



NVIDIA ConnectX-7 Adapter Cards Firmware Release Notes v28.47.3576 (2025 LTS U3)

Table of Contents

	Release Notes Update History.....	5
	Overview	6
1	Firmware Download.....	6
2	Document Revision History	6
	Firmware Compatible Products.....	7
1	Supported Devices	7
2	Driver Software, Tools and Switch Firmware	7
	Changes and New Features	9
1	Customer Affecting Changes	9
1	Changes in This Release	9
2	Changes Planned for Future Releases.....	9
3	Changes in Earlier Releases	10
4	Discontinued Features	10
2	Declared Unsupported Features	11
	Bug Fixes in this Firmware Version	12
	Known Issues	14
	PreBoot Drivers (FlexBoot/UEFI)	21
1	FlexBoot Changes and New Features.....	21
2	UEFI Changes and Major New Features	21
	Validated and Supported Cables and Switches	22
1	Validated and Supported Cables and Modules	22
1	Cables Lifecycle Legend	22
2	InfiniBand/Ethernet Support.....	22
3	NDR / 400GbE / 800GbE Cables.....	23
4	HDR / 200GbE Cables	29
5	HDR100 Cables	34
6	EDR / 100GbE Cables.....	35
7	FDR / 56GbE Cables	40
8	50GbE Cables.....	41
9	40GbE Cables.....	42
10	25GbE Cables.....	42
11	10GbE Cables.....	43
12	1GbE Cables	45
13	Supported 3rd Party Cables and Modules.....	45

2	Tested Switches	54
1	NDR / 400GbE Switches	54
2	HDR / 200GbE Switches	54
3	100GbE Switches	55
	Release Notes History	56
1	Changes and New Feature History	56
2	Bug Fixes History	59
	Legal Notices and 3rd Party Licenses	68



This LTS version has been tested and is fully supported with the following GB versions: GB200 v1.3.10 and GB300 v1.0.10.



This is a long-term support (LTS) release. LTS is the practice of maintaining a software product for an extended period of time (up to three years) to help increase product stability. LTS releases include bug fixes and security patches.

Release Notes Update History

Version	Date	Description
28.47.3576	July 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.

The ConnectX-7 smart host channel adapter (HCA) provides up to four ports of connectivity and 400Gb/s of throughput, hardware-accelerated networking, storage, security, and manageability services at data center scale for cloud, telecommunications, AI, and enterprise workloads. ConnectX-7 empowers agile and high-performance networking solutions with features such as Accelerated Switching and Packet Processing (ASAP2), advanced RoCE, GPUDirect Storage, and in-line hardware acceleration for Transport Layer Security (TLS), IP Security (IPsec), and MAC Security (MACsec) encryption and decryption. ConnectX-7 enables organizations to meet their current and future networking needs in both high-bandwidth and high-density environments.

The ConnectX-7 smart host channel adapter (HCA), featuring the NVIDIA Quantum-2 InfiniBand architecture, provides the highest networking performance available to take on the world's most challenging workloads. ConnectX-7 provides ultra-low latency, 400Gb/s throughput, and innovative NVIDIA In-Network Computing acceleration engines to provide additional acceleration to deliver the scalability and feature-rich technology needed for supercomputers, artificial intelligence, and hyperscale cloud data centers.

1 Firmware Download

Please visit [Firmware Downloads](#).

2 Document Revision History

A list of the changes made to this document are provided in [Document Revision History](#).

Firmware Compatible Products

These are the release notes for the NVIDIA® ConnectX®-7 adapters firmware. This firmware supports the following protocols:

- InfiniBand - EDR, HDR100², HDR², NDR200², NDR²
- Ethernet - 1GbE, 10GbE, 25GbE, 40GbE, 50GbE¹, 100GbE¹, 200GbE², 400GbE²
- PCI Express 5.0, supporting backwards compatibility for v4.0, 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.

1 Supported Devices

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-7 Firmware	28.47.2682 / 28.47.1088 28.47.3576
DOCA-HOST	3.2.3 / 3.2.2 Note: For the list of the supported Operating Systems, please refer to the driver's Release Notes.

	Supported Version
WinOF-2	25.10.51000 / 25.10.50020 / 25.10.50020 Note: For the list of the supported Operating Systems, please refer to the driver's Release Notes.
MFT	4.34.1-25 / 4.34.1-18 / 4.34.1-10 Note: For the list of the supported Operating Systems, please refer to the driver's Release Notes.
FlexBoot	3.8.201
UEFI	14.40.10
MLNX-OS	3.12.6000 onwards
Cumulus	5.15.0
NVIDIA Quantum-2 Firmware	31.2016.2054 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
28.47.3576	
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.
Bug Fixes	See <i>Bug Fixes</i> section.

1 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.

Introduced in Version	Description	Customer Impact and Recommendation
28.47.10 26	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."	
28.47.10 26	Starting with the October 2025 firmware release, and for all subsequent versions, compatibility with the older MFT releases (4.31.0-149 and 4.30.0-139) is no longer supported.	
28.46.10 06	Renamed firmware-generated PLDM images to include the firmware name and PSID.	
28.43.20 26	DPA Outbox Blocking-Mode Due to a silicon issue, as of firmware version 28.43.2026, the DPA outbox is configured to operate in non-blocking mode, causing DPA outbox requests to complete immediately without waiting for actual completion. As a result, the DPA stack must poll a "busy" bit before initiating another DPA outbox operation.	Update the firmware version to 28.43.2026 or higher or update the BF-Bundle (containing this firmware) and DOCA-Host to 2.9.x or higher. This is mandatory for customers programming the DPA (e.g., DPA with DOCA PCC, or using NVIDIA turn-key apps which utilize the DPA (virtio-net/blk/fs, NVMe).
	DPA Thread Context Due to internal-stack API changes, as of firmware v28.43.2026, DPA thread context is changed in the DPA. This affects the overlying DPA stack. As of firmware version 28.43.2026, internal-stack API changes have altered the DPA thread context, impacting the overlying DPA stack.	

