NVIDIA ConnectX-6 Dx Adapter Cards Firmware Release Notes v22.51.1002

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Release Notes Update History

Version	Date	Description
22.51.1002	November 2026	Initial release of this Release Notes version

Overview

Firmware which is added at the time of manufacturing, is used to run user programs on the device and can be thought of as the software that allows hardware to run. Embedded firmware is used to control the functions of various hardware devices and systems, much like a computer's operating system (OS) controls the function of software applications. Firmware may be written into read-only memory (ROM), erasable programmable read-only memory (EPROM) or flash memory.

1 Firmware Download

Please visit the firmware webpage.

2 Document Revision History

A list of the changes made to this document are provided in Document Revision History.

Firmware Compatible Products

The chapter contains the following sections:

These are the release notes for the NVIDIA® ConnectX®-6 Dx adapters firmware. This firmware supports the following protocols:

- Ethernet - 1GbE, 10GbE, 25GbE, 40GbE, 50GbE[1], 100GbE[1], 200GbE[2]
- PCI Express 4.0, supporting backwards compatibility for v3.0, v2.0 and v1.1

[1]. Speed that supports both NRZ and PAM4 modes in Force mode and Auto-Negotiation mode.

[2]. Speed that supports PAM4 mode only.



When connecting an NVIDIA-to-NVIDIA adapter card in ETH PAM4 speeds, Auto-Neg should always be enabled.



Please make sure to use a PCIe slot that can supply the required power to the ConnectX-6 Dx adapter card as stated in section Specifications in the adapter card's User Manual.

1 Supported Devices

This firmware supports the devices and protocols listed below:

Refer to the hardware documentation for the list of supported devices.

2 Driver Software, Tools and Switch Firmware

The following are the drivers' software, tools, switch/HCA firmware versions tested that you can upgrade from or downgrade to when using this firmware version:

	Supported Version
ConnectX-6 Dx Firmware	22.51.1002 / 22.50.1002 / 22.49.1014
DOCA-HOST	3.6.0 / 3.5 0 **Note:** For the list of the supported Operating Systems, please refer to the driver's Release Notes.
WinOF-2	26.10.50000 / 26.7.50000 / 26.1.50000 **Note:** For the list of the supported Operating Systems, please refer to the driver's Release Notes.
MFT	4.38.0-134 / 4.37.0-154 / 4.36.0-147 **Note:** For the list of the supported Operating Systems, please refer to the driver's Release Notes.
FlexBoot	3.9.101
UEFI	14.42.15
Cumulus	5.15.0 onwards

Changes and New Features

To generate PLDM packages for firmware updates, users must install and use the MFT version that corresponds with the respective firmware release.

Feature/Change	Description
22.51.1002	
Live Firmware Patch (LFWP) on LTS Branches	Starting with LTS 2026, supported devices can apply LTS patches via live update within the same branch, with no firmware reset required.
Multiplane vport speed reporting	Added explicit speed reporting for two aggregated speed notions per vport: cap_tx_speed (the maximum speed the vport could reach under any circumstances, reflecting the internal connection topology) and effective_tx_speed (the maximum speed currently available to the vport, accounting only for link-up ports).
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

1 Important Notes

SR-IOV - Virtual Functions (VF) per Port - The maximum Virtual Functions (VF) per port is 127. For further information, see Known Issues.

It is recommended to enable the "above 4G decoding" BIOS setting for features that require a large amount of PCIe resources (e.g., SR-IOV with numerous VFs, PCIe Emulated Switch, Large BAR Requests).

2 Customer Affecting Changes

1 Changes in This Release

This section provides a list of changes that took place in the current version and break compatibility/interface, discontinue support for features and/or OS versions, etc.

Introduced in Version	Description
N/A	N/A

2 Changes Planned for Future Releases

This section provides a list of changes that will take place in a future version of the product and will break compatibility/interface, discontinue support for features and/or OS versions, etc.

Planned for Version	Description
N/A	N/A

3 Changes in Earlier Releases

This section provides a list of changes that took place throughout the past two major releases that broke compatibility/interface, discontinued support for features and/or OS versions, etc.

For an archive of all changes, please refer to the Release Notes History section.

Planned for Version	Description
xx.47.1026	To align with updated Microsoft UEFI Secure Boot requirements and the upcoming end-of-life of the 2011 Certificate Authority (CA), NVIDIA is transitioning to the 2023 CA. To ensure successful loading of the Expansion ROM (ExpROM) during the UEFI Secure Boot process, system BIOS and operating system trust stores must be updated to include the 2023 CA. **Note:** When performing a firmware update of ConnectX and BlueField devices the new certificate is required for Secure Boot. To continue supporting Secure Boot, systems must be updated to recognize the "Microsoft Option ROM UEFI CA 2023."

4 Discontinued Features

List of features which are supported in previous generations of hardware devices.

N/A

3 Declared Unsupported Features

This section provides a list of features that are not supported by the software.

1 Unsupported Features

The following advanced feature are unsupported in the current firmware version:

- The following service types:
  - SyncUMR
  - Mellanox transport
  - RAW IPv6
- INT-A not supported for EQs only MSI-X
- PCI VPD write flow (RO flow supported)
- Streaming Receive Queue (STRQ) and collapsed CQ
- Subnet Manager (SM) on VFs
- RoCE LAG in Multi-Host/Socket-Direct

2 Unsupported Commands

- QUERY_MAD_DEMUX
- SET_MAD_DEMUX
- CREATE_RQ - MEMORY_RQ_RMP
- MODIFY_LAG_ASYNC_EVENT

Bug Fixes in this Firmware Version

Internal ref.	Issue
5157189 / 4866555	**Description:** Resolved an issue where, when massive flows occurred in parallel with PCC, INIT2RTR could report a false alarm with syndrome 0x7 "dead IRISC."
	Keywords: IRISC, dead IRISC, PCC, INIT2RTR, syndrome 0x7
	Detected in version: 22.47.1026
	Fixed in release: 22.51.1002
4988444	**Description:** Resolved a false-positive "IRISC stuck" detection after cold reboot on Windows.
	Keywords: IRISC stuck, Windows, cold reboot, false positive
	Detected in version: 22.49.1014
	Fixed in release: 22.51.1002
5019624	**Description:** Resolved an issue where a PCIe SBR did not reset the MCTP discovery state, causing the device to miss EndpointDiscovery requests.
	Keywords: PCIe SBR, MCTP, EndpointDiscovery, reset
	Detected in version: 22.50.1002
	Fixed in release: 22.51.1002

For a list of old Bug Fixes, please see Bug Fixes History.

Known Issues

VF Network Function Limitations in SRIOV Legacy Mode

Dual Port Device	Single Port Device
127 VF per PF (254 functions)	127

VF Network Function Limitations in Switchdev Mode

Dual Port Device	Single Port Device
127 VF per PF (254 functions)	127

VF+SF Network Function Limitations in Switchdev Mode

Dual Port Device	Single Port Device
• 127 VF per PF (254 functions) • 512 PF+VF+SF per PF (1024 functions)	• 127 VF (127 functions) • 512 PF+VF+SF per PF (512 functions)

Known Issues

Internal Ref.	Issue
4970263 / 4989004	**Description:** A high-temperature assert may be reported only the first time the chip reaches the thermal threshold.
	Workaround: N/A
	Keywords: Temperature
	Detected in version: 22.49.1014
5187285 / 5228127 / 4941054	**Description:** Probe response packets sent by ConnectX-6 Dx cannot be recognized by ConnectX-8 or ConnectX-9. As a result, interop traffic from ConnectX-8 or ConnectX-9 to ConnectX-6 Dx may experience low bandwidth due to probe timeouts in the probe-based algorithm.
	Workaround: N/A
	Keywords: PCC, RTT, probe, interop
	Detected in version: 22.50.1002
4901395 / 4919262	**Description:** When PXE is enabled for both Legacy (FlexBoot) and UEFI drivers, the UEFI driver supports only a single TFTP session after the DHCP handshake.

Internal Ref.	Issue
	Workaround: For scenarios that require multiple concurrent TFTP sessions, disable PXE filters via the HCA HII menu.
	Keywords: PXE, Filter enabled, UEFI
	Detected in version: 22.47.1088
4893639	**Description:** Direct Memory Access (DMA) protection is not supported in the ipxe.efi driver.
	Workaround: N/A
	Keywords: DMA
	Detected in version: 22.47.1088
4721472	**Description:** When VXLAN or other encapsulation is used, the additional header is inserted after the SXD unit, and this header is not included in the rate calculations. VQoS distributes tokens based on the SXD output. Therefore, when VQoS allocates 130 Gbps (the configured rate limit), SXD transmits 130 Gbps, but downstream units (SXW/SXCC/SXE) add the encapsulation header. As a result, the actual line rate observed on the wire (e.g., via mlnxperf) may exceed the configured rate limit.
	Workaround: N/A
	Keywords: VxLAN, VQoS
	Detected in version: 22.47.1088
4394475	**Description:** The existing congestion control configuration applies globally, rather than on a per-priority basis.
	Workaround: Ensure that the configuration values for all priorities are aligned in either `mlxconfig ROCE_CC_PRIO_MASK_P$port` or `sysfs ecn/roce_rp/enable/$port`.
	Keywords: Congestion control, ROCE_CC_PRIO
	Detected in version: 22.45.1020
3464393	**Description:** PhyLess Reset is currently not supported.
	Workaround: N/A
	Keywords: PhyLess Reset
	Discovered in Version: 22.39.1002
3525865	**Description:** Unexpected system behavior might be observed if the driver is loaded while reset is in progress.
	Workaround: N/A
	Keywords: Sync 1 reset, firmware reset
	Discovered in Version: 22.39.1002
3547022	**Description:** When `tx_port_ts` is set to `"true"`, due to a compensation mechanism in the Tx timestamp available in some hardware Rx timestamp errors, a symmetrical error and no clock offset occur when using the timestamps to synchronize the device clock. This might also cause an error while using timestamps for delay measurements (e,g., delay measurements reported by a PTP daemon) and even negative delay measurements in some cases.
	Workaround: N/A
	Keywords: PTP path delay
	Discovered in Version: 22.38.1002

