDIA MCX623436AC-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623436AE-CDAB	NVIDIA MCX623436AE-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A002.a
MCX623436AN-CDAB	NVIDIA MCX623436AN-CDAB ConnectX-6 Dx EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623106PN-CDAT	NVIDIA MCX623106PN-CDAT ConnectX-6 Dx EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX623105AC-VDAT	NVIDIA MCX623105AC-VDAT ConnectX-6 Dx EN Adapter Card 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623105AE-VDAT	NVIDIA MCX623105AE-VDAT ConnectX-6 Dx EN Adapter Card 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623105AN-VDAT	NVIDIA MCX623105AN-VDAT ConnectX-6 Dx EN Adapter Card 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX623435AC-VDAB	NVIDIA MCX623435AC-VDAB ConnectX-6 Dx EN Adapter Card OCP3.0 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A002.a
MCX623435AN-VDAB	NVIDIA MCX623435AN-VDAB ConnectX-6 Dx EN Adapter Card OCP3.0 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX614106A-CCAT	NVIDIA MCX614106A-CCAT ConnectX-6 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX614106A-CCAT	NVIDIA MCX614106A-CCAT ConnectX-6 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991
MCX614105A-VCAT	NVIDIA MCX614105A-VCAT ConnectX-6 EN Adapter Card 200GbE	Ethernet	200GbE	QSFP56	Single	Gen 3 or 4 x16	Recommended	5A991
MCX614106A-VCAT	NVIDIA MCX614106A-VCAT ConnectX-6 EN Adapter Card 200GbE	Ethernet	200GbE	QSFP56	Dual	Gen 3 or 4 x16	Recommended	5A991

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# DPU and ConnectX-6 SmartNIC Adapters Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optimal)	Support Required	ECCN
<b>ConnectX-6 VPI SmartNIC Adapters</b>								
MCX654106A-HCAT	NVIDIA MCX654106A-HCAT ConnectX-6 VPI Adapter Card HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX654106A-ECAT	NVIDIA MCX654106A-ECAT ConnectX-6 VPI Adapter Card HDR100/EDR/100GbE	InfiniBand	HDR 100   ECR IB   100GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX654105A-HCAT	NVIDIA MCX654105A-HCAT ConnectX-6 VPI Adapter Card HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX653436A-HDAI	NVIDIA MCX653436A-HDAI ConnectX-6 VPI Adapter Card OCP3.0 HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX653435A-HDAI	NVIDIA MCX653435A-HDAI ConnectX-6 VPI Adapter Card OCP3.0 HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Single	Gen 3 or 4 x16	Required	5A991
MCX653435A-EDAI	NVIDIA MCX653435A-EDAI ConnectX-6 VPI Adapter Card OCP3.0 HDR100/EDR/100GbE	InfiniBand	HDR 100   ECR IB   100GbE	QSFP56	Single	Gen 3 or 4 x16	Required	5A991
MCX653106A-HDAT-SP	NVIDIA MCX653106A-HDAT-SP ConnectX-6 VPI Adapter Card HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX653106A-EFAT	NVIDIA MCX653106A-EFAT ConnectX-6 VPI Adapter Card HDR100/EDR/100GbE	InfiniBand	HDR 100   ECR IB   100GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX653106A-ECAT-SP	NVIDIA MCX653106A-ECAT-SP ConnectX-6 VPI Adapter Card HDR100/EDR/100GbE	InfiniBand	HDR 100   ECR IB   100GbE	QSFP56	Dual	Gen 3 or 4 x16	Required	5A991
MCX653105A-HDAT-SP	NVIDIA MCX653105A-HDAT-SP ConnectX-6 VPI Adapter Card HDR/200GbE	InfiniBand	HDR   200GbE	QSFP56	Single	Gen 3 or 4 x16	Required	5A991
MCX653105A-EFAT	NVIDIA MCX653105A-EFAT ConnectX-6 VPI Adapter Card HDR100/EDR/100GbE	infiniBand	HDR 100   ECR IB   100GbE	QSFP56	Single	Gen 3 or 4 x16	Required	5A991
MCX653105A-ECAT-SP	NVIDIA MCX653105A-ECAT-SP ConnectX-6 VPI Adapter Card HDR100/EDR/100GbE	infiniBand	HDR 100   ECR IB   100GbE	QSFP56	Single	Gen 3 or 4 x16	Required	5A991

## Required Support for ConnectX-6 VPI SmartNIC Adapters

1 to 5 Year Silver Support available. See [NVIDIA Networking Service and Support line card](#) for details.

## Cables for ConnectX-6 DX EN and ConnectX-6 EN SmartNIC Adapters

See [NVIDIA LINKX, Ethernet Cables and Transceivers Linecard](#) for details.

## Cables for ConnectX-6 VDI and ConnectX-6 VPI SmartNIC Adapters

See [NVIDIA LINKX, Ethernet Cables and Transceivers Linecard](#) for details.