4 Discontinued Features

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

N/A

2 Declared Unsupported Features

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

N/A

Bug Fixes in this Firmware Version

Internal Ref.	Issue
4986813 / 4704203	Description: Fixed a constant packet drop issue that caused DeepEP test case traffic to hang. The fix updates the STE search flow to run under a locking mechanism, preventing access to invalid STE entries that could result in packet drops.
	Keywords: DeepEP
	Detected in version: 28.43.2566
	Fixed in Release: 28.47.3576
4895260 / 4683339	Description: Fixed an issue where QPs established before loading DOCA PCC could exhibit inconsistent algorithm-selected behavior between ports in LAG mode after DOCA PCC is loaded.
	Keywords: Congestion Control, DOCA PCC
	Detected in version: 28.43.2566
	Fixed in Release: 28.47.3576
4980136 / 4220646 / NVbug 6072675	Description: Fixed an issue where a missing .ini parameter caused total_num_of_hosts to increment incorrectly, resulting in the inability to create a Hardware RoCE LAG (mlx5_bond_0).
	Keywords: RoCE LAG
	Detected in version: 28.47.2526
	Fixed in Release: 28.47.3576
4921307 / 4873608	Description: Fixed an issue where a precopy image was handled during the stop-copy phase, resulting in extended downtime due to a software limitation. The slow performance was caused by a handler that performed a linear data search. The fix improves the search algorithm through compile-time preprocessing.
	Keywords: Live Migration
	Detected in version: 28.47.1026
	Fixed in Release: 28.47.3576
4982511 / 4947006	Description: Fixed two rare race conditions in the PCC steering extension when the feature is enabled via path migration, empty RTT, or a custom header.
	Keywords: PCC steering extension

Internal Ref.	Issue
	Detected in version: 28.47.1026 Fixed in Release: 28.47.3576
4979312 / 4792659	Description: Fixed an issue where the firmware did not accept the configured NUM_OF_VFS value and instead used the default VF setting. Keywords: VF settings Detected in version: 28.47.1026 Fixed in Release: 28.47.3576
4924799 / 4859700	Description: Fixed an issue caused by a race condition in standby/boot power sequencing. In certain timing windows, port power-down could be delayed such that the power-up flow detected the port still transitioning to power-down, causing the sequence to fail and leaving the port stuck in a powered-down state. Keywords: PXE boot Detected in version: 28.47.1026 Fixed in Release: 28.47.3576
4850603 / 4907678	Description: Fixed a rare race condition in the SUSPEND_VHCA command that could cause the command to hang. Keywords: Live Migration Detected in version: 28.47.1088 Fixed in Release: 28.47.3576

Known Issues

VF Network Function Limitations in SR-IOV 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)

Internal Ref.	Issue
4919262 / 4901395	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. If the BIOS initiates a new TFTP session using different source and destination UDP ports, the UEFI driver fails to update the firmware with these new ports, resulting in dropped packets.
	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: 28.47.3576
4890473 / 4774394	Description: VDPA does not unlock doorbell resources, as the original design assumed they would be reused. However, this causes issues when running other functionalities after a VDPA FLR.
	Workaround: Unlock these resources to release the memory.
	Keywords: VDPA
	Detected in version: 28.47.2682
4436870	Description: PCIe link speed may degrade after a disable/enable operation.
	Workaround: A manual retrain command is required to restore full speed.

Internal Ref.	Issue
	Keywords: PCIe Detected in version: 28.47.1026
4604969	Description: Probe packets might be dropped at the transmission stage when multiple congestion control flows are active. Workaround: N/A Keywords: PCC, RTT, probe Detected in version: 28.47.1026
4496642	Description: The timestamps (t2, t4) of the received RTT probes are taken from the free-running clock, even when ROCE_CC_RTT_TIMESTAMP_FORMAT is set to 0x02. The format of all RTT probe timestamps can be found in HCA_CAP.rtt_timestamp_format. Workaround: N/A Keywords: RTT RTC timestamp Detected in version: 28.47.1026
4705241	Description: When Quantum-2 is part of an XDR topology, serving as a leaf switch connected to NDR-based hosts, a bandwidth degradation of approximately 3-7 Gb/s is expected. Workaround: N/A Keywords: XDR, NDR, Quantum-2 Detected in version: 28.47.1026
4705948	Description: When using DC as the InfiniBand transport type to perform an ib_read RDMA operation between ConnectX-7 (NDR) and ConnectX-8, a bandwidth degradation of approximately 25% may be observed when using a low number of QPs (1-16). The performance degradation diminishes as the number of QPs increases. Workaround: N/A Keywords: DC, ib_read RDMA, NDR, performance Detected in version: 28.47.1026
4685736	Description: Creating a DPA process that allocates a 128 MB data segment and loads a dynamic library may fail with syndrome 0xdc30ac. Workaround: Limit the DPA application's data segment size to 64 MB. Keywords: DPA Detected in version: 28.47.1026
4628696	Description: When HASH LAG single QP is enabled, ib_read_bw for a single QP over hash LAG can reach up to 337 Gbps, while ib_write_bw for a single QP can achieve up to 390 Gbps. Workaround: N/A Keywords: HASH LAG single QP Detected in version: 28.47.1026
4657082	Description: PTP holdover is not supported on FireFly without SyncE; it is available only when using Servo. Workaround: N/A Keywords: PTP Holdover