Internal Ref.	Issue
3449960	**Description:** In some cases, performance degradation might be experienced when wrong usage of extra engines dedicated to DMA is removed.
	Workaround: N/A
	Keywords: Performance
	Discovered in Version: 22.37.1014
2878841	**Description:** Firmware rollback fails for the signature retransmit flow if the QPN field is configured in the mkey (as it only allows the given QP to use this Mkey) as the firmware rollback flow relies on an internal QP that uses the mkey.
	Workaround: N/A
	Keywords: Signature retransmit flow
	Discovered in Version: 22.37.1014
3171699	**Description:** Occasionally, after a few toggles, link may not raise when changing the speed when in loopback mode.
	Workaround: N/A
	Keywords: Link speed, loopback
	Discovered in Version: 22.37.1014
2444892	**Description:** PMA loopback feature is supported only with NRZ speeds.
	Workaround: N/A
	Keywords: PMA loopback, NRZ
	Discovered in Version: 22.36.1010
3266807	**Description:** PMA loop-back is not supported on PAM4 speeds.
	Workaround: N/A
	Keywords: Counters, CRC
	Discovered in Version: 22.35.2302
3267506	**Description:** CRC is included in the traffic byte counters as a port byte counter.
	Workaround: N/A
	Keywords: Counters, CRC
	Discovered in Version: 22.35.2302
3235397	**Description:** PCC force mode does not work if the link is raised after disabling DCQCN with PPCC.
	Workaround: N/A
	Keywords: PCC
	Discovered in Version: 22.35.1012
3200779	**Description:** Changing dynamic PCIe link width is not supported.
	Workaround: N/A
	Keywords: PCIe
	Discovered in Version: 22.34.1002

Internal Ref.	Issue
3033910	**Description:** BAR misses caused by a memory write/read actions are not reported in the AER and the device status.
	Workaround: N/A
	Keywords: BAR miss, AER
	Discovered in Version: 22.34.1002
3141072	**Description:** The "max_shaper_rate" configuration query via QEEC mlxreg returns a value translated to hardware granularity.
	Workaround: N/A
	Keywords: RX Rate-Limiter, Multi-host
	Discovered in Version: 22.34.1002
3106146	**Description:** Live migration of MPV affiliated function pair is not supported when port numbers are changed. Each function should stay on the same port number as before migration.
	Workaround: N/A
	Keywords: MPV live migration
	Discovered in Version: 22.34.1002
2870970	**Description:** GTP encapsulation (flex parser profile 3) is limited to the NIC domain. Encapsulating in the FDB domain will render a 0-size length in GTP header.
	Workaround: N/A
	Keywords: GTP encapsulation
	Discovered in Version: 22.34.1002
2937445	**Description:** A long linkup time can be seen 1/5 toggles when raising link in autoneg flow in ConnectX-6 Dx vs Ixia in 200G_4x.
	Workaround: N/A
	Keywords: AN, port toggling, Ixia
	Discovered in Version: 22.33.1048
2850003	**Description:** Occasionally, when rising a logical link, the link recovery counter is increase by 1.
	Workaround: N/A
	Keywords: Link recovery counter
	Discovered in Version: 22.33.1048
2825403	**Description:** When connecting NVIDIA Spectrum-3 devices and ConnectX-6 Dx devices with DAC MCP7F80-W002R26 while splitting to 8x with 50GbE per lane in force mode, effective BER may appear.
	Workaround: N/A
	Keywords: NVIDIA Spectrum-3, Cables, Split
	Discovered in Version: 22.32.2004

Internal Ref.	Issue
2864238	**Description:** VPD cannot be accessed after firmware upgrade or reset when the following sequence is performed: 1. Upgrade to a new firmware and perform a cold reboot 2. Downgrade to an old firmware 3. Run fwreset 4. Upgrade to a new firmware 5. Run fwreset
	Workaround: Run the upgrade or reset sequence as follow: 1. Upgrade to a new firmware and perform a cold reboot 2. Downgrade to an old firmware 3. Run fwreset 4. Upgrade to a new firmware 5. **Perform a cold reboot**
	Keywords: VDP
	Discovered in Version: 22.32.1010
2863674	**Description:** Host management magic packet is not supported in Socket-Direct adapter cards' single PF per Numa mode.
	Workaround: N/A
	Keywords: Socket-Direct, single PF per Numa, host management, magic packet
	Discovered in Version: 22.32.1010
2836032	**Description:** When using SW steering mlx5dv_dr API to create rules containing encapsulation actions in MLNX_OFED v5.5-1.x.x.x, the user should upgrade firmware to the latest version. Otherwise, the maximum number of encapsulation actions that can be created will be limited to only 16K, and degradation for the rule insertion rate is expected compared to MLNX_OFED v5.4-.x.x.x.x.
	Workaround: N/A
	Keywords: Encapsulation rules insertion rate, firmware upgrade, MLNX_OFED
	Discovered in Version: 22.32.1010
2756866 / 2740651	**Description:** On rare occasions, following fast linkup (toggle link from the NIC side) a few effective errors might be seen in the first 20 seconds.
	Workaround: Perform link maintenance to fix it so additional errors will not be seen afterwards.
	Keywords: Link toggle, effective errors
	Discovered in Version: 22.31.2006
-	**Description:** Downgrading to an older firmware version that does not support the new flash type is not supported. Doing so will result in burning process failure and unknown errors will be received. The errors will be more informative in the next tools' version.
	Workaround: N/A
	Keywords: Burning tools, firmware downgrading, flash type
	Discovered in Version: 22.31.2006
2667681	**Description:** As the Connection Tracking (CT) is not moved to SW state after receiving a TCP RST packet, any packet that matches the windows even after the RST is marked as a valid packets.

Internal Ref.	Issue
	Workaround: N/A
	Keywords: Connection Tracking
	Discovered in Version: 22.31.1014
2607158	**Description:** When using more than 512 MSIX per function, the CPU PCIe Completion Timeout Value needs to be set to a value of 200us or higher.
	Workaround: N/A
	Keywords: Extended MSIX, Asymmetrical MSIX configuration, PF_NUM_PF_MSIX_VALID, PF_NUM_PF_MSIX
	Discovered in Version: 22.31.1014
2577966	**Description:** Fast linkup is not supported when connecting to an Ixia switch.
	Workaround: N/A
	Keywords: Fast linkup
	Discovered in Version: 22.30.1004
2446583	**Description:** On rare occasions, when both network devices are NVIDIA, PAM4 link will raise with several effective errors. These errors will not affect traffic once the link is up.
	Workaround: Clear counters once the link is up
	Keywords: Effective errors
	Discovered in Version: 22.29.2002
2371060	**Description:** When Emulated PCIe Switch is enabled, and the OS does resource reallocation, the OS boot process might halt.
	Workaround: N/A
	Keywords: Emulated PCIe Switch
	Discovered in Version: 22.29.1016
2297201	**Description:** Unable to complete migration when virtio device is in high traffic load (20/20 MPPS) as although vDPA hardware offload solution can support higher speed than the software solution, it needs to enable QEMU auto-converge to complete migration. For further information see: https://wiki.qemu.org/Features/AutoconvergeLiveMigration
	Workaround: Turn auto-converge on by adding `"--auto-converge"`. For example: `virsh migrate --verbose --live --persistent gen-l-vrt-295-005-CentOS-7.4 qemu+ssh://gen-l-vrt-295/system --unsafe --auto-converge`
	Keywords: virtio, vDPA, live migration
	Discovered in Version: 22.29.1016
2384965	**Description:** Eye-opening can cause effective errors on the port.
	Workaround: N/A
	Keywords: Eye-opening
	Discovered in Version: 22.29.1016
2384849 / 2373640	**Description:** Phyless Reset functionality is not supported when updating firmware from v22.28.4000 (and below) to v22.29.1016 and higher.

Internal Ref.	Issue
	Workaround: N/A
	Keywords: Phyless Reset
	Discovered in Version: 22.29.1016
2201468	**Description:** Running multiple resets ("mlxfwreset --sync=1") simultaneously is not functioning properly,
	Workaround: Wait a few seconds until you run "mlxfwreset --sync=0".
	Keywords: mlxfwreset, reset-sync, reset, sync
	Discovered in Version: 22.28.1002
2089277	**Description:** The CRC is being removed despite using the keep_crc flag, and the byte count of the packet are counted without the CRC.
	Workaround: N/A
	Keywords: Decapsulated packets
	Discovered in Version: 22.27.6008
2149437	**Description:** When the SLTP configuration is wrongly set, the “Bad status” explanation will not be presented (only error indication) to the user.
	Workaround: N/A
	Keywords: SLTP configuration
	Discovered in Version: 22.27.6008
1895917	**Description:** On Dual-Port devices, and only after Rx buffer modification, resetting all Physical Functions over one port (through reboot / driver restart / FLR), while there are active Physical Functions over the second port (which caused the Rx buffer changes), will cause the Rx buffer default values to be restored, although not expected by the active Physical Function on the second port.
	Workaround: • Re-apply the changes • Reset the functions from both ports together (driver restart / FLRs / reboot) • Power cycle or reset the firmware
	Keywords: VoQ, Shared Buffer, Rx Bufffer, PFCC, PBMC, PPTB, SBCM, SBPM, SBPR, Rx buffer modifications
	Discovered in Version: 22.27.2008
2120378	**Description:** Phyless Reset is not supported when using PAM4 mode.
	Workaround: N/A
	Keywords: Phyless, PAM4 mode, 200GbE
	Discovered in Version: 22.27.2008
2071210	**Description:** mlxconfig query for the BOOT_INTERRUPT_DIS TLV shows a wrong value in the "current value" field.
	Workaround: Use "next boot" indication to see the right value.
	Keywords: mlxconfig
	Discovered in Version: 22.27.1016
2063038	**Description:** PRBS is not functional when using Wedge switch.

Internal Ref.	Issue
	Workaround: N/A
	Keywords: PRBS
	Discovered in Version: 22.27.1016
1796936	**Description:** 200GbE Optical cables in Auto-Negotiation mode work only in 200GbE speed.
	Workaround: N/A
	Keywords: Cables
	Discovered in Version: 22.27.1016
2038821	**Description:** When running MH TCP, few packets are dropped every second due to no Receive WQEs.
	Workaround: Use 4K RX queue size: `ethtool -G <intf> rx 4096`
	Keywords: Performance, MH, WQE
	Discovered in Version: 22.27.1016
-	**Description:** After programing firmware in LF, power-cycle must be recovered.
	Workaround: N/A
	Keywords: LF
	Discovered in Version: 22.27.1016
2029716	**Description:** Software Reset does not work on ConnectX-6 Dx adapter cards.
	Workaround: N/A
	Keywords: Software Reset
	Discovered in Version: 22.27.1016

PreBoot Drivers (FlexBoot/UEFI)

1 FlexBoot Changes and New Features

For further information, please refer to the FlexBoot Release Notes.

2 UEFI Changes and Major New Features

For further information, please refer to the UEFI Release Notes.

