NVIDIA ConnectX-6 Lx Adapter Cards Firmware Release Notes v26.51.1002

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Release Notes Update History

Version	Date	Description
26.51.1002	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 Lx adapters firmware. This firmware supports the following protocols:

- Ethernet - 1GbE, 10GbE, 25GbE, 50GbE
- 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.

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

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 Lx Firmware	26.51.1002 / 26.50.1002 / 26.49.1014

	Supported Version
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
26.51.1002	
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
5323929 / NVBug 6536162	**Description:** Resolved a PLDM firmware update failure caused by an insufficient message retry timeout. The timeout has been increased from 1 to 1.5 seconds.
	Keywords: PLDM, firmware update, retry timeout
	Detected in version: 26.48.1000
	Fixed in release: 26.51.1002
5190887	**Description:** Resolved a steering bug that caused missing responder CQEs for RoCE UD traffic with inline receive queues under certain SW QP type configurations.
	Keywords: RoCE UD, CQE, inline receive, steering, SW QP
	Detected in version: 26.50.1002
	Fixed in release: 26.51.1002
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: 26.49.1014
	Fixed in release: 26.51.1002
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: 26.50.1002
	Fixed in release: 26.51.1002

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: 26.49.1014
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.
	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: 26.47.1088
4893639	**Description:** Direct Memory Access (DMA) protection is not supported in the ipxe.efi driver.
	Workaround: N/A

Internal Ref.	Issue
	Keywords: DMA
	Detected in version: 26.47.1088
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: 26.45.1020
3464393	**Description:** PhyLess Reset is currently not supported.
	Workaround: N/A
	Keywords: PhyLess Reset
	Discovered in Version: 26.39.1002
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: 26.39.1002
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: 26.37.1014
3267506	**Description:** CRC is included in the traffic byte counters as a port byte counter.
	Workaround: N/A
	Keywords: Counters, CRC
	Discovered in Version: 26.35.2000
3200779	**Description:** Changing dynamic PCIe link width is not supported.
	Workaround: N/A
	Keywords: PCIe
	Discovered in Version: 26.34.1002
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: 26.34.1002

Internal Ref.	Issue
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: 26.34.1002
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: 26.32.1010
2834990	**Description:** On rare occasions, when toggling both sides of the link, the link may not rise.
	Workaround: Toggle the port to free it.
	Keywords: Port toggling, link
	Discovered in Version: 26.31.1014
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.
	Workaround: N/A
	Keywords: Connection Tracking
	Discovered in Version: 26.31.1014
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: 26.28.1002

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
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	980-9I54H-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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9I54L-00V02A	MCP1650-V02AE26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2.5m, black pulltab, 26AWG	LTB [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	980-9IA3X-00V001	MCP7H70-V001R30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1m, 30AWG	EOL [P-Rel]
N/A	200GE	980-9IA3Y-00V002	MCP7H70-V002R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 2m, 26AWG	EOL [P-Rel]
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]

3 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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	980-9I62V-00C002	MCP1600-C002E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N	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	980-9I627-00C00A	MCP1600-C00AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I62C-00C01A	MCP1600-C01AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N	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
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]
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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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]
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

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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
N/A	100GE	980-9I625-00C005	MCP1600-C005E26L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 26AWG, CA-L	HVM

⚠ The spilt cables cables above can be used as split cables when ConnectX-6 Lx adapter card in on the split side.

4 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]

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

5 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

6 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

7 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
SFP	10GE	1-2053783-2	PASSIVE COPPER CABLE ETH 10GBE SFP 3M
SFP	25GE	FTLF8536P4BCL	TRANSCIEVER 25GBE SFP SR
SFP	25GE	LTF8507-PC07	HISENSE ACTIVE FIBER CABLE, 25GBE
SFP	25GE	FTLF1436P3BCL	TRANSCIEVER 25GBE SFP LR
SFP	10GE	SFP-H10GB-CU5M	PASSIVE COPPER CABLE ETH 10GBE SFP 3M
SFP	10GE	QSFP-H40G-CU5M	PASSIVE COPPER CABLE ETH 10GBE SFP 5M
SFP	10GE	CAB-SFP-SFP-1M	PASSIVE COPPER CABLE ETH 10GBE SFP 1M
SFP	10GE	CAB-SFP-SFP-5M	PASSIVE COPPER CABLE ETH 10GBE SFP 5M