Internal Ref.	Issue
	Detected in version: 28.47.1026
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 <code>mlxconfig ROCE_CC_PRIO_MASK_P\$port</code> or <code>sysfs ecn/roce_rp/enable/\$port</code> .
	Keywords: Congestion control, ROCE_CC_PRIO
	Detected in version: 28.45.1020
4063662	Description: The 1pps Timing Error (TE) in Noise Generation (Class B) shows a constant offset when RS-FEC is disabled in the mlxlink option.
	Workaround: N/A
	Keywords: PTP, 1PPS
	Detected in version: 28.45.1020
4303583	Description: The query_header_modify_pattern command may produce inaccurate results when specific fields are used.
	Workaround: N/A
	Keywords: query_header_modify_pattern command
	Detected in version: 28.45.1020
3875417	Description: For systems that support a large number of VFs (200 or more) and can open over a million QPs, the FLR may take about 1 second per function resulting in a driver timeout.
	Workaround: N/A
	Keywords: VFs, QPs, FLR
	Detected in version: 28.44.1204
4193036	Description: The initial allocation of DPA_THREAD on group affinity allocates memory for all EUs, including stack, core dump, and other resources.
	Workaround: N/A
	Keywords: DPA
	Detected in version: 28.44.1204
4030457	Description: This release does not support InfiniBand (IB) over Windows OS when using ConnectX-7 MCX75310AAS-NEAT and MCX75310AAC-NEAT OPNs.
	Workaround: N/A
	Keywords: InfiniBand, Windows
	Detected in version: 28.42.1000
2169950	Description: When decapsulation on a packet occurs, the FCS indication is not calculated correctly.
	Workaround: N/A
	Keywords: FCS
	Discovered in Version: 28.42.1000
-	Description: Downgrading the following adapter cards (MCX713104AS-ADAT & MCX713104AC-ADAT) to a lower version than 20.39.2048 is not supported.

Internal Ref.	Issue
	Workaround: N/A Keywords: Downgrade Discovered in Version: 28.40.1000
3728450	Description: SW_RESET with a pending image is currently not supported. Workaround: N/A Keywords: SW_RESET Discovered in Version: 28.40.1000
3735988	Description: In IB system, RTT_response_sl feature does not work with Sniffer tools (e.g., Wireshark/Tcpdump/). Workaround: N/A Keywords: Health buffer, sniffer, RTT Discovered in Version: 28.40.1000
3614362	Description: When connected to a Spectrum-1 switch system using NRZ 25G optic module supporting DME in NO FEC, an EFF BER of -13 may be seen once in 200 toggles. Workaround: To raise the link, re-toggle the port. Keywords: Spectrum-1, NRZ, BER, port toggling Discovered in Version: 28.39.1002
3629216	Description: mlxfwreset level 3 command is not supported for MCX750500B-0D00 / MCX750500B-0D0K / MCX755206AS-NEAT-N P/N. Workaround: 1. Enable mlxfwreset level 4. <pre>mlxfwreset -d <dev> r -l 4 -y</pre> 2. Reboot the server. Keywords: mlxfwreset level 3 Discovered in Version: 28.39.1002
-	Description: The I ² C clock fall time is lower than the 12ns minimum defined in the I2C-bus specification. For further information, refer to the I ² C-bus Specification, Version 7.0, October 2021, https://www.i2c-bus.org/ . Workaround: N/A Keywords: I ² C clock Discovered in Version: 28.39.1002
3179534	Description: 25G/lane speeds are not supported on 200GbE optic cables. Workaround: N/A Keywords: Cables, 200GbE Discovered in Version: 28.39.1002
3435259	Description: The host enables the device to populate only 1 bus. When opening extra 2 Physical ports, moving from dual-port to quad-port, the user can open 2 less Virtual Functions. Workaround: N/A

Internal Ref.	Issue
	Keywords: VF, dual-port, quad-port Discovered in Version: 28.39.1002
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: 28.39.1002
3363753	Description: The link is down when connected to the MMS1V00-WM (DR4) optical module. Workaround: N/A Keywords: 400G, link down Discovered in Version: 28.38.1002
3439438	Description: When connecting to a High Speed Traffic Generator in 400G speed, the linkup time may takes up to 3 minutes. Workaround: N/A Keywords: 400G, linkup time Discovered in Version: 28.38.1002
-	Description: When upgrading from firmware v28.35.2000 to a newer one, the default port speeds of adapter cards MCX755106AS-HEAT/ MCX755106AC-HEAT will change from InfiniBand to Ethernet. Workaround: To change it back to InfiniBand, please follow the instructions in the ConnectX-7 hardware User Manual . Keywords: Firmware upgrade, port type, MCX755106AS-HEAT/ MCX755106AC-HEAT Discovered in Version: 28.37.1014
3376224	Description: FEC override is not supported when working with NRZ speeds on PAM4 Optical modules. Workaround: N/A Keywords: FEC override, NRZ, PAM4 Discovered in Version: 28.37.1014
3262845	Description: In the ConnectX-7 adapter card with P/N MCX750500B-0D0K, the "Fatal Error Reporting Enable" bit controls both the fatal and the non-fatal ERR MSG forwarding. The "Non-Fatal Error Reporting Enable" bit does not affect the ERR MSG forwarding. Workaround: N/A Keywords: Fatal Error Reporting Enable" bit, PCIe, MCX750500B-0D0K Discovered in Version: 28.36.1010

Internal Ref.	Issue
3329109	Description: MFS1S50-H003E cable supports only HDR rate when used as a split cable.
	Workaround: N/A
	Keywords: HDR, split cable, MFS1S50-H003E
	Discovered in Version: 28.36.1010
2844036	Description: When using the "Dual Write" feature with QP buffer bigger than the maximum outstanding WQEs (128), the data being sent on the standby QP can be corrupted.
	Workaround: Limit the QP buffer size when using "Dual Write" up to 128 WQEs.
	Keywords: Dual-write, QP
	Discovered in Version: 28.36.1010
3178339	Description: PCIe PML1 is disabled.
	Workaround: N/A
	Keywords: PCIe PML1
	Discovered in Version: 28.35.1012
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: 28.34.4000
3140645	Description: 3 rd party servers may hang after warm reboot due to the PCIe switch.
	Workaround: N/A
	Keywords: PCIe, 3rd party servers
	Discovered in Version: 28.34.4000
-	Description: Changing dynamic PCIe link width is not supported.
	Workaround: N/A
	Keywords: PCIe
	Discovered in Version: 28.34.1002
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: 28.34.1002
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: 28.34.1002