Validated and Supported Cables and Switches

1 Validated and Supported Cables and Modules

1 Cables Lifecycle Legend

Lifecycle Phase	Definition
EOL	End of Life
LTB	Last Time Buy
HVM	GA level
MP	GA level
P-Rel	GA level
Preliminary	Engineering Sample
Prototype	Engineering Sample

2 200GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I548-00H001	MCP1650-H001E30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1m	HVM
HDR	200GE	980-9I549-00H002	MCP1650-H002E26	Nvidia Passive Copper cable,up to 200Gbps, QSFP56 to QSFP56, 2m	HVM
HDR	200GE	980-9I54A-00H00A	MCP1650-H00AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 0.5m	HVM
HDR	200GE	980-9I54B-00H01A	MCP1650-H01AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1.5 m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9I54C-00V001	MCP1650-V001E30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 1m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9I54D-00V002	MCP1650-V002E26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2m, black pulltab, 26AWG	LTB [HVM]
N/A	200GE	980-9I54G-00V003	MCP1650-V003E26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 3m, black pulltab, 26AWG	EOL [HVM]
N/A	200GE	980-9I54H-00V00A	MCP1650-V00AE30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 0.5m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9I54I-00V01A	MCP1650-V01AE30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 1.5m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9I54L-00V02A	MCP1650-V02AE26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2.5m, black pulltab, 26AWG	LTB [HVM]
HDR	200GE	980-9I39E-00H001	MCP7H50-H001R30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1m	HVM
HDR	200GE	980-9I99F-00H002	MCP7H50-H002R26	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 2m	HVM
HDR	200GE	980-9I98G-00H01A	MCP7H50-H01AR30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1.5m	HVM
N/A	200GE	980-9I98H-00V001	MCP7H50-V001R30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 1m, 30AWG	LTB [HVM]
N/A	200GE	980-9I98I-00V002	MCP7H50-V002R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2m, 26AWG	LTB [HVM]
N/A	200GE	980-9I98J-00V003	MCP7H50-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 3m, 26AWG	EOL [HVM]
N/A	200GE	980-9I98K-00V01A	MCP7H50-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 1.5m, 30AWG	EOL [HVM]
N/A	200GE	980-9I98M-00V02A	MCP7H50-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2.5m, 26AWG	LTB [HVM]
N/A	200GE	980-9I98O-00V002	MCP7H60-C002	NVIDIA DAC splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP-DD to 2xQSFP28, colored pulltabs, 2m	EOL [P-Rel]
N/A	200GE	980-9IA3P-00V003	MCP7H60-C003	NVIDIA DAC splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP-DD to 2xQSFP28, colored pulltabs, 3m	EOL [P-Rel]
N/A	200GE	980-9IA3P-00V003-M	MCP7H60-C003-M	NVIDIA DAC splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP-DD to 2xQSFP28, colored pulltabs, 3m	EOL [P-Rel]
N/A	200GE	980-9IA3X-00V001	MCP7H70-V001R30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1m, 30AWG	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9I43Z-00V003	MCP7H70-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4x4SFP56, colored, 3m, 26AWG	EOL [P-Rel]
N/A	200GE	980-9I430-00V01A	MCP7H70-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1.5m, 30AWG	EOL [P-Rel]
N/A	200GE	980-9I431-00V02A	MCP7H70-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to4x50Gb/s, QSFP56 to 4xSFP56, colored, 2.5m, 26AWG	EOL [P-Rel]
HDR	200GE	980-9I46K-00H001	MCP7Y60-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9I46L-00H002	MCP7Y60-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I93M-00H01A	MCP7Y60-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9I93N-00H001	MCP7Y70-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9I93O-00H002	MCP7Y70-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I47P-00H01A	MCP7Y70-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9I457-00H003	MFS1S00-H003V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 3m	MP
HDR	200GE	980-9I45D-00H005	MFS1S00-H005V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 5m	MP
HDR	200GE	980-9I45J-00H010	MFS1S00-H010V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 10m	MP
HDR	N/A	980-9I44L-00H015	MFS1S00-H015-LL	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, low latency, 15m	EOL [P-Rel]
HDR	200GE	980-9I45O-00H015	MFS1S00-H015V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 15m	MP
HDR	N/A	980-9I45R-00H020	MFS1S00-H020E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 20m	EOL [HVM]
HDR	200GE	980-9I45T-00H020	MFS1S00-H020V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 20m	MP
HDR	200GE	980-9I440-00H030	MFS1S00-H030V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I447-00H050	MFS1S00-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	200GE	980-9I44H-00H100	MFS1S00-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	200GE	980-9I44K-00H130	MFS1S00-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP
N/A	200GE	980-9I44P-00V003	MFS1S00-V003E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 3m	LTB [HVM]
N/A	200GE	980-9I45Q-00V005	MFS1S00-V005E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 5m	LTB [HVM]
N/A	200GE	980-9I45R-00V010	MFS1S00-V010E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 10m	LTB [HVM]
N/A	200GE	980-9I44S-00V015	MFS1S00-V015E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 15m	LTB [HVM]
N/A	200GE	980-9I44T-00V020	MFS1S00-V020E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 20m	LTB [HVM]
N/A	200GE	980-9I44U-00V030	MFS1S00-V030E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 30m	LTB [HVM]
N/A	200GE	980-9I44V-00V050	MFS1S00-V050E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 50m	LTB [HVM]
N/A	200GE	980-9I44W-00V100	MFS1S00-V100E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM] [HIBERN/ ATE]
HDR	200GE	980-9I445-00H003	MFS1S50-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM
HDR	200GE	980-9I969-00H005	MFS1S50-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM
HDR	200GE	980-9I96D-00H010	MFS1S50-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	200GE	980-9I96H-00H015	MFS1S50-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	200GE	980-9I96L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	200GE	980-9I96P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
HDR	200GE	980-9I95S-00H040	MFS1S50-H040V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 40m	Prototype
HDR	200GE	980-9I95T-00H050	MFS1S50-H050V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 50m	Prototype
N/A	200GE	980-9I95Q-00V003	MFS1S50-V003E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 3m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9I96R-00V005	MFS1S50-V005E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 5m	EOL [HVM]
N/A	200GE	980-9I96S-00V010	MFS1S50-V010E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 10m	EOL [HVM]
N/A	200GE	980-9I96T-00V015	MFS1S50-V015E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 15m	EOL [HVM]
N/A	200GE	980-9I95U-00V020	MFS1S50-V020E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 20m	EOL [HVM]
N/A	200GE	980-9I95V-00V030	MFS1S50-V030E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 30m	EOL [HVM]
N/A	200GE	980-9I20T-00V000	MMA1T00-VS	NVIDIA transceiver, 200GbE, up to 200Gb/s, QSFP56, MPO, 850nm, SR4, up to 100m	HVM

⚠ HDR links raise with RS_FEC.

3 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I90Z-00C000	FTLC9152RGPL	100Gb/s Transceiver, QSFP28, LC-LC, 850nm SWDM4 up to 100m Over Multi-Mode Fiber	EOL [MP]
N/A	100GE	980-9I62O-00C001	MCP1600-C001	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1m 30AWG	EOL [HVM]
N/A	100GE	980-9I620-00C001	MCP1600-C001E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9I62S-00C001	MCP1600-C001LZ	NVIDIA Passive Copper Cable, ETH 100GbE, 100Gb/s, QSFP, 1m, LSZH, 30AWG	EOL [MP]
N/A	100GE	980-9I621-00C002	MCP1600-C002	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2m 30AWG	EOL [HVM]
N/A	100GE	980-9I62V-00C002	MCP1600-C002E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9I62X-00C003	MCP1600-C003	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3m 28AWG	EOL [HVM]
N/A	100GE	980-9I62Z-00C003	MCP1600-C003E26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I620-00C003	MCP1600-C003E30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-9I622-00C003	MCP1600-C003LZ	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, LSZH, 26AWG	EOL [MP]
N/A	100GE	980-9I625-00C005	MCP1600-C005E26L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 26AWG, CA-L	HVM
N/A	100GE	980-9I627-00C00A	MCP1600-C00AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I629-00C00B	MCP1600-C00BE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.75m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I62B-00C01A	MCP1600-C01A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1.5m 30AWG	EOL [HVM]
N/A	100GE	980-9I62C-00C01A	MCP1600-C01AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9I62G-00C02A	MCP1600-C02A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2.5m 30AWG	EOL [HVM]
N/A	100GE	980-9I62H-00C02A	MCP1600-C02AE26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I62I-00C02A	MCP1600-C02AE30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28,2.5m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-9I62M-00C03A	MCP1600-C03A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3.5m 26AWG	EOL [P-Rel]
EDR	100GE	980-9I62P-00C001	MCP1600-E001	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m 30AWG	EOL [HVM]
EDR	100GE	980-9I62S-00C002	MCP1600-E002	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2m 28AWG	EOL [HVM]
EDR	100GE	980-9I62V-00C003	MCP1600-E003	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m 26AWG	EOL [HVM]
EDR	100GE	980-9I623-00C01A	MCP1600-E01A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1.5m 30AWG	EOL [HVM]
EDR	100GE	980-9I626-00C02A	MCP1600-E02A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2.5m 26AWG	EOL [HVM]
N/A	100GE	980-9I645-00C001	MCP7F00-A001R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 1m, 30AWG	EOL [HVM]
N/A	100GE	980-9I486-00C001	MCP7F00-A001R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48A-00C002	MCP7F00-A002R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 2m, 30AWG	EOL [HVM]
N/A	100GE	980-9I48B-00C002	MCP7F00-A002R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2m, Colored, 30AWG, CA-N	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I48G-00C003	MCP7F00-A003R26N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I48H-00C003	MCP7F00-A003R30L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48J-00C005	MCP7F00-A005R26L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m, Colored, 26AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48M-00C01A	MCP7F00-A01AR	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs,1.5m, 30AWG	EOL [HVM]
N/A	100GE	980-9I48N-00C01A	MCP7F00-A01AR30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1.5m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48S-00C02A	MCP7F00-A02AR26N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I48T-00C02A	MCP7F00-A02AR30L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48U-00C02A	MCP7F00-A02ARLZ	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, LSZH, Colored, 28AWG	EOL [P-Rel]
N/A	100GE	980-9I48X-00C03A	MCP7F00-A03AR26L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3.5m, Colored, 26AWG, CA-L	EOL [HVM]
N/A	100GE	980-9I99G-00C001	MCP7H00-G001R30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I99L-00C002	MCP7H00-G002R30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I99Q-00C003	MCP7H00-G003R26N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 3m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I39R-00C003	MCP7H00-G003R30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I99S-00C004	MCP7H00-G004R26L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 4m, Colored, 26AWG, CA-L	EOL [HVM]
N/A	100GE	980-9I99X-00C01A	MCP7H00-G01AR30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1.5m, Colored, 30AWG, CA-N	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I994-00C02A	MCP7H00-G02AR26N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I395-00C02A	MCP7H00-G02AR30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I13S-00C003	MFA1A00-C003	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 3m	HVM
N/A	100GE	980-9I13X-00C005	MFA1A00-C005	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 5m	HVM
N/A	100GE	980-9I134-00C010	MFA1A00-C010	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 10m	HVM
N/A	100GE	980-9I13A-00C015	MFA1A00-C015	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 15m	HVM
N/A	100GE	980-9I13F-00C020	MFA1A00-C020	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 20m	HVM
N/A	100GE	980-9I13N-00C030	MFA1A00-C030	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 30m	HVM
N/A	100GE	980-9I130-00C050	MFA1A00-C050	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 50m	HVM
N/A	100GE	980-9I13B-00C100	MFA1A00-C100	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]
N/A	100GE	980-9I37H-00C003	MFA7A20-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3m	EOL [HVM]
N/A	100GE	980-9I37I-00C005	MFA7A20-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 5m	EOL [HVM]
N/A	100GE	980-9I40J-00C010	MFA7A20-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 10m	EOL [HVM]
N/A	100GE	980-9I40K-00C020	MFA7A20-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 20m	EOL [HVM]
N/A	100GE	980-9I40N-00C003	MFA7A50-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m	EOL [HVM]
N/A	100GE	980-9I40O-00C005	MFA7A50-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m	EOL [HVM]
N/A	100GE	980-9I49P-00C010	MFA7A50-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 10m	EOL [HVM]
N/A	100GE	980-9I49Q-00C015	MFA7A50-C015	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 15m	EOL [HVM]
N/A	100GE	980-9I49R-00C020	MFA7A50-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 20m	EOL [HVM]
N/A	100GE	980-9I49S-00C030	MFA7A50-C030	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 30m	EOL [HVM]
N/A	100GE	980-9I149-00CS00	MMA1B00-C100D	NVIDIA transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I17P-00CR00	MMA1L10-CR	NVIDIA optical transceiver, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, LR4 up to 10km	HVM
N/A	100GE	980-9I17Q-00CM00	MMA1L30-CM	NVIDIA optical module, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, CWDM4, up to 2km	MP
N/A	100GE	980-9I16X-00C000	MMS1C10-CM	NVIDIA active optical module, 100Gb/s, QSFP, MPO, 1310nm, PSM4, up to 500m	EOL [MP]
N/A	100GE	980-9I042-00C000	MMS1V70-CM	NVIDIA transceiver, 100GbE, QSFP28, LC-LC, 1310nm, DR1	P-Rel
NA	100GE	980-9I53X-00C000	SPQ-CE-ER-CDFL-M	40km 100G QSFP28 ER Optical Transceiver	P-Rel