Form Factor	Eth Data Rate	Cable P/N	Description
SFP	10GE	CAB-SFP-SFP-3M	PASSIVE COPPER CABLE ETH 10GBE SFP 3M
SFP to BaseT	10GE	MTKP1045M1CNN	TRANSCIEVER SFP TO BASET 10G
SFP+	10GE	SFP-10G-SR	CISCO 10GBASE SFP
SFP	10GE	SFP-H10GB-SU5M	MOLEX SFP-H10GB-SU5M
SFP	25GE	SFP-H25G-CU3M	CISCO 25GBASE-CR1 COPPER CABLE 3-METER NDCCGJ-C403
SFP	10GE	SFP-H10GB-CU5M	CISCO-MOLEX SFP-H10GB-CU5M
SFP	10GE	FTLX8574D3BCL	FTLX8571D3BCL-ME 10GBASE-LR
SFP+	10GE	FTLX1471D3BCL-ME	FTLX1471D3BCL-ME 10GBASE-LR
SFP	10GE	QSFP-4SFP10G-CU5M	CISCO QSFP-4SFP10G-CU5M
SFP+	10GE	FTLX8571D3BCL-ME	DELL FINISAR 10GB SFP 850NM OPTIC TRANSCEIVER
SFP	1GE	FTLF8519P3BTL-N1	1000BASE-SX AND 2G FIBRE CHANNEL (2GFC) 500M INDUSTRIAL TEMPERATURE SFP OPTICAL TRANSCEIVER
SFP+	10GE	FTLX8571D3BCL-ME	10GB SFP 850NM OPTIC TRANSCEIVER
SFP+	1GE	FTLF1428P2BNV	8 GIGABIT ROHS COMPLIANT LONG-WAVELENGTH SFP+ TRANSCEIVER
SFP+	1GE	FTLF8528P2BCV	8.5 GB/S SHORT-WAVELENGTH SFP+ TRANSCEIVER
SFP+	25GE	74752-9520	CISCO MOLEX SFP H10GB CX1 PASSIVE CU3M 74752 9520
SFP	1GE	FCLF8522P2BTL	CBL ASSY 4X25G ETH QSFP 1M (SERVICE PORT)
SFP	25GE	NDCCGJ-C403	CISCO 3M COPPER CABLE
SFP	1GE	FCLF8521P2BTL	1000BASE-T ROHS COMPLIANT COPPER SFP TRANSCEIVER
SFP	10GE	SFP-10GB-SR	CISCO-SUMITOMO 100GBE AOM
SFP	10GE	SFP-10G-T-A-ENC	10GBASE-T COPPER SFP+ FOR CAT6A CAT7 RJ 45 30M MAX
SFP+	10GE	FTLX1471D3BCL-EM	10GB/S 10KM SINGLE MODE DATACOM SFP+ TRANSCEIVER
SFP+	10GE	FTLX1672D3BCL	10GB/S, 40KM SINGLE MODE, MULTI-RATE SFP+ TRANSCEIVER
SFP	1GE	AFBR-5710PZ	AVAGO AFBR-5710PZ COMPATIBLE 1000BASE-SX SFP 850NM
SFP+	10GE	AFBR-703SDZ-MX1	AVAGO 10GB ETHERNET 850NM 10GBASE-SR
SFP	10GE	D4SFP10G1	10GBE SFPS
QSFP to 4xSFP	10GE---40 GE	FCBN510QE2C03	CABLE 4SFP+-QSFP+ M-M 3M
SFP56	50GE	FTLF8556D1BCW	FIBRE OPTIC TRANSMITTERS, RECEIVERS, TRANSCEIVERS 850NM OXIDE VCSEL, 50GE, 53.125/25.78/10.3 GB/S TRANSCEIVER
SFP+	10GE	FTLX8574D3BCV	FIBRE OPTIC TRANSMITTERS, RECEIVERS, TRANSCEIVERS 10G 850-NM VCSEL 1G/10G DUAL-RATE