Internal Ref.	Issue
3081264	Description: 10G/40G speeds are not supported on MFS1S00-XXXX modules (200G optics) in ConnectX-7 adapter cards.
	Workaround: N/A
	Keywords: Optical cables
	Discovered in Version: 28.33.4030
3070590	Description: PLL modules are not supported in ConnectX-7 ethernet adapter cards.
	Workaround: N/A
	Keywords: PLL
	Discovered in Version: 28.33.4030
3070409	Description: When connecting a ConnectX-7 adapter card to a ConnectX-6 Dx or an NVIDIA Spectrum-3 switch, NRZ speeds are not raised when using 200GbE optical cable.
	Workaround: Configure PHY_FEC_OVERRIDE on the ConnectX-7 side for the requested speed.
	Keywords: Optical cables, NRZ, ConnectX-6 Dx, NVIDIA Spectrum-3, 200GbE optical cable
	Discovered in Version: 28.33.4030
2993531	Description: PML1 is disabled by default. Enabling it might result in server hanging.
	Workaround: N/A
	Keywords: PML1
	Discovered in Version: 28.33.2028
-	Description: Upgrading to firmware 28.33.2028 from any previous Engineering Sample (earlier than version 28.98.2406) must be done before installing WinOF-2 v2.90 driver and requires going through the following steps: 1. Upgrade to 28.98.2406 version while the driver is disabled. 2. Upgrade to firmware version 28.33.2028 (the driver can be enable at this stage).
	Workaround: N/A
	Keywords: Firmware upgrade
	Discovered in Version: 28.33.2028
-	Description: Downgrading from firmware 28.33.2028 to any previous Engineering Sample firmware is not supported.
	Workaround: N/A
	Keywords: Firmware downgrade
	Discovered in Version: 28.33.2028

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 InfiniBand/Ethernet Support



Upon firmware upgrade, after reset, the default port configuration could be changed.

To set the right configuration, run:

```
mlxconfig -d <mst device> s LINK_TYPE_P1=1/2 LINK_TYPE_P2=1/2
```

where:

- LINK_TYPE_P1 - sets the configuring protocol for port 1

- LINK_TYPE_P2 - sets the configuring protocol for port 2
- (1/2) - values used for the different protocols:
- 1 – for InfiniBand
- 2 - for Ethernet

3 NDR / 400GbE / 800GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NDR	800GE	980-91603-00N004	MCA4J80-N004-FTF	NVIDIA Active copper cable, 800(2x400) Gbps to 800(2x400) Gbps, OSFP to OSFP, 4m, fin to flat	Prototype
NDR	800GE	980-91603-00N005	MCA4J80-N005-FTF	NVIDIA Active copper cable, 800(2x400) Gbps to 800(2x400) Gbps, OSFP to OSFP, 5m, fin to flat	Prototype
NDR	800GE	980-91603-00N006	MCA4J80-N006-FTF	NVIDIA Active copper cable, 800(2x400) Gbps to 800(2x400) Gbps, OSFP to OSFP, 6m, fin to flat	Prototype
NDR	800GE	980-91603-00N06A	MCA4J80-N06A-FTF	NVIDIA Active copper cable, 800(2x400) Gbps to 800(2x400) Gbps, OSFP to OSFP, 6.5m, fin to flat	Prototype
NA	400GE	980-91693-F4NS00	MMA1Z00-NS400-T	SINGLE PORT TRANSCEIVER, 400GBPS,400GbE, QSFP112, MPO12 APC, 850NM MMF, UP TO 50M, FLAT TOP	P-Rel
NDR	N/A	980-91601-00N003	MCA4J80-N003-FTF	NVIDIA Active copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 3m, flat to finned	MP
NDR	N/A	980-91948-00N004	MCA7J60-N004	NVIDIA active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 4m	P-Rel
NDR	N/A	980-91949-00N005	MCA7J60-N005	NVIDIA active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 5m	P-Rel
NDR	NA	980-91A0H-00N001	MCP4Y10-N001-FTF	NVIDIA Passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 1m, flat to finned	MP
NDR	NA	980-91A0L-00N00A	MCP4Y10-N00A-FLT	NVIDIA Passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 0.5m, flat top	MP
NDR	N/A	980-9150D-00N004	MCA7J70-N004	NVIDIA active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 4m	P-Rel
NDR	N/A	980-9150E-00N005	MCA7J70-N005	NVIDIA active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 5m	P-Rel
NDR	N/A	980-9176G-00N004	MCA7J75-N004	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 4m	Prototype
NDR	N/A	980-9176H-00N005	MCA7J75-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 5m	Prototype
N/A	400GE	980-91350-00W001	MCP1660-W001E30	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 1m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9135P-00W002	MCP1660-W002E26	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 2m, 26AWG	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	400GE	980-9I35Q-00W003	MCP1660-W003E26	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 3m, 26AWG	EOL [P-Rel]
N/A	400GE	980-9I35R-00W00A	MCP1660-W00AE30	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 0.5m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9I35S-00W01A	MCP1660-W01AE30	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 1.5m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9I35T-00W02A	MCP1660-W02AE26	NVIDIA Direct Attach Copper cable, 400GbE, 400Gb/s, QSFP-DD, 2.5m, 26AWG	EOL [P-Rel]
NDR	N/A	980-9IA0G-00N001	MCP4Y10-N001-FLT	NVIDIA Passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 1m, flat top	MP
NDR	N/A	980-9IA0J-00N002	MCP4Y10-N002-FLT	NVIDIA passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 2m, flat top	MP
NDR	N/A	980-9IA0R-00N01A	MCP4Y10-N01A-FLT	NVIDIA passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 1.5m, flat top	MP
N/A	400GE	980-9I48Y-00W001	MCP7F60-W001R30	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 4x100Gb/s, QSFP-DD to 4xQSFP56, 1m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9I48Z-00W002	MCP7F60-W002R26	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 4x100Gb/s, QSFP-DD to 4xQSFP56, 2m, 26AWG	EOL [P-Rel]
N/A	400GE	980-9I822-00W02A	MCP7F60-W02AR26	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 4x100Gb/s, QSFP-DD to 4xQSFP56, 2.5m, 26AWG	EOL [P-Rel]
N/A	400GE	980-9IA3S-00W001	MCP7H60-W001R30	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 2x200Gb/s, QSFP-DD to 2xQSFP56, 1m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9IA3T-00W002	MCP7H60-W002R26	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 2x200Gb/s, QSFP-DD to 2xQSFP56, 2m, 26AWG	EOL [P-Rel]
N/A	400GE	980-9IA3U-00W003	MCP7H60-W003R26	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 2x200Gb/s, QSFP-DD to 2xQSFP56, 3m, 26AWG	EOL [P-Rel]
N/A	400GE	980-9IA3V-00W01A	MCP7H60-W01AR30	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 2x200Gb/s, QSFP-DD to 2xQSFP56, 1.5m, 30AWG	EOL [P-Rel]
N/A	400GE	980-9IA3W-00W02A	MCP7H60-W02AR26	NVIDIA DAC splitter cable, 400GbE, 400Gb/s to 2x200Gb/s, QSFP-DD to 2xQSFP56, 2.5m, 26AWG	EOL [P-Rel]
NDR	N/A	980-9I432-00N001	MCP7Y00-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 1m	P-Rel
NDR	N/A	980-9I433-00N001	MCP7Y00-N001-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 1m, flat top	P-Rel
NDR	N/A	980-9I924-00N002	MCP7Y00-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 2m	P-Rel
NDR	N/A	980-9I925-00N002	MCP7Y00-N002-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 2m, flat top	P-Rel
NDR	N/A	980-9I92N-00N003	MCP7Y00-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 3m	P-Rel
NDR	N/A	980-9I926-00N01A	MCP7Y00-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 1.5m	P-Rel