4 50GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	50GE	980-9I79O-00G000	MAM1Q00A-QSA56	NVIDIA cable module, ETH 50GbE, 200Gb/s to 50Gb/s, QSFP56 to SFP56	EOL [POR]
N/A	50GE	980-9I873-00G001	MCP2M50-G001E30	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 1m, black pulltab, 30AWG	EOL [P-Rel]
N/A	50GE	980-9I874-00G002	MCP2M50-G002E26	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 2m, black pulltab, 26AWG	EOL [P-Rel]
N/A	50GE	980-9I875-00G003	MCP2M50-G003E26	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 3m, black pulltab, 26AWG	EOL [P-Rel]
N/A	50GE	980-9I876-00G00A	MCP2M50-G00AE30	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 0.5m, black pulltab, 30AWG	EOL [P-Rel]
N/A	50GE	980-9I877-00G01A	MCP2M50-G01AE30	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 1.5m, black pulltab, 30AWG	EOL [P-Rel]
N/A	50GE	980-9I878-00G02A	MCP2M50-G02AE26	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 2.5m, black pulltab, 26AWG	EOL [P-Rel]

5 FDR10 / 40GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
FDR10	40GE	980-9I66V-00B005	MC2206128-005	NVIDIA passive copper cable, VPI, up to 40Gb/s, QSFP, 5m	EOS
FDR10	40GE	980-9I66W-00B001	MC2206130-001	NVIDIA passive copper cable, VPI, up to 40Gb/s, QSFP, 1m	EOS
FDR10	40GE	980-9I66X-00B002	MC2206130-002	NVIDIA passive copper cable, VPI, up to 40Gb/s, QSFP, 2m	EOS

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
FDR10	40GE	980-9I66Y-00B003	MC2206130-003	NVIDIA passive copper cable, VPI, up to 40Gb/s, QSFP, 3m	EOS
FDR10	40GE	980-9I66Z-00B00A	MC2206130-00A	NVIDIA passive copper cable, VPI, up to 40Gb/s, QSFP, 0.5m	EOS
FDR10	N/A	980-9I140-00T003	MC2206310-003	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 3m	EOL [HVM]
FDR10	N/A	980-9I141-00T005	MC2206310-005	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 5m	EOL [HVM]
FDR10	N/A	980-9I142-00T010	MC2206310-010	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 10m	EOL [HVM]
FDR10	N/A	980-9I143-00T015	MC2206310-015	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 15m	EOL [HVM]
FDR10	N/A	980-9I144-00T020	MC2206310-020	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 20m	EOL [HVM]
FDR10	N/A	980-9I145-00T030	MC2206310-030	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 30m	EOL [HVM]
FDR10	N/A	980-9I147-00T050	MC2206310-050	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 50m	EOL [HVM]
FDR10	N/A	980-9I148-00T100	MC2206310-100	NVIDIA active fiber cable, IB QDR/FDR10, 40Gb/s, QSFP, 100m	EOL [HVM]
N/A	40GE	980-9I666-00B004	MC2210126-004	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 4m	EOL [HVM]
N/A	40GE	980-9I667-00B005	MC2210126-005	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 5m	EOL [HVM]
N/A	40GE	980-9I668-00B003	MC2210128-003	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m	EOL [HVM]
N/A	40GE	980-9I66A-00B001	MC2210130-001	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m	EOL [HVM]
N/A	40GE	980-9I66C-00B002	MC2210130-002	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m	EOL [HVM]
N/A	40GE	980-9I14D-00B003	MC2210310-003	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 3m	EOL [MP]
N/A	40GE	980-9I14E-00B005	MC2210310-005	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 5m	EOL [MP]
N/A	40GE	980-9I14F-00B010	MC2210310-010	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 10m	EOL [MP]
N/A	40GE	980-9I14G-00B015	MC2210310-015	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 15m	EOL [MP]
N/A	40GE	980-9I14H-00B020	MC2210310-020	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 20m	EOL [MP]
N/A	40GE	980-9I14I-00B030	MC2210310-030	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 30m	EOL [MP]
N/A	40GE	980-9I14J-00B050	MC2210310-050	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 50m	EOL [MP]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	40GE	980-9I14K-00B100	MC2210310-100	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 100m	EOL [MP]
FDR10	40GE	980-9I170-00BM00	MC2210411-SR4E	NVIDIA optical module, 40Gb/s, QSFP, MPO, 850nm, up to 300m	EOL [HVM]
FDR10	N/A	980-9I21O-00TR00	MC2210511-LR4	NVIDIA optical module, 40Gb/s, QSFP, LC-LC, 1310nm, LR4 up to 10km	EOL [MP]
N/A	40GE	980-9I64V-00B005	MC2609125-005	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 5m	EOL [P-Rel]
N/A	40GE	980-9I64W-00B001	MC2609130-001	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1m	EOL [HVM]
N/A	40GE	980-9I64Y-00B003	MC2609130-003	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 3m	EOL [HVM]
N/A	40GE	980-9I72J-00B005	MC6709309-005	NVIDIA passive fiber hybrid cable, MPO to 8xLC, 5m	EOL [HVM]
N/A	40GE	980-9I72K-00B010	MC6709309-010	NVIDIA passive fiber hybrid cable, MPO to 8xLC, 10m	EOL [HVM]
N/A	40GE	980-9I72L-00B020	MC6709309-020	NVIDIA passive fiber hybrid cable, MPO to 8xLC, 20m	EOL [HVM]
N/A	40GE	980-9I72M-00B030	MC6709309-030	NVIDIA passive fiber hybrid cable, MPO to 8xLC, 30m	EOL [HVM]
N/A	40GE	980-9I66U-00B001	MCP1700-B001E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m, Black Pulltab	EOL [HVM]
N/A	40GE	980-9I66V-00B002	MCP1700-B002E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m, Black Pulltab	EOL [HVM]
N/A	40GE	980-9I66W-00B003	MCP1700-B003E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m, Black Pulltab	EOL [HVM]
N/A	40GE	980-9I66X-00B01A	MCP1700-B01AE	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1.5m, Black Pulltab	EOL [MP]
N/A	40GE	980-9I66Y-00B02A	MCP1700-B02AE	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2.5m, Black Pulltab	EOL [MP]
N/A	40GE	980-9I426-00BM00	MMA1B00-B150D	NVIDIA transceiver, 40GbE, QSFP+, MPO, 850nm, SR4, up to 150m, DDMI	EOL [HVM]

6 25GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NA	25GE	980-9I78I-00A000	MAM1Q00A-QSA28	Mellanox cable module, ETH 25GbE, 100Gb/s to 25Gb/s, QSFP28 to SFP28	LTB [HVM]
NA	25GE	980-9I63L-00A001	MCP2M00-A001E30N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, Black, 30AWG, CA-N	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NA	25GE	980-9I63O-00A002	MCP2M00-A002E30N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63R-00A003	MCP2M00-A003E26N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63S-00A003	MCP2M00-A003E30L	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 30AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63T-00A004	MCP2M00-A004E26L	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 4m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63V-00A005	MCP2M00-A005E26L	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 5m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63X-00A00A	MCP2M00-A00AE30N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63Z-00A01A	MCP2M00-A01AE30N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I631-00A02A	MCP2M00-A02AE26N	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
NA	25GE	980-9I632-00A02A	MCP2M00-A02AE30L	Mellanox Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 30AWG, CA-L	EOL [HVM]
NA	25GE	980-9IA1T-00A003	MFA2P10-A003	Mellanox active optical cable 25GbE, SFP28, 3m	EOL [HVM]
NA	25GE	980-9I53W-00A005	MFA2P10-A005	Mellanox active optical cable 25GbE, SFP28, 5m	EOL [HVM]
NA	25GE	980-9I53Z-00A007	MFA2P10-A007	Mellanox active optical cable 25GbE, SFP28, 7m	EOL [HVM]
NA	25GE	980-9I532-00A010	MFA2P10-A010	Mellanox active optical cable 25GbE, SFP28, 10m	EOL [HVM]
NA	25GE	980-9I535-00A015	MFA2P10-A015	Mellanox active optical cable 25GbE, SFP28, 15m	EOL [HVM]
NA	25GE	980-9I536-00A020	MFA2P10-A020	Mellanox active optical cable 25GbE, SFP28, 20m	EOL [HVM]
NA	25GE	980-9I539-00A030	MFA2P10-A030	Mellanox active optical cable 25GbE, SFP28, 30m	EOL [HVM]
NA	25GE	980-9I53A-00A050	MFA2P10-A050	Mellanox active optical cable 25GbE, SFP28, 50m	EOL [HVM]
NA	25GE	980-9I094-00AR00	MMA2L20-AR	Mellanox optical transceiver, 25GbE, 25Gb/s, SFP28, LC-LC, 1310nm, LR up to 10km	EOL [MP]
NA	25GE	980-9I595-00AM00	MMA2P00-AS	Mellanox transceiver, 25GbE, SFP28, LC-LC, 850nm, SR	HVM
NA	25GE	980-9I34B-00AS00	MMA2P00-AS-SP	Mellanox transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 100m, single package	EOL [HVM]