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# ConnectX-5 SmartNIC Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optimal)	Support Required	ECCN
<b>ConnectX-5 Ethernet SmartNIC Adapters</b>								
MCX512A-ACAT	NVIDIA MCX512A-ACAT ConnectX-5 EN Adapter Card 10/25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX512F-ACAT	NVIDIA MCX512F-ACAT ConnectX-5 EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX542A-ACAN	NVIDIA MCX542A-ACAN ConnectX-5 EN Adapter Card OCP2.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX511F-ACAT	NVIDIA MCX511F-ACAT ConnectX-5 EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX542B-ACAN	NVIDIA MCX542B-ACAN ConnectX-5 EN Adapter Card OCP2.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX512A-ADAT	NVIDIA MCX512A-ADAT ConnectX-5 Ex EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX512A-ACUT	NVIDIA MCX512A-ACUT ConnectX-5 EN Adapter Card 10/25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX562A-ACAI	NVIDIA MCX562A-ACAI ConnectX-5 EN Adapter Card OCP3.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX562A-ACAB	NVIDIA MCX562A-ACAB ConnectX-5 EN Adapter Card OCP3.0 25GbE	Ethernet	25GbE	SFP28	Dual	Gen 3 x16	Recommended	5A991
MCX516A-BDAT	NVIDIA MCX516A-BDAT ConnectX-5 Ex EN Adapter Card 40GbE	Ethernet	40GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX546A-BCAN	NVIDIA MCX546A-BCAN ConnectX-5 Ex EN Adapter Card OCP 40GbE	Ethernet	40GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX516A-GCAT	NVIDIA MCX516A-GCAT ConnectX-5 EN Adapter Card 50GbE	Ethernet	50GbE	QSFP28	Dual	Gen 3 x16	Recommended	5A991
MCX516A-CCAT	NVIDIA MCX516A-CCAT ConnectX-5 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 x16	Recommended	5A991
MCX516A-CDAT	NVIDIA MCX516A-CDAT ConnectX-5 Ex EN Adapter Card 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX515A-CCAT	NVIDIA MCX515A-CCAT ConnectX-5 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 x16	Recommended	5A991
MCX546A-CDAN	NVIDIA MCX546A-CDAN ConnectX-5 Ex EN Adapter Card OCP2.0 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX516A-CCHT	NVIDIA MCX516A-CCHT ConnectX-5 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 x16	Recommended	5A991
MCX515A-CCUT	NVIDIA MCX515A-CCUT ConnectX-5 EN Adapter Card 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 3 x16	Recommended	5A991
MCX565M-CDAB	NVIDIA MCX565M-CDAB ConnectX-5 Ex EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP28	Single	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX566A-CAI	NVIDIA MCX566A-CAI ConnectX-5 Ex EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991

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Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optional)	Support Required	ECCN
<b>ConnectX-5 Ethernet SmartNIC Adapters</b>								
MCX545A-CCUN	NVIDIA MCX545A-CCUN ConnectX-5 EN Adapter Card OCP2.0 100GbE	Ethernet	100GbE	QSFP28	Single	Gen 3 x16	Recommended	5A991
MCX566A-CDAB	NVIDIA MCX566A-CDAB ConnectX-5 Ex EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX565M-CDAI	NVIDIA MCX565M-CDAI ConnectX-5 Ex EN Adapter Card OCP3.0 100GbE	Ethernet	100GbE	QSFP28	Single	Gen 4 x16   Gen 3 x16	Recommended	5A991
MCX545A-CCAN	NVIDIA MCX545A-CCAN ConnectX-5 EN Adapter Card OCP2.0 100GbE	Ethernet	100GbE	QSFP28	Single	Gen 3 x16	Recommended	5A991
<b>ConnectX-5 InfiniBand SmartNIC Adapters</b>								
MCX556A-ECAT	NVIDIA MCX556A-ECAT ConnectX-5 VPI Adapter Card EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Required	5A991
MCX556A-EDAT	NVIDIA MCX556A-EDAT ConnectX-5 Ex VPI Adapter Card EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Required	5A991
MCX555A-ECAT	NVIDIA MCX555A-ECAT ConnectX-5 VPI Adapter Card EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Single	Gen 4 x16   Gen 3 x16	Required	5A991
MCX556A-ECUT	NVIDIA MCX556A-ECUT ConnectX-5 VPI Adapter Card EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Required	5A991
MCX556M-ECAT-S25	NVIDIA MCX556M-ECAT-S25 ConnectX-5 VPI Adapter Card EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Required	5A991
MCX545B-ECAN	NVIDIA MCX545B-ECAN ConnectX-5 VPI Adapter Card OCP EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Single	Gen 4 x16   Gen 3 x16	Required	5A991
MCX546A-EDAN	NVIDIA MCX546A-EDAN ConnectX-5 Ex VPI Adapter Card OCP2.0 EDR/100GbE	InfiniBand	EDR   100GbE	QSFP28	Dual	Gen 4 x16   Gen 3 x16	Required	5A991

**Recommended Support for ConnectX-5 Ethernet SmartNIC Adapters**

1 to 5 Year Silver Support available. See [NVIDIA Networking Service and Support line card for details](#)

**Required Support for ConnectX-5 InfiniBand SmartNIC Adapters**

1 to 5 Year Silver Support available. See [NVIDIA Networking Service and Support line card for details](#)

**Cables for ConnectX-5 25GbE, 50GbE or 100GbE SmartNIC Adapters**

See [NVIDIA LINKX, Ethernet Cables and Transceivers Linecard for details](#).

**Cables for ConnectX-5 InfiniBand SmartNIC Adapters**

See [NVIDIA LINKX, InfiniBand Cables and Transceivers Linecard for details](#).

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# ConnectX-4 SmartNIC Linecard



Part Number	Description	Technology	Max Speed	Connector Type	Ports	PCIe (Optimal)	Support Required	ECCN
<b>ConnectX-4 Ethernet SmartNIC Adapters</b>								
MCX4111A-ACAT	NVIDIA MCX4111A-ACAT ConnectX-4 Lx EN Adapter Card 25GbE	Ethernet	25GbE	SFP28	Single	PCIe 3 x16	Recommended	5A991

## Recommended Support for ConnectX-4 Ethernet SmartNIC Adapters

1 to 5 Year Silver Support available. See [NVIDIA Networking Service and Support line card](#) for details.

## Cables for ConnectX-4 10GbE, 25GbE, 40GbE or 50GbE SmartNIC Adapters

See [NVIDIA LINKX, Ethernet Cables and Transceivers Linecard](#) for details.

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