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NDR	N/A	980-91927-00N01A	MCP7Y00-N01A-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 1.5m, flat top	P-Rel
NDR	N/A	980-91920-00N02A	MCP7Y00-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xOSFP, 2.5m	P-Rel
NDR	N/A	980-91928-00N001	MCP7Y10-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 1m	P-Rel
NDR	N/A	980-91929-00N002	MCP7Y10-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 2m	P-Rel
NDR	N/A	980-9180P-00N003	MCP7Y10-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 3m	P-Rel
NDR	N/A	980-9180A-00N01A	MCP7Y10-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 1.5m	P-Rel
NDR	N/A	980-9180Q-00N02A	MCP7Y10-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 2.5m	P-Rel
NDR	N/A	980-9180B-00N001	MCP7Y40-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 1m	P-Rel
NDR	N/A	980-9180C-00N002	MCP7Y40-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 2m	P-Rel
NDR	N/A	980-9175R-00N003	MCP7Y40-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 3m	P-Rel
NDR	N/A	980-9175D-00N01A	MCP7Y40-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 1.5m	P-Rel
NDR	N/A	980-9175S-00N02A	MCP7Y40-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 2.5m	P-Rel
NDR	N/A	980-9175E-00N001	MCP7Y50-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 1m	P-Rel
NDR	N/A	980-9175F-00N001	MCP7Y50-N001-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 1m, flat top	P-Rel
NDR	N/A	980-9146G-00N002	MCP7Y50-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 2m	P-Rel
NDR	N/A	980-9146H-00N002	MCP7Y50-N002-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 2m, flat top	P-Rel
NDR	N/A	980-9146T-00N003	MCP7Y50-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 3m	P-Rel