7 10GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NA	10GE	980-9I71G-00J000	MAM1Q00A-QSA	Mellanox cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	LTB [HVM]
NA	10GE	980-9I65P-00J005	MC2309124-005	Mellanox passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
NA	10GE	980-9I65Q-00J007	MC2309124-007	Mellanox passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
NA	10GE	980-9I65R-00J001	MC2309130-001	Mellanox passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
NA	10GE	980-9I65S-00J002	MC2309130-002	Mellanox passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
NA	10GE	980-9I65T-00J003	MC2309130-003	Mellanox passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
NA	10GE	980-9I682-00J004	MC3309124-004	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
NA	10GE	980-9I683-00J005	MC3309124-005	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
NA	10GE	980-9I684-00J006	MC3309124-006	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
NA	10GE	980-9I685-00J007	MC3309124-007	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
NA	10GE	980-9I686-00J001	MC3309130-001	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
NA	10GE	980-9I688-00J002	MC3309130-002	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
NA	10GE	980-9I68B-00J003	MC3309130-003	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
NA	10GE	980-9I68F-00J00A	MC3309130-00A	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
NA	10GE	980-9I68G-00J01A	MC3309130-0A1	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
NA	10GE	980-9I68H-00J02A	MC3309130-0A2	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
NA	10GE	980-9I68C-00J003	MCP2100-X003B	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68F-00J002	MCP2104-X002B	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68G-00J003	MCP2104-X003B	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NA	10GE	980-9I68I-00J02A	MCP2104-X02AB	Mellanox passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	MFM1T02A-LR-F	MFM1T02A-LR-F	Mellanox optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 1310nm, LR up to 10km	HVM
NA	10GE	MFM1T02A-SR-F	MFM1T02A-SR-F	Mellanox optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM
NA	10GE	MFM1T02A-SR-P	MFM1T02A-SR-P	Mellanox optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM

8 1GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	1GE	980-9I270-00IM00	MC3208011-SX	NVIDIA Optical module, ETH 1GbE, 1Gb/s, SFP, LC-LC, SX 850nm, up to 500m	EOL [P-Rel]
N/A	1GE	980-9I251-00IS00	MC3208411-T	NVIDIA module, ETH 1GbE, 1Gb/s, SFP, Base-T, up to 100m	HVM

9 Supported 3rd Party Cables and Modules



Third-party devices that have not been qualified by NVIDIA may be used; however, please be aware that no performance guarantees are provided. Any issues that arise will require initiating a new feature request process for third-party support.

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP28	100GE	FTLC1151RDPL	TRANSCIEVER 100GBE QSFP LR4
QSFP	100GE	AFBR-89CDDZ	TRANSCIEVER 100GBE QSFP SR4
QSFP	100GE	10137498-2010LF	PASSIVE COPPER CABLE ETH 100GBE QSFP 1M
QSFP	100GE	10137498-2005LF	HPE 100G 2M COPPER CABLE
QSFP	100GE	10137499-4050LF	PASSIVE COPPER CABLE ETH 100GBE QSFP 5M
QSFP		FTL414QB2N-E5	TRANSCIEVER FDR QSFP SR4
QSFP	100GE	CAB-Q-Q-100G-3M	PASSIVE COPPER CABLE ETH 100GBE QSFP 3M

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP	10GE	FTLX8570D3BCL-C2	TRANSCIEVER 10GBE SFP SR
QSFP	40GE	L45593-D118-B50	PASSIVE COPPER CABLE ETH 40GBE QSFP 3M
QSFP	100GE	FCBN425QE1C10-C1	AOC 100GBE QSFP 1M
QSFP	40GE	QSFP-H40G-CU1M	PASSIVE COPPER CABLE ETH 40GBE QSFP 1M
QSFP	40GE	QSFP-40G-SR-BD	TRANSCIEVER 40GBE QSFP BI DIRECTIONAL (BIDIR)
QSFP	100GE	SO-QSFP28-LR4	TRANSCIEVER 100GBE QSFP LR4
QSFP28	100GE	QSFP-40/100-SRBD	TRANSCIEVER 100GBE QSFP BI DIRECTIONAL (BIDIR)
QSFP28	100GE	FTLC9152RGPL	TRANSCEIVER 100GBE QSFP SWDM4
QSFP	10GE	QSFP-4SFP10G-CU5M	QSFP-4SFP10G-CU5M
QSFP28	100GE	TR-FC13L-N00	100G QSFP28 OPTICAL TRANSCEIVERS QSFP28 LR4
QSFP	40GE	AFBR-7QER15Z-CS1	CISCO 40GE 15M AOC
QSFP28	10GE---100 GE	FCBN425QE1C30-C1	CISCO FINISAR CABLE ASSY QSFP28 M-M 30M
QSFP	40GE	QAOC-40G4F1A25-C	CISCO-DELTA 25M 40GBE AOC
QSFP	40GE	QSFP-H40G-CU1M	QSFP-H40G-CU1M
QSFP	25GE	SFP-H25G-CU2M	15M (49FT) AVAGO AFBR-7QER15Z COMPATIBLE 40G QSFP+ ACTIVE OPTICAL CABLE
QSFP28	100GE	NDAAFJ-C102	CISCO AMPHENOL SF-NDAAFJ100G-005M
QSFP28	100GE	TR-VC13T-N00	INNOLIGHT 100G OPTICAL TRANSCEIVER QSFP28 PSM4 TR-VC13T-N00,UP TO 2KM TRANSMISSI
QSFP	100GE	FCBR425QF1C01	CBL ASSY 4X25G ETH QSFP 1M
QSFP28	100GE	FTLC9551REPM	100M PARALLEL MMF 100G QSFP28 OPTICAL TRANSCEIVER
QSFP28	100GE	RTXM420-550	MPO TYPE 210 M OM3 300 M OM4
QSFP28	100GE	RTXM420-551	100M PARALLEL MMF 100G QSFP28 OPTICAL TRANSCEIVER
QSFP28	100GE	FTLC9551REPM-H1	QSFP28 ACTIVE OPTICAL CABLE HIGH-SPEED INPUT-OUTPUT CONNECTORS 100G ETHERNET OFNP 1 METER
QSFP28	100GE	FOQQD33P00001	QSFP28 CWDM4, SINGLE RATE PULL TAB 100GBE 2KM OPTICAL TRANSCEIVER
QSFP	100GE	LQ210CR-CPA2	QSFP28 CWDM4, SINGLE RATE PULL TAB 100GBE 2KM OPTICAL TRANSCEIVER
QSFP	40GE	FTL410QD2C-HZ	40BASE-SR4/10GBASE-SR 300M QSFP+ GEN2 OPTICAL TRANSCEIVER MODULE
QSFP28	100GE	FCBN425QE1C01	100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP28	100GE	AFBR-89CDDZ-JU1	100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE
QSFP	40GE	QSFP-40G-SRBD	ARISTA NETWORKS QSFP-40G-SRBD COMPATIBLE 40GBASE-SR BI-DIRECTIONAL QSFP+ OPTICAL TRANSCEIVER MODULE FOR DUPLEX MMF
QSFP28	100GE	AFBR-89CEDZ	100GBE QSFP28 PLUGGABLE, PARALLEL FIBER-OPTICS TRANSCEIVER MODULE, EXTENDED REACH 300M
QSFP28	100GE	FTLC9555REPM3-E6	FIBER OPTIC TRANSMITTERS, RECEIVERS, TRANSCEIVERS XCVR,QSFP28,100M,100GBASE-SR4
QSFP	100GE	FCBR425QF1C03	4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
	100GE	FOQQD33P00009	CABLE ASSEMBLY, QSFP TO QSFP, OM 3 PLENUM, ACTIVE OPTICAL, 100GBPS, 2M
	100GE	FOQQD33P00010	CABLE ASSEMBLY, QSFP TO QSFP, OM 3 PLENUM, ACTIVE OPTICAL, 100GBPS, 3M
QSFP28	100GE	NDAAFF-C403	CABLE ASSEMBLY UL 20276 3M 30AWG QSFP+ TO QSFP+ 38 TO 38 POS M-M BAG
QSFP28	100GE	NDAAFJ-M203	QSFP28GB 26AWG, 3METER PASSIVE
QSFP28	100GE	NDARHF-M206	QSFP28 TO 2X QSFP28 COPPER SPLITTER CABLE ASSEMBLIES 100G/200G, HIGH SPEED INPUT OUTPUT CONNECTORS, QSFP28GB 30AWG, 2.5METER PASSIVE.
QSFP28	100GE	AQPA9N09ADLN0817	ACTIVE OPTICAL CABLE 100G QSFP28
QSFP28	100GE	AQPA9N12ADLN0778	QSFP28 AOC 100G MMF 850NM TRANSCEIVER
QSFP28	100GE	AQPA9N35ADLN0817	ACTIVE OPTICAL CABLE 100G QSFP28
QSFP28	100GE	AQPMANQ4EDMA0784	QSFP28 100G SMF 500M TRANSCEIVER
QSFP28	100GE	AQPMANQ4EDMA0871	QSFP28 100G SMF 500M TRANSCEIVER
QSFP+	40GE	AFBR-79EBPZ-HP8	40G BIDIRECTIONAL MMF QSFP+ TRANSCEIVER MODULE
QSFP28	100GE	AFBR-89CDDZ-CS1	AVAGO AFBR-89CDDZ COMPATIBLE 100GBASE-SR4 QSFP28 850NM
QSFP+	40GE	NDCCGJ-C402	15M (49FT) AVAGO AFBR-7QER15Z COMPATIBLE 40G QSFP+ ACTIVE OPTICAL CABLE
QSFP56	100GE	DHZZjj-KCCC-030	200G QSFP56 TO 2X100G QSFP56 DIRECT ATTACH CABLE
QSFP28	40GE	L45593-D118-D30	PASSIVE COPPER CABLE ETH 40GBE QSFP 3M
QSFP28	100GE	SFBR-89BDDZ-CS2	100G AOM BIDI
QSFP28	100GE	SFBR-89BDDZ-CS4	100G AOM BIDI
QSFP28	100GE	SQF1002L4LNC101P	CISCO-SUMITOMO 100GBE AOM