Form Factor	Eth Data Rate	Cable P/N	Description
SFP+	10GE	MFM1T02A-SR	10GBASE-LR SFP+
SFP28	25GE	GSS-MDO250-007CA	25GE SFP28 ENHANCED AOC
SFP	1GE	RTXM191-450-H3C	1.25G-1310NM-40KM OPTICAL TRANSCEIVER SFP
SFP+	10GE	R0R41A	10GB BASE-T P15891-001 SFP+ RJ45 30M XCVR TRANSCEIVER
SFP+	10GE	R0R41B	10GBASE-T SFP+ RJ45 300M
SFP+	10GE	SP7051-HP	SFP+ 10GBASE-T
SFP	1GE	FTLF1318P3BTL-IB	TRANSCEIVER MODULE ETHERNET, FIBRE CHANNEL 1.25GBPS 1310NM 3.3V LC DUPLEX PLUGGABLE, SFP
SFP	1GE	FTLF8519P3BNL-IB	TRANSCEIVER MODULE ETHERNET, FIBRE CHANNEL 1.25GBPS 1310NM 3.3V LC DUPLEX PLUGGABLE, SFP
SFP28	25GE	MMA2L20-AR-PLV	25G LR SFP28 TRANSCEIVER (SMF, 1310NM, 10KM, LC, DOM)
SFP28	25GE	MMA2P00-AS-PLV	25GBASE-SR SFP28 TRANSCEIVER (MMF, 850NM, 100M, LC, DOM)
SFP+	10GE	DM7053	COPPER 10G BASE-T
SFP	1GE	FTLF1318P3BTL	TRANSCEIVER MODULE ETHERNET, FIBRE CHANNEL 1.25GBPS 1310NM 3.3V LC DUPLEX PLUGGABLE, SFP
SFP+	10GE	GLC-T-10G-AO	CISCO GLC-T-10G COMPATIBLE TAA COMPLIANT 100,1000,10000BASE-TX SFP+ TRANSCEIVER (COPPER, 30M, RJ-45)
SFP+	10GE	EX-SFP-10GE-LR	[COREWEAVE] 1FP+ 10GBASE-LR 10 GIGABIT ETHERNET OPTICS, 1310NM FOR 10KM TRANSMISSION ON SMF, EX-SFP-10GE-LR-LU
SFP+	10GE	EX-SFP-10GE-SR	[COREWEAVE] 10GBASE-SR SFP+ TRANSCEIVER, 850NM, 300M, EX-SFP-10GE-SR-LU
SFP+	1GE	FCLF8521P2BTL-HP	1GBT SFP+ RJ-45 TRANSCEIVER MODULE
SFP56	50GE	FTLF8556E1BCL	50G SFP56 SR UNIVERSAL TRANSCEIVER, 850NM, 100M, LC-DUPLEX, MULTIMODE MMF
QSFP-DD to 8 SFP56	50GE	NDYNYH-0001	AMPHENOL QSFP DD - 8X SFP CABLE ASSEMBLY, PASSIVE, 27AWG, 1M, 56G / LANE, JACKET
QSFP-DD to 8 SFP56	50GE	NDYNYH-0002	AMPHENOL QSFP DD - 8X SFP CABLE ASSEMBLY, PASSIVE, 27AWG, 2M, 56G / LANE, JACKET
QSFP-DD to 8 SFP56	50GE	NDYNYH-0003	AMPHENOL QSFP DD - 8X SFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 56G / LANE, JACKET
SFP	10GE	74752-9096	CISCO-MOLEX 10G SFP+ ACTIVE DAC, 5M
SFP	10GE	74752-9521	CISCO 10G SFP+ MODULE
SFP28	25GE	ATRS-2005	HGTECH 25G SFP28 AOC 5M
SFP28	25GE	ATRS-2007	HGTECH 25G SFP28 AOC 7M
SFP28	25GE	FCBG125SD1C05M	FINISAR SFP28 AOCS 5M
SFP28	25GE	FCBG125SD1C10M	FINISAR SFP28 AOCS 7M

Form Factor	Eth Data Rate	Cable P/N	Description
QSFP to 4xSFP	40GE	L45593-D178-B50	CISCO 40G QSFP TO 4X10G SFP BREAKOUT DAC, 5M
SFP28	25GE	LTF8507-PC05	HISENSE 25G SFP28 AOCS 5M
SFP28	25GE	RTXM330-005	ACCELINK 25G SFP28 AOCS 5M
SFP28	25GE	RTXM330-007	ACCELINK 25G SFP28 AOCS 7M
SFP+	10GE	SFP-H10GB-CU1M	CISCO 10G SFP+ DAC
SFP28	25GE	AFBR-735ASMZ-HT1	BROADCOM DUAL RATE 10G/25G SR SFP28 MODULE
QSFP56 to DSFP	100GE	RTXM520-2xx rev:0B	ACCELINK 100G AOC QSFP56 TO DSFP
SFP+	25GE	FTLF8536P5BCL	FINISAR 25G SFP+
SFP28	25GE	XP-85B1-02D-H1	AMPHENOL 25G SR MODULE