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NDR	N/A	980-9I46I-00N01A	MCP7Y50-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 1.5m	P-Rel
NDR	N/A	980-9I46J-00N01A	MCP7Y50-N01A-FLT	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 1.5m, flat top	P-Rel
NDR	N/A	980-9I46U-00N02A	MCP7Y50-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xOSFP, 2.5m	P-Rel
NDR	N/A	980-9I73U-000003	MFP7E10-N003	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 3m	MP
NDR	N/A	980-9I73V-000005	MFP7E10-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	N/A	980-9I57W-000007	MFP7E10-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	N/A	980-9I57X-00N010	MFP7E10-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	N/A	980-9I57Y-000015	MFP7E10-N015	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 15m	MP
NDR	N/A	980-9I57Z-000020	MFP7E10-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	N/A	980-9I573-00N025	MFP7E10-N025	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 25m	MP
NDR	N/A	980-9I570-00N030	MFP7E10-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	N/A	980-9I570-00N035	MFP7E10-N035	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 35m	MP
NDR	N/A	980-9I570-00N040	MFP7E10-N040	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	N/A	980-9I57Y-00N050	MFP7E10-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	N/A	980-9I571-00N003	MFP7E20-N003	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	N/A	980-9I572-00N005	MFP7E20-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	N/A	980-9I573-00N007	MFP7E20-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	N/A	980-9I554-00N010	MFP7E20-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	N/A	980-9I555-00N015	MFP7E20-N015	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	N/A	980-9I556-00N020	MFP7E20-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	N/A	980-9I557-00N030	MFP7E20-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NDR	N/A	980-9155Z-00N050	MFP7E20-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	N/A	980-91559-00N002	MFP7E30-N002	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 2m	MP
NDR	N/A	980-9155A-00N003	MFP7E30-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 3m	MP
NDR	N/A	980-9155B-00N005	MFP7E30-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	N/A	980-9158C-00N007	MFP7E30-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	N/A	980-9158D-00N010	MFP7E30-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	N/A	980-9158E-00N015	MFP7E30-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 15m	MP
NDR	N/A	980-9158F-00N020	MFP7E30-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	N/A	980-9158G-00N030	MFP7E30-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	N/A	980-91580-00N030	MFP7E30-N040	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	N/A	980-9158H-00N050	MFP7E30-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	N/A	980-91581-00N050	MFP7E30-N060	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 60m	MP
NDR	N/A	980-91582-00N050	MFP7E30-N070	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 70m	MP
NDR	N/A	980-9158I-00N100	MFP7E30-N100	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 100m	MP
NDR	N/A	980-9158J-00N150	MFP7E30-N150	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 150m	MP
NDR	N/A	980-9158K-00N003	MFP7E40-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	N/A	980-9158L-00N005	MFP7E40-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	N/A	980-9158M-00N007	MFP7E40-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	N/A	980-9158N-00N010	MFP7E40-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	N/A	980-9156O-00N015	MFP7E40-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	N/A	980-9156P-00N020	MFP7E40-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	N/A	980-9156Q-00N030	MFP7E40-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NDR	N/A	980-9I56R-000050	MFP7E40-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	N/A	980-9I693-00NS00	MMA1Z00-NS400	NVIDIA single port transceiver, 400Gbps,NDR, QSFP112, MPO12 APC, 850nm MMF, up to 50m, flat top	P-Rel
NDR	N/A	980-9I51A-00NS00	MMA4Z00-NS-FLT*	NVIDIA twin port transceiver, 800Gbps,2xNDR, OSFP, 2xMPO12 APC, 850nm MMF, up to 50m, flat top	MP
NDR	N/A	980-9I51S-00NS00	MMA4Z00-NS400	NVIDIA single port transceiver, 400Gbps,NDR, OSFP, MPO12 APC, 850nm MMF, up to 50m, flat top	MP
NDR	N/A	980-9I51C-00NS00	MMA4Z00-NV4-FLT	NVIDIA twin port transceiver, 800Gbps,4xNVlink4, OSFP, 2xMPO12 APC, 850nm, flat top	Prototype
N/A	400GE	980-9I16Y-00W000	MMS1V00-WM	NVIDIA transceiver, 400GbE, QSFP-DD, MPO, 1310nm, DR4	MP
NDR	N/A	980-9I30F-00NS00	MMS4X00-NL400	NVIDIA single port transceiver, 400Gbps,NDR, OSFP, MPO12 APC, 1310nm SMF, up to 30m, flat top	EOL [Prototype]
NDR	N/A	980-9I30G-00NM00	MMS4X00-NM	NVIDIA twin port transceiver, 800Gbps,2xNDR, OSFP, 2xMPO, 1310nm SMF, up to 500m, finned	MP
NDR	N/A	980-9I30I-00NM00	MMS4X00-NM-FLT	NVIDIA twin port transceiver, 800Gbps,2xNDR, OSFP, 2xMPO12 APC, 1310nm SMF, up to 500m, flat top	Prototype
NDR	N/A	980-9I30H-00NM00	MMS4X00-NS	NVIDIA twin port transceiver, 800Gbps,2xNDR, OSFP, 2xMPO12 APC, 1310nm SMF, up to 100m, finned	MP
NDR	N/A	980-9I30I-00NM00	MMS4X00-NS-FLT	NVIDIA twin port transceiver, 800Gbps,2xNDR, OSFP, 2xMPO12 APC, 1310nm SMF, up to 100m, flat top	MP
NDR	N/A	980-9I31N-00NM00	MMS4X00-NS400	NVIDIA single port transceiver, 400Gbps,NDR, OSFP, MPO12 APC, 1310nm SMF, up to 100m, flat top	MP
NDR	NA	980-9I30L-00N000	MMS4X50-NM	NVIDIA twin port transceiver, 800Gbps, 2xFR4, 2xNDR, OSFP, 2xLC-LC, 1310nm SMF, up to 2km, finned	P-Rel
NDR	NA	980-9IA0H-00N001	MCP4Y10-N001-FTF	NVIDIA Passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 1m, flat to finned	MP
NDR	NA	980-9IA0L-00N00A	MCP4Y10-N00A-FLT	NVIDIA Passive Copper cable, IB twin port NDR, up to 800Gb/s, OSFP, 0.5m, flat top	MP
NDR	NA	980-9I068-00NM00	MMS1X00-NS400	NVIDIA single port transceiver, 400Gbps, NDR, QSFP112, MPO, 1310nm SMF, up to 500m, flat top	Early BOM
NA	400GE	980-9I51S-F4NS00	MMA4Z00-NS400-T	SINGLE PORT TRANSCEIVER, 400GBPS,400GbE, OSFP, MPO12 APC, 850NM MMF, UP TO 50M, FLAT TOP	P-Rel



* MMA4Z00-NS-FLT transceiver is used with the following ConnectX-7 adapter cards **ONLY**: MCX750500B-ODOK / MCX750500C-ODOK / MCX750500B-OD00 / MCX750500C-OD00.