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP28	100GE	ET7402-SR4	100G QSFP28 OPTICAL TRANSCEIVER
QSFP28	100GE	FCBN425QE2C05	4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
QSFP28	100GE	FCBR425QE1C10-HP	FIBRE OPTIC CABLE ASSEMBLIES 4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
QSFP+	40GE	DQF8501-4C01	QSFP+ SR4 4X10.3125GB/S QSFP+ SR4 ACTIVE OPTICAL CABLE
QSFP28	100GE	DQF8503-4C01	4X25.78GB/S QSFP28 ACTIVE OPTICAL CABLE
QSFP28	100GE	DQF8503-4C05	4X25.78GB/S QSFP28 ACTIVE OPTICAL CABLE
QSFP28	100GE	10137628-4050LF	HPE 100GBE QSFP28 DAC 5M CABLE - 100GB/S DIRECT ATTACH COPPER QUAD
QSFP56	200GE	R5Z83A	200GB QSFP56 MPO SR4 100M
QSFP28	100GE	RTXM420-005	QSFP28 100G
QSFP-DD	400GE	C-DQ8FNM005-N00	MELLANOX SELECT 400GBE QSFP-DD AOC 5M
QSFP-DD	400GE	C-DQ8FNM050-N00	MELLANOX SELECT 400GBE QSFP-DD AOC 5M
QSFP28	100GE	TF-FC010-N00	100G OPTICAL TRANSCEIVER QSFP28 PARALLEL ACTIVE OPTICAL CABLE
QSFP+	40GE	606770005	INTEL QSFP 40GBASE CR4
QSFP-DD	400GE	QDD-400G-SR8	400GBASE-SR8 QSFP-DD PAM4 850NM 100M DOM MTP/MPO-16 MMF OPTICAL TRANSCEIVER MODULE
QSFP-DD	400GE	DMQ8811A-EC05	[MSFT] QSFP-DD AOC 100M
QSFP28	100GE	DQF8503-4C23	QSFP28 AOCS 7M
QSFP28	100GE	TR-ZC13T-N00	QSFP28 FR1 (PAM4)
Q22Q	100GE	1002971151	ZQSFP+-TO-ZQSFP+ CABLE ASSEMBLY, 30 AWG, 1.50M LENGTH
Q22Q	100GE	1003461071	ZQSFP+TO 2ZQSFP+50G CBL ASSY 0.7
Q22Q	100GE	1003461076	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS
Q22Q	100GE	1003461101	ZQSFP+ TO 2ZQSFP+ 50G CBL
Q22Q	100GE	1003461106	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS, LOW-SMOKE ZERO-HALOGEN CABLE, 30 AWG, 1.0M LENGTH
Q22Q	100GE	1003463156	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS, LOW-SMOKE ZERO-HALOGEN CABLE, 26 AWG, 1.50M LENGTH
Q22Q	100GE	1003463301	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS, 26 AWG, 3.0M LENGTH
QSFP28	100GE	1AT-3Q4M01XX-12A	QSFP28 100G ACTIVE CABLE/MODULE
QSFP28	100GE	1AT-3Q3Q9211-01A	100G QSFP28 CWDM4 PN: 1AT-3Q3Q9211-01A TRANSCEIVER MODULE

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP28	100GE	ATRQ-A007	QSFP28 AOCS 7M
QSFP28	100GE	DQF8503-4C07	[MSFT] 7M 100GB/S QSFP28 ACTIVE OPTICAL CABLES AOC DQF8503-4C10 100GBE
QSFP28	100GE	DQF8503-4C10	[MSFT] 10M 100GB/S QSFP28 ACTIVE OPTICAL CABLES AOC DQF8503-4C10 100GBE
QSFP28	100GE	FCBN425QE2C07	100GBASE-AOC QSFP28 TO QSFP28 DIRECT ATTACH CABLE, 7M
QSFP28	100GE	FCBN425QE2C10	100GBASE-AOC QSFP28 TO QSFP28 DIRECT ATTACH CABLE, 10M
QSFP+	40GE	FTL4C1QE1C	40G LR4 QSFP+, UP TO 10KM SINGLE MODE TRANSCEIVER
QSFP28	200GE	L6WQF102-SD-R	3M DAC, 200G TO 2X100G
QSFP56	100GE	NDARXJ-B303	3M DAC, 200G TO 2X100G
QSFP28	100GE	RTXM420-010	QSFP28 AOCS 10M
QSFP28	100GE	SPQCEERCDFLM	100G ER QSFP28, UP TO 40KM SINGLE MODE TRANSCEIVER
QSFP28	100GE	SPQCELRCDFB	100G LR4 QSFP28, UP TO 10KM SINGLE MODE TRANSCEIVER
QSFP28	100GE	QSFP-SR4-AJ	
QSFP28	100GE	EOLQ-131HG-O-026	100G FR1
QSFP56	200GE	MFS1S00-H030V	200G AOC
QSFP56	200GE	MFS1S00-H003V	200G AOC
QSFP28	100GE	SPTSLP3SLCDF	100G DR1
QSFP56	200GE	R5Z84A	200GB QSFP56 LC CWDM4 FR4 XCVR
QSFP56	200GE	R5Z84A	200GB QSFP56 LC CWDM4 FR4 XCVR
QSFP28	100GE	QSFP28-FR-C	QSFP28, FR, 1310NM, 100G, 2KM, SMF, LC, DDM
QSFP28	100GE	QSFP28-SR4-AJ	QSFP28, SR4, 850NM, 100G, 100M, MMF, MPO12, C-TEMP
QSFP28	100GE	SPTSBP4LLCDF	QSFP28 100G LR4
QSFP28	100GE	JNP-QSFP-100G-LR	[COREWEAVE] 100GBASE LR4 QSFP28 TRANSCEIVER, LC, 10KM OVER SMF, JNP-QSFP-100G-LR4-LU
QSFP+	40GE	JNP-QSFP-40G-LR4	[COREWEAVE] 40GBASE-LR4 QSFP+ 1310NM 10KM LC OVER SMF, JNP-QSFP-40G-LR4-LU
QSFP28	100GE	QSFP-100G-CWDM4	[COREWEAVE] 100GBASE CWDM4 QSFP TRANSCEIVER, LC, 2KM OVER SMF, JNP-QSFP-100G-CWDM4-LU
QSFP28	100GE	QSFP-100G-SR4-I	[COREWEAVE] 100GBASE-SR4 QSFP, MPO, 100M OVER OM4 MMF INDUSTRIAL TEMPERATURE RANGE, QSFP-100G-SR4-I-LU
QSFP28	100GE	QSFP-100G-SR4-LU	[COREWEAVE] 100GBASE-SR4 QSFP, QSFP-100G-SR4-LU
QSFP28	100GE	SPTSBP4LLCDF	QSFP28 100G LR4
QSFP-DD	400GE	SPTSHP2PMCBE	400GBASE-DR4 , 500M
QSFP28	100GE	QSFP-100G-DR-LU	[COREWEAVE] 100GBASE DR QSFP TRANSCEIVER, LC, 500M OVER SMF, QSFP-100G-DR-S-LU

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP-DD to 2xQSFP56	200GE	RTXM500-905	400G-2X200G SPLIT 5M AOC CABLES (400G QSFP-DD BREAKING OUT TO 2X 200G QSFP56)
QSFP-DD	200GE	DEF8504-2C06-MB3	QSFP-DD ACTIVE OPTICAL CABLE (AOC) TO 2XQSFP-28 ACTIVE OPTICAL CABLE BREAK-OUT
QSFP-DD to 4xQSFP56	100GE	NDYSV2-0003	400G TO 4X 100G QSFP DD - 4X QSFP56 CABLE ASSEMBLY, LINEAR ACTIVE, 30AWG, 3M, 56G / LANE, JACKET
QSFP-DD to 4xQSFP56	100GE	NDYSV2-0008	400G TO 4X 100G QSFP DD - 4X QSFP CABLE ASSEMBLY, LINEAR ACTIVE, 30AWG, 2.5M, 56G / LANE, JACKET
QSFP-DD to 2xQSFP56	200GE	NDYRYH-0003	400GGTO 2X200FG QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 56G / LANE, JACKET
QSFP-DD to 2xQSFP56	200GE	DME8811-EC07	400G-2X200G SPLIT 7M AOC CABLES (400G QSFP-DD BREAKING OUT TO 2X 200G QSFP56
QSFP-DD to 4xQSFP56	100GE	NDYSYF-0001	400G TO 4X100G QSFP DD - 4X QSFP56 CABLE ASSEMBLY, PASSIVE, 30AWG, 1M
QSFP-DD to 2xQSFP56	200GE	NDYRYF-0001	400G TO 2X200G, QSFP DD - 2X QSFP56 CABLE ASSEMBLY, PASSIVE, 30AWG, 1M
QSFP-DD to 2xQSFP56	200GE	NDYRYH-0002	400G TO 2X200G, QSFP DD - 2X QSFP56 CABLE ASSEMBLY, PASSIVE, 27AWG, 2M
QSFP28	100GE	TR-ZC13H-NML	100G QSFP28 DR1 TRANSCEIVER
QSFP28	100GE	FCBN425QE2C02	HPE (FINISAR PN FCBN425QE2C02) 100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE, 2M
QSFP28	100GE	S2T38A	HPE (FINISAR PN FCBN425QN2C05) 100G QSFP28 5M E-TEMP AOC
QSFP28	100GE	DQF8503-4C03	QSFP28 100G ACTIVE OPTICAL CABLE (AOC),3M, MM
QSFP28	100GE	FCBN425QF1C01	QSFP28 100G ACTIVE OPTICAL CABLE (AOC), 1M, MM
QSFP28	100GE	FCBN425QE2C30	HPE (FINISAR PN FCBN425QE2C30) 100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE, 30M
QSFP-DD to 2xQSFP56	200GE	NDYRFH-0003	AMPHENOL QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 28G / LANE, JACKET
QSFP28	100GE	NDAAFF-0003	AMPHENOL 100G, QSFP28 CABLE ASSEMBLY, PASSIVE, 30AWG, 3M, 28G / LANE, JACKET
QSFP-DD to 2xQSFP56	200GE	R8M49A	HPE 400GBE TO 2X200G QSFP-DD TO 2XQSFP56 5M ACTIVE OPTICAL CABLE
QSFP-DD to 2xQSFP56	200GE	R8M50A	HPE 400GBE TO 2X200G, QSFP-DD TO 2XQSFP56 15M ACTIVE OPTICAL CABLE