2 Tested Switches

1 100GbE Switches

Speed	Switch Silicon	OPN # / Name	Description	Vendor
100GbE	Spectrum-3	MSN4600-XXXX	64-port Non-blocking 100GbE Open Ethernet Switch System	NVIDIA
100GbE	Spectrum-2	MSN3700C-XXXX	32-port Non-blocking 100GbE Open Ethernet Switch System	NVIDIA
100GbE	Spectrum-2	MSN3420-XXXX	48 SFP + 12 QSFP ports Non-blocking 100GbE Open Ethernet Switch System	NVIDIA
100GbE	Spectrum	MSN2410-XXXX	48-port 25GbE + 8-port 100GbE Open Ethernet Switch System	NVIDIA
100GbE	Spectrum	MSN2700-XXXX	32-port Non-blocking 100GbE Open Ethernet Switch System	NVIDIA
100GbE	N/A	QFX5200-32C-32	32-port 100GbE Ethernet Switch System	Juniper
100GbE	N/A	S6820-56HF	48 SFP+ + 8 QSFP Ports 100GbE Switch Ethernet	H3C
100GbE	N/A	CE6860-1-48S8CQ-EI	Huawei 100GbE Ethernet switch	Huawei
100GbE	N/A	7060CX-32S	32-port 100GbE Ethernet Switch System	Arista
100GbE	N/A	3232C	32-port 100GbE Ethernet Switch System	Cisco
100GbE	N/A	N9K-C9236C	36-port 100GbE Ethernet Switch System	Cisco

Speed	Switch Silicon	OPN # / Name	Description	Vendor
100GbE	N/A	93180YC-EX	48-port 25GbE + 6-port 100GbE Ethernet Switch System	Cisco
100GbE	N/A	T7032-IX7	32-port 100GbE Ethernet Switch System	Quanta

2 10/40GbE Switches

Speed	Switch Silicon	OPN # / Name	Description	Vendor
10GbE	N/A	5548UP	32x 10GbE SFP+ Switch System	Cisco
10/40GbE	N/A	7050Q	16 x 40GbE QSFP+ Switch System	Arista
10/40GbE	N/A	7050S	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Arista
10/40GbE	N/A	G8264	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Lenovo
10/40GbE	N/A	QFX3500	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Juniper
10/40GbE	N/A	S4810P-AC	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Force10
10/40GbE	N/A	3064	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Cisco
10/40GbE	N/A	8164F	48x 10GbE SFP+ and 2 x 40GbE QSFP+ Switch System	Dell
10/40GbE	N/A	S5000	48x 10GbE SFP+ and 4 x 40GbE QSFP+ Switch System	Dell
10/40GbE	N/A	3132Q	4x 10GbE SFP+ and 32 x 40GbE QSFP+ Switch System	Cisco
40GbE	N/A	7050QX	32x 40GbE QSFP+ Switch System	Arista
40GbE	N/A	G8316	16x 40GbE QSFP+ Switch System	Lenovo
40GbE	N/A	S6000	32x 40GbE QSFP+ Switch System	Dell

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
26.50.1002	
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
26.48.1000	
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.
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
26.47.1088	
Bug Fixes	See *Bug Fixes in this Firmware Version* section.

Feature/Change	Description
26.47.1026	
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
26.46.3048	
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
26.46.1006	
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).
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
4907477 / 4967948	**Description:** Resolved an issue that could prevent the adapter PCIe link from re-establishing after the host resumed from a deep power-down state. This fix improves suspend/resume reliability.
	Keywords: PCIe link
	Detected in version: 26.47.1026
	Fixed in Release: 26.50.1002
4850023 / 4792368	**Description:** Resolved an issue where the host could fail to wake from a Wake-on-LAN magic packet after being powered off using Press and Hold.

Internal Ref.	Issue
	Keywords: Wake-on-LAN
	Detected in version: 26.48.1000
	Fixed in Release: 26.50.1002
4953957	**Description:** Resolved an issue where the server could hang during shutdown while running a reboot loop test.
	Keywords: Server hang
	Detected in version: 26.48.1000
	Fixed in Release: 26.50.1002

Internal Ref.	Issue
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: 26.47.1026
	Fixed in Release: 26.49.1014
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: 26.47.1026
	Fixed in Release: 26.49.1014

Internal Ref.	Issue
4727303 / 4718947	**Description:** Fixed an issue in the steering definers used for LAG with IPv6 traffic.
	Keywords: LAG, IPv6 traffic, steering
	Detected in version: 26.47.1026
	Fixed in Release: 26.48.1000
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: 26.47.1026
	Fixed in Release: 26.48.1000

Internal Ref.	Issue
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: 26.46.1006
	Fixed in Release: 26.47.1026
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
	Discovered in Version: 26.46.1006
	Fixed in Release: 26.47.1026

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: 26.45.1020
	Fixed in Release: 26.46.1006

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