4 HDR / 200GbE Cables

IB Data Rate	Eth Data Rate	NVIDI A P/N	Legacy OPN	Description	LifeCycl e Phase
HDR	NA	980-9I45A-09H035	MFS1500-H035V	Mellanox active optical cable, up to 200Gb/s IB HDR, QSFP56, 35m	MP
HDR	NA	980-9I45G-09H090	MFS1500-H090V	Mellanox active optical cable, up to 200Gb/s IB HDR, QSFP56, 90m	LTB [MP]
HDR	NA	980-9I45O-00H200	MFS1500-H200E	Mellanox active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 200m	EOL [EVT]
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
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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	200GE	980-9198I-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	980-9198J-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	980-9198K-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	980-9198M-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	980-9198O-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	980-91A3P-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	980-91A3X-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	980-91A3Y-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	980-9143Z-00V003	MCP7H70-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 3m, 26AWG	EOL [P-Rel]
N/A	200GE	980-9143O-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	980-91431-00V02A	MCP7H70-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 2.5m, 26AWG	EOL [P-Rel]
HDR	200GE	980-9146K-00H001	MCP7Y60-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9146L-00H002	MCP7Y60-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9193M-00H01A	MCP7Y60-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9193N-00H001	MCP7Y70-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1m, fin to flat	MP

IB Data Rate	Eth Data Rate	NVIDI A P/N	Legacy OPN	Description	LifeCycl e Phase
HDR	200GE	980-9I930-00H002	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	N/A	980-9I41X-00H003	MFA7U10-H003	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 3m	P-Rel
HDR	N/A	980-9I11Z-00H005	MFA7U10-H005	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 5m	P-Rel
HDR	N/A	980-9I111-00H010	MFA7U10-H010	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 10m	P-Rel
HDR	N/A	980-9I113-00H015	MFA7U10-H015	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 15m	P-Rel
HDR	N/A	980-9I115-00H020	MFA7U10-H020	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 20m	P-Rel
HDR	N/A	980-9I117-00H030	MFA7U10-H030	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 30m	P-Rel
HDR	N/A	980-9I124-00H003	MFS1S00-H003E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 3m	EOL [HVM]
HDR	200GE	980-9I457-00H003	MFS1S00-H003V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 3m	MP
HDR	N/A	980-9I45A-00H005	MFS1S00-H005E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 5m	EOL [HVM]
HDR	200GE	980-9I45D-00H005	MFS1S00-H005V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 5m	MP
HDR	N/A	980-9I45G-00H010	MFS1S00-H010E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 10m	EOL [HVM]
HDR	200GE	980-9I45J-00H010	MFS1S00-H010V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 10m	MP
HDR	N/A	980-9I45M-00H015	MFS1S00-H015E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 15m	EOL [HVM]
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	N/A	980-9I45Y-00H030	MFS1S00-H030E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 30m	EOL [HVM]
HDR	200GE	980-9I440-00H030	MFS1S00-H030V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 30m	MP
HDR	N/A	980-9I455-00H050	MFS1S00-H050E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 50m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDI A P/N	Legacy OPN	Description	LifeCycl e Phase
HDR	200GE	980-9I447-00H050	MFS1500-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	N/A	980-9I44G-00H100	MFS1500-H100E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM]
HDR	200GE	980-9I44H-00H100	MFS1500-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	200GE	980-9I44K-00H130	MFS1500-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP
N/A	200GE	980-9I44P-00V003	MFS1500-V003E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 3m	LTB [HVM]
N/A	200GE	980-9I45Q-00V005	MFS1500-V005E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 5m	LTB [HVM]
N/A	200GE	980-9I45R-00V010	MFS1500-V010E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 10m	LTB [HVM]
N/A	200GE	980-9I44S-00V015	MFS1500-V015E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 15m	LTB [HVM]
N/A	200GE	980-9I44T-00V020	MFS1500-V020E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 20m	LTB [HVM]
N/A	200GE	980-9I44U-00V030	MFS1500-V030E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 30m	LTB [HVM]
N/A	200GE	980-9I44V-00V050	MFS1500-V050E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 50m	LTB [HVM]
N/A	200GE	980-9I44W-00V100	MFS1500-V100E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM] [HIBERN/ ATE]
HDR	N/A	980-9I452-00H003	MFS1550-H003E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 3m	EOL [HVM]
HDR	200GE	980-9I445-00H003	MFS1550-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM
HDR	N/A	980-9I956-00H005	MFS1550-H005E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 5m	EOL [HVM]
HDR	200GE	980-9I969-00H005	MFS1550-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM
HDR	N/A	980-9I95A-00H010	MFS1550-H010E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 10m	EOL [HVM]
HDR	200GE	980-9I96D-00H010	MFS1550-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	N/A	980-9I95E-00H015	MFS1550-H015E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 15m	EOL [HVM]
HDR	200GE	980-9I96H-00H015	MFS1550-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	N/A	980-9I95I-00H020	MFS1550-H020E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDI A P/N	Legacy OPN	Description	LifeCycle Phase
HDR	200GE	980-9196L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	N/A	980-9195M-00H030	MFS1S50-H030E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	200GE	980-9196P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
N/A	200GE	980-9195Q-00V003	MFS1S50-V003E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 3m	EOL [HVM]
N/A	200GE	980-9196R-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	980-9196S-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	980-9196T-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	980-9195U-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	980-9195V-00V030	MFS1S50-V030E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 30m	EOL [HVM]
HDR	N/A	980-9117S-00HS00	MMA1T00-HS	NVIDIA transceiver, HDR, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
N/A	200GE	980-9120T-00V000	MMA1T00-VS	NVIDIA transceiver, 200GbE, up to 200Gb/s, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
HDR	N/A	980-91055-00H000	MMS1W50-HM	NVIDIA transceiver, IB HDR, up to 200Gb/s, QSFP56, LC-LC, 1310nm, FR4	MP
HDR	N/A	980-9141X-00H003	MFA7U10-H003	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 3m	P-Rel
HDR	N/A	980-9111Z-00H005	MFA7U10-H005	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 5m	P-Rel
HDR	N/A	980-91111-00H010	MFA7U10-H010	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 10m	P-Rel
HDR	N/A	980-91113-00H015	MFA7U10-H015	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 15m	P-Rel
HDR	N/A	980-91115-00H020	MFA7U10-H020	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 20m	P-Rel
HDR	N/A	980-91117-00H030	MFA7U10-H030	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 30m	P-Rel
HDR	NA	980-9145E-09H070	MFS1S00-H070V	NVIDIA active optical cable, up to 200Gb/s IB HDR, QSFP56, LSZH, 70m	MP