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP56	200GE	NDAAXG-0002	AMPHENOL 200G QSFP CABLE ASSEMBLY, PASSIVE, 28AWG, 2M, 56G / LANE, JACKET
QSFP-DD to 2xQSFP56	200GE	NDYRYF-0006	AMPHENOL 400G TO 2X200G QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 30AWG, 0.5M, 56G / LANE, JACKET
QSFP-DD to 4xQSFP28	100GE	NDYSYH-0003	AMPHENOL 400G TO 4X100G, QSFP DD - 4X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 56G / LANE, JACKET
QSFP-DD to 2xQSFP56	400GE	AAQD2QP2400C003	AOI 400G BREAKOUT TO 2X200G BREAKOUT AOC
QSFP56	400GE	ATRF-C020	HGTECH 200G QSFP56 AOC 20M
DSFP	50GE	ATRP-B007	HGTECH 50G DSFP AOC 7M
DSFP	50GE	ATRP-B010	HGTECH 50G DSFP AOC 10M
QSFP28	100GE	ATRQ-A010	HGTECH 100G QSFP28 AOC 10M
QSFP+	100GE	CAB-Q-Q-100GbE-3M	ARISTA 100G QSFP+ DAC 3M
QSFP-DD to 2xQSFP56	400GE	C-DQF8FNMxxx-N00	INNOLIGHT 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC
DSFP	50GE	C-PD2FNM010-N00	INNOLIGHT 50G DSFP AOCS 10M
DSFP	50GE	DMM8211-DC07	HISENSE 50G DSFP AOC 7M
DSFP	50GE	DMM8211-DC10	HISENSE 50G DSFP AOC 10M
QSFP28	100GE	FCBN425QE1C30-C1	QUADWIRE 100GBE QSFP28 30M AOC
QSFP-DD to 2xQSFP56	400GE	FCBN950QE1C05	FINISAR 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 5M
QSFP-DD to 2xQSFP56	400GE	FCBN950QE1C20	FINISAR 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 20M
QSFP-DD to 2xQSFP56	400GE	QDD-2Q200-CU3M	CISCO 400G QSFP-DD TO 2X200G BREAKOUT DAC 3M
QSFP-DD to 4xQSFP56	400GE	QDD-4ZQ100-CU1M	CISCO 400G QSFP-DD TO 4X100G BREAKOUT DAC 1M
QSFP28	100GE	QSFP-100G-AOC30M	CISCO 100G QSFP28 AOC 30M
QSFP56	200GE	QSFP-200-CU3M	CISCO 200G QSFP56 DAC 3M
QSFP28	100GE	QSFP28-LR4-AJ	CISCO 100G LR4 QSFP28 MODULE
QSFP28	100GE	RTXM420-007	ACCELINK 100G QSFP28 AOCS 7M

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP56	200GE	RTXM500-301-F1	ACCELINK 200G QSFP56 SR4
QSFP-DD to 2xQSFP56	400GE	RTXM500-910	ACCELINK 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 10M
DSFP	50GE	RTXM520-107	ACCELINK 50G DSFP AOCS 7M
DSFP	50GE	RTXM520-110	ACCELINK 50G DSFP AOCS 10M
QSFP56	200GE	T-FX4FNS-N00	INNOLIGHT 200G QSFP56 SR4 MODULE
QSFP28	100GE	FTLC9555REPM3-HD	FINISAR 100G SR4 MODULE
QSFP56	200GE	QSFP-200-CU3M	200G QSFP56 TO QSFP56 PASSIVE COPPER CABLE, 3M
DSFP	100GE	ATRP-Bxxx	HGTECH 100G DSFP AOC
DSFP	100GE	RTXM520-1xx	WTD 100G DSFP AOC
DSFP	100GE	DMM8211-DCxx	HISENSE 100G DSFP AOC
Q24Q	400GE	AOC-Q56DD-4Q28 (0FXDJY)	ARISTA 4X100G QSFP28 AOC BREAKOUT
QSFP56	200GE	C-FX4FNMxxx-N00	INNOLIGHT 200G QSFP56 AOC
QSFP-DD to 4xQSFP28	400GE	P56DQ2312-SD-R	LUXSHARE 400G QSFP-DD TO 4X100G QSFP28 AOC
QSFP28	100GE	FTLC9558REPM-H1	COHERENT 100G SR4 MODULE
QSFP-DD to 4xQSFP28	400GE	P56DQ2312-SD-R	LUXSHARE 400G Q-DD TO 4X100G QSFP28 AOC
QSFP28	100GE	FTLC9558REPM-OR	[OCI] FINISAR 100M PARALLEL MMF 4X25G OR 100G QSFP28 OPTICAL TRANSCEIVER (REQUIRES OSFP TO QSFP-DD ADAPTER)
QSFP-DD to 2xQSFP56	400GE	C-DQF8FNM005-N00	INNOLIGHT 400G QSFP-DD TO 2X200G AOC
DSFP to QSFP56	100GE	RTXM520-2xx (Rev: 0C)	WTD 100G DSFP TO QSFP56
DSFP to QSFP56	100GE	DMM8211X-DCxx(Rev: 12)	HISENSE 100G DSFP TO QSFP56
QSFP-DD to 2xQSFP56	400GE	RTXM500-9xx (Rev: C0)	WTD 400G QSFP-DD TO 2X200G QSFP56 AOC
QSFP56 to 2xQSFP28	200GE	TF-GCB0xx-Dy212	CREALIGHT 200G QSFP56 TO 2X100G QSFP28 AOC

2 Tested Switches

1 400GbE Switches

Speed	Switch Silicon	OPN # / Name	Description	Vendor
400GbE	Spectrum-3	MSN4410	24 QSFP-DD28 and 8 QSFP-DD ports, 400GbE 1U Open Ethernet Switch with Onyx	NVIDIA
400GbE	Spectrum-3	MSN4700	32 QSFPDD ports, 400GbE 1U Open Ethernet Switch with Onyx	NVIDIA
400GbE	N/A	Wedge 400	Wedge 400-48X 400GbE Data Center Switch	Facebook
400GbE	N/A	Cisco Nexus 3432D-S	Cisco Nexus 3432D-S, 32 fixed 400-Gigabit Ethernet QSFP-DD ports with backward compatibility for QSFP56, QSFP28, and QSFP+	Cisco

2 200GbE Switches

Speed	Switch Silicon	OPN # / Name	Description	Vendor
200GbE	Spectrum-3	MSN4600V-XXXX	64 QSFP56 ports, 200GbE 2U Open Ethernet Switch with Onyx	NVIDIA
200GbE	Spectrum-2	MSN3700-XXXX	32 QSFP56 ports, 200GbE Open Ethernet Switch System	NVIDIA

3 100GbE Switches

Speed	NVIDIA SKU	Legacy OPN	Description
100GbE	920-9N302-00xA-xxx / 920-9N302-00x7-xxx	SN4600-XXXX	64-port Non-blocking 100GbE Open Ethernet Switch System
100GbE	920-9N201-00x7-xxx	SN3700C-XXXX	32-port Non-blocking 100GbE Open Ethernet Switch System
100GbE	920-9N213-00x7-xxx	SN3420-XXXX	48 SFP + 12 QSFP ports Non-blocking 100GbE Open Ethernet Switch System
100GbE	920-9N101-00x7-xxx	SN2700-XXXX	32-port Non-blocking 100GbE Open Ethernet Switch System
100GbE	N/A	QFX5200-32C-32	32-port 100GbE Ethernet Switch System

Speed	NVIDIA SKU	Legacy OPN	Description
100GbE	N/A	7060CX-32S	32-port 100GbE Ethernet Switch System
100GbE	N/A	3232C	32-port 100GbE Ethernet Switch System
100GbE	N/A	N9K-C9236C	36-port 100GbE Ethernet Switch System
100GbE	N/A	93180YC-EX	48-port 25GbE + 6-port 100GbE Ethernet Switch System
100GbE	N/A	S6820-56HF	H3C S6850-56HF L3 Ethernet Switch with 48 SFP28 Ports and 8 QSFP28 Ports
100GbE	N/A	BMS T7032-IX7	32 QSFP28 ports support for 10/25/40/50/100GbE

3 PRM Revision Compatibility

This firmware version complies with the following Programmer's Reference Manual:

- Adapters Programmer's Reference Manual (PRM), Rev 0.53 or later, which has Command Interface Revision 0x5. The command interface revision can be retrieved by means of the QUERY_FW command and is indicated by the field cmd_interface_rev.

Supported Non-Volatile Configurations

Configuration	mlxconfig Parameter Name	Class	TLV ID
NV_MEMIC_CONF	MEMIC_BAR_SIZE	GLOBAL (0)	0x6
	MEMIC_SIZE_LIMIT		
NV_HOST_CHAINING_CONF	HOST_CHAINING_MODE		0x8
	HOST_CHAINING_DESCRIPTORS		
	HOST_CHAINING_TOTAL_BUFFER_SIZE		
NV_FLEX_PARS_CONF	FLEX_PARSER_PROFILE_ENABLE		0xe
	FLEX_IPV4_OVER_VXLAN_PORT		
NV_ROCE_1_5_CONF	ROCE_NEXT_PROTOCOL		0x10
NV_INTERNAL_RESOURCE_CONF	ESWITCH_HAIRPIN_DESCRIPTORS		0x13
	ESWITCH_HAIRPIN_TOT_BUFFER_SIZE		
NV_GLOBAL_PCI_CONF	NON_PREFETCHABLE_PF_BAR		0x80
	NUM_OF_VFS		
	SRIOV_EN		
	PF_LOG_BAR_SIZE		
	VF_LOG_BAR_SIZE		
	NUM_PF_MSIX		
	NUM_VF_MSIX		
NV_TPT_CONF	INT_LOG_MAX_PAYLOAD_SIZE		0x82
NV_POWER_CONF	SW_RECOVERY_ON_ERRORS		0x88
	RESET_WITH_HOST_ON_ERRORS		
	ADVANCED_POWER_SETTINGS		
NV_GLOBAL_MASK	ece_disable_mask		0x116
NV_SW_OFFLOAD_CONFIG	CQE_COMPRESSION		0x10a
	IP_OVER_VXLAN_EN		
	PCI_ATOMIC_MODE		
	LRO_LOG_TIMEOUT0		
	LRO_LOG_TIMEOUT1		
	LRO_LOG_TIMEOUT2		

Configuration	mlxconfig Parameter Name	Class	TLV ID
	LRO_LOG_TIMEOUT3		
	log_max_outstandng_wqe		
	NV_config.sr_enable (ConnectX-6 Dx and above)		
NV_IB_DC_CONF	LOG_DCR_HASH_TABLE_SIZE		0x190
	DCR_LIFO_SIZE		
NV_VPI_LINK_TYPE	LINK_TYPE	PHYSICAL_PORT (2)	0x12
NV_ROCE_CC	ROCE_CC_PRIO_MASK		0x107
	ROCE_CC_ALGORITHM		
NV_ROCE_CC_ECN	CLAMP_TGT_RATE_AFTER_TIME_INC		0x108
	CLAMP_TGT_RATE		
	RPG_TIME_RESET		
	RPG_BYTE_RESET		
	RPG_THRESHOLD		
	RPG_MAX_RATE		
	RPG_AI_RATE		
	RPG_HAI_RATE		
	RPG_GD		
	RPG_MIN_DEC_FAC		
	RPG_MIN_RATE		
	RATE_TO_SET_ON_FIRST_CNP		
	DCE_TCP_G		
	DCE_TCP_RTT		
	RATE_REDUCE_MONITOR_PERIOD		
	INITIAL_ALPHA_VALUE		
	MIN_TIME_BETWEEN_CNPS		
	CNP_802P_PRIO		
	CNP_DSCP		
NV_LLDP_NB_CONF	LLDP_NB_DCBX		0x10a
	LLDP_NB_RX_MODE		
	LLDP_NB_TX_MODE		
NV_LLDP_NB_DCBX	DCBX_IEEE		0x18e
	DCBX_CEE		
	DCBX_WILLING		
NV_KEEP_LINK_UP	KEEP_ETH_LINK_UP		0x190
	KEEP_IB_LINK_UP		
	KEEP_LINK_UP_ON_BOOT		

Configuration	mlxconfig Parameter Name	Class	TLV ID
	KEEP_LINK_UP_ON_STANDBY		
NV_QOS_CONF	NUM_OF_VL		0x192
	NUM_OF_TC		
	NUM_OF_PFC		
NV_MPFS_CONF	DUP_MAC_ACTION		0x196
	SRIOV_IB_ROUTING_MODE		
	IB_ROUTING_MODE		
NV_HCA_CONF	PCI_WR_ORDERING	HOST-FUNCTION (3)	0x112
	MULTI_PORT_VHCA_EN		
NV_EXTERNAL_PORT_CTRL	PORT_OWNER		0x192
	ALLOW_RD_COUNTERS		
	RENEG_ON_CHANGE		
	TRACER_ENABLE		
NV_ROM_BOOT_CONF2	IP_VER		0x195
	BOOT_UNDI_NETWORK_WAIT		
NV_ROM_UEFI_CONF	UEFI_HII_EN		0x196
NV_ROM_UEFI_DEBUG_LEVEL	BOOT_DBG_LOG		0x206
	UEFI_LOGS		
NV_ROM_BOOT_CONF1	BOOT_VLAN		0x221
	LEGACY_BOOT_PROTOCOL		
	BOOT_RETRY_CNT		
	BOOT_LACP_DIS		
	BOOT_VLAN_EN		
NV_ROM_IB_BOOT_CONF	BOOT_PKEY		0x222
NV_PCI_CONF	ADVANCED_PCI_SETTINGS	HOST (7)	0x80
SAFE_MODE_CONF	SAFE_MODE_THRESHOLD		0x82
	SAFE_MODE_ENABLE		

Release Notes History

1 Changes and New Feature History

⚠ This section includes history of 3 major releases back. For older releases history, please refer to the relevant firmware versions.

Feature/Change	Description
22.50.1002	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
26.50.1002	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
22.49.1014	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
26.49.1014	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
22.48.1000	
PLDM PDR Repository Change Event Support	PLDM now supports the PDR Repository Change event type, enabling notification to the BMC when PDRs change. With this flow, the BMC can detect cable insertion/removal events. Refer to DSP0248 for details.

Feature/Change	Description
22.48.1000	
NVGRE VSID Modify-Header Support	Extended packet modify-header operations to support `set` and `copy` actions on the NVGRE VSID (Virtual Subnet Identifier). A new field, `TUNNEL_HDR_DW_2` (0x84), enables dynamic VSID modification, adding header rewrite support for NVGRE tunnel traffic in addition to existing filtering capabilities.
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
22.47.1088	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
22.47.1026	
Parallel Suspends of VFs	Added support for parallel suspend operations across multiple VFs.
ADP-RETX Timeout Profile	Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
Passing Metadata Registers between the NIC Layer and the E-Switch (esw) Layer	This enhancement enables seamless metadata propagation across layers, allowing flow steering rules and packet processing logic to share contextual information such as flow identifiers, source context, or policy tags. It improves coordination between NIC and E-Switch pipelines, enabling more flexible traffic handling and advanced offload capabilities.
Enable/Disable ECN in Upstream	Added the ability to enable or disable ECN in the upstream by allowing the MODIFY_CONG_STATUS and QUERY_CONG_STATUS commands in mlx5_fwctl.
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
22.46.3048	
Security Hardening Enhancements	This release contains important reliability improvements and security hardening enhancements. NVIDIA recommends upgrading your devices firmware to this release to improve the devices' firmware security and reliability.

Feature/Change	Description
22.46.1006	
RSS with Crypto Offload	Added support for RSS with crypto offload enabling the NIC to parallelize packet processing across CPU cores while performing encryption/decryption in hardware. Additionally, introduced a new l4_type_ext parameter with values: 0 (None), 1 (TCP), 2 (UDP), 3 (ICMP).

Feature/Change	Description
22.46.1006	
Incoming NC-SI Messages Validation for the payload_len Field	Added an extra validation for the payload_len field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

2 Bug Fixes History

⚠ This section includes history of bug fixes of 3 major releases back. For older releases history, please refer to the relevant firmware versions Release Notes.

Internal ref.	Issue
5157189 / 4866555	**Description:** Resolved an issue where, when massive flows occurred in parallel with PCC, INIT2RTR could report a false alarm with syndrome 0x7 "dead IRISC."
	Keywords: IRISC, dead IRISC, PCC, INIT2RTR, syndrome 0x7
	Detected in version: 22.47.1026
	Fixed in release: 22.51.1002
4988444	**Description:** Resolved a false-positive "IRISC stuck" detection after cold reboot on Windows.
	Keywords: IRISC stuck, Windows, cold reboot, false positive
	Detected in version: 22.49.1014
	Fixed in release: 22.51.1002
5019624	**Description:** Resolved an issue where a PCIe SBR did not reset the MCTP discovery state, causing the device to miss EndpointDiscovery requests.
	Keywords: PCIe SBR, MCTP, EndpointDiscovery, reset
	Detected in version: 22.50.1002
	Fixed in release: 22.51.1002

Internal Ref.	Issue
4774394 / 4890471 / 4890472 / 4890473	**Description:** Fixed an issue where vDPA doorbell resources were not released, which could cause failures when running other functionality after a vDPA FLR. Doorbell resources are now properly unlocked.
	Keywords: vDPA
	Detected in version: 22.48.1000
	Fixed in Release: 22.49.1014
4796182	**Description:** Fixed an issue where the live migration target did not receive a port state change event on the resume VHCA command. The target now generates this event so software that depends on port state is notified of any changes.
	Keywords: Live migration
	Detected in version: 22.47.1026
	Fixed in Release: 22.49.1014
4924450 / 4942300 / 4942302 / 4942304	**Description:** Fixed an issue in PCC where RDMA traffic could stall at large scale for certain IP and UDP source-port combinations when a PCC user algorithm was active and no CC algorithm was configured in slot 0.
	Keywords: PCC, RDMA
	Detected in version: 22.47.1026
	Fixed in Release: 22.49.1014

Internal Ref.	Issue
4621747 / 4792742 / 4794290	**Description:** Fixed an issue where parallel accesses to the MCIA register could return incorrect data. In some hosts running ethtool -m <interface> repeatedly (e.g., once per second), this could intermittently report Identifier: 0x00 (unknown/no module), causing health checks to fail.
	Keywords: MCIA register
	Detected in version: 22.47.1026
	Fixed in Release: 22.48.1000
4727303 / 4718947	**Description:** Fixed an issue in the steering definers used for LAG with IPv6 traffic.
	Keywords: LAG, IPv6 traffic, steering
	Detected in version: 22.47.1026
	Fixed in Release: 22.48.1000
4450570 / 4780432 / 4780433	**Description:** Fixed an issue where the root complex sent MCTP-over-PCI messages before a BDF was assigned, causing responses to be sent with BDF 0. The fix ensures that MCTP messages routed by ID are ignored until a valid BDF is assigned.
	Keywords: MCTP-over-PCI, BDF, MCTP messages
	Detected in version: 22.47.1026

Internal Ref.	Issue
	Fixed in Release: 22.48.1000

Internal Ref.	Issue
4575696	**Description:** Fixed an issue where multiple long-running process registers could cause aborted access and timeouts, the internal state is now properly handled.
	Keywords: ibdiagnet2
	Detected in version: 22.46.1006
	Fixed in Release: 22.47.1026
4501554	**Description:** Fixed an assertion failure that could occur with the E-Switch uplink in specific configurations where the e-switch was disabled and Path Migration was active or GVMIs were using SRQ loopback in SQs. The issue occurred because the firmware attempted to perform cleanup operations when the uplink configuration lacked sufficient capacity. Now, when the E-Switch is disabled and no actions are available in the uplink STE, the firmware connects to the uplink STE instead of copying it.
	Keywords: Path migration, steering
	Detected in version: 22.46.1006
	Fixed in Release: 22.47.1026
4531675	**Description:** Fixed an incorrect GPIO indication in the INI file that caused a false signal, preventing module initialization.
	Keywords: GPIO indication
	Detected in version: 22.45.1020
	Fixed in Release: 22.47.1026
4529293	**Description:** Fixed an issue where, during failover or restart, the SM sending a PortInfo MAD to the HCA firmware triggered reinitialization of port buffers, momentarily halting ingress traffic and causing packet drops. The firmware now avoids reconfiguring port buffers when the new configuration matches the current one.
	Keywords: OpenSM
	Detected in version: 22.45.1020
	Fixed in Release: 22.47.1026

Internal Ref.	Issue
4366117	**Description:** Configuring a small MTU leads to fragmentation of packets critical for the PXE boot process. As a result, the PXE boot filters mistakenly discard these packets, causing the PXE boot to fail.
	Keywords: PXE boot filters
	Discovered in Version: 22.45.1020
	Fixed in Release: 22.46.1006

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Product	Version	Legal Notices and 3rd Party Licenses
Firmware	xx.51.10xx	• License • 3rd Party Notice • 3rd Party Unify Notice • HCA Firmware EULA
DOCA-Host	3.6.0	• License • 3rd Party Notice • 3rd Party Unify Notice
MFT FreeBSD	4.38.0-134	• License • 3rd Party Notice • 3rd Party Unify Notice
MFT Linux		• License • 3rd Party Notice • 3rd Party Unify Notice
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