IB Data Rate	Eth Data Rate	NVIDI A P/N	Legacy OPN	Description	LifeCycl e Phase
HDR	NA	980-9I41Y-00H003	MFA7U10-H003-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 3m, flat top	P-Rel
HDR	NA	980-9I110-00H005	MFA7U10-H005-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 5m, flat top	P-Rel
HDR	NA	980-9I112-00H010	MFA7U10-H010-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 10m, flat top	P-Rel
HDR	NA	980-9I114-00H015	MFA7U10-H015-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 15m, flat top	P-Rel
HDR	NA	980-9I116-00H020	MFA7U10-H020-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 20m, flat top	P-Rel
HDR	NA	980-9I118-00H030	MFA7U10-H030-FLT	NVIDIA AOC splitter, IB twin port HDR, 400Gb/s to 2x200Gb/s, OSFP to 2xQSFP56, 30m, flat top	P-Rel

5 HDR100 Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
HDR100	NA	980-9I41Z-00H003	MFA7U40-H003	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 3m, fin to flat	P-Rel
HDR100	NA	980-9I111-00H005	MFA7U40-H005	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 5m, fin to flat	P-Rel
HDR100	NA	980-9I113-00H010	MFA7U40-H010	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 10m, fin to flat	P-Rel
HDR100	NA	980-9I115-00H015	MFA7U40-H015	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 15m, fin to flat	P-Rel
HDR100	NA	980-9I117-00H020	MFA7U40-H020	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 20m, fin to flat	P-Rel
HDR100	NA	980-9I119-00H030	MFA7U40-H030	NVIDIA AOC splitter, 200(2x100)Gbps to 2x100Gbps, OSFP to 2xQSFP56, 30m, fin to flat	P-Rel

6 EDR / 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	100GE	980-9190Z-00C000	FTLC9152R GPL	100Gb/s Transceiver, QSFP28, LC-LC, 850nm SWDM4 up to 100m Over Multi-Mode Fiber	EOL [MP]
N/A	100GE	980-91620-00C001	MCP1600-C001	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1m 30AWG	EOL [HVM]
N/A	100GE	980-91620-00C001	MCP1600-C001E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9162S-00C001	MCP1600-C001LZ	NVIDIA Passive Copper Cable, ETH 100GbE, 100Gb/s, QSFP, 1m, LSZH, 30AWG	EOL [MP]
N/A	100GE	980-91621-00C002	MCP1600-C002	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2m 30AWG	EOL [HVM]
N/A	100GE	980-91622-00C002	MCP1600-C002E26N	NVIDIA® Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 26AWG, CA-N	Preliminary
N/A	100GE	980-9162V-00C002	MCP1600-C002E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9162X-00C003	MCP1600-C003	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3m 28AWG	EOL [HVM]
N/A	100GE	980-9162Z-00C003	MCP1600-C003E26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-91620-00C003	MCP1600-C003E30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-91622-00C003	MCP1600-C003LZ	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, LSZH, 26AWG	EOL [MP]
N/A	100GE	980-91625-00C005	MCP1600-C005E26L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 26AWG, CA-L	HVM
N/A	100GE	980-91627-00C00A	MCP1600-C00AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-91629-00C00B	MCP1600-C00BE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.75m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9162B-00C01A	MCP1600-C01A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1.5m 30AWG	EOL [HVM]
N/A	100GE	980-9162C-00C01A	MCP1600-C01AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9162G-00C02A	MCP1600-C02A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2.5m 30AWG	EOL [HVM]
N/A	100GE	980-9162H-00C02A	MCP1600-C02AE26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9162I-00C02A	MCP1600-C02AE30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-9162M-00C03A	MCP1600-C03A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3.5m 26AWG	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
EDR	100GE	980-9162P-00C001	MCP1600-E001	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m 30AWG	EOL [HVM]
EDR	N/A	980-9162Q-00E001	MCP1600-E001E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1m, Black, 30AWG	HVM
EDR	100GE	980-9162S-00C002	MCP1600-E002	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2m 28AWG	EOL [HVM]
EDR	N/A	980-9162T-00E002	MCP1600-E002E26	NVIDIA® Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 26AWG	Preliminary
EDR	N/A	980-9162U-00E002	MCP1600-E002E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 30AWG	HVM
EDR	100GE	980-9162V-00C003	MCP1600-E003	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m 26AWG	EOL [HVM]
EDR	N/A	980-9162W-00E003	MCP1600-E003E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 3m, Black, 26AWG	HVM
EDR	N/A	980-9162Y-00E004	MCP1600-E004E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 4m, Black, 26AWG	EOL [HVM]
EDR	N/A	980-9162Z-00E005	MCP1600-E005E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 5m, Black, 26AWG	HVM
EDR	N/A	980-91620-00E00A	MCP1600-E00A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 0.5m 30AWG	EOL [HVM]
EDR	N/A	980-91621-00E00A	MCP1600-E00AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.5m, Black, 30AWG	EOL [HVM]
EDR	N/A	980-91622-00E00B	MCP1600-E00BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.75m, Black, 30AWG	EOL [HVM] [HIBERN/ATE]
EDR	100GE	980-91623-00C01A	MCP1600-E01A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1.5m 30AWG	EOL [HVM]
EDR	N/A	980-91624-00E01A	MCP1600-E01AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.5m, Black, 30AWG	HVM
EDR	N/A	980-91625-00E01C	MCP1600-E01BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.25m, Black, 30AWG	EOL [HVM] [HIBERN/ATE]
EDR	100GE	980-91626-00C02A	MCP1600-E02A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2.5m 26AWG	EOL [HVM]
EDR	N/A	980-91627-00E02A	MCP1600-E02AE26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2.5m, Black, 26AWG	HVM
N/A	100GE	980-91645-00C001	MCP7F00-A001R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 1m, 30AWG	EOL [HVM]
N/A	100GE	980-91486-00C001	MCP7F00-A001R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9148A-00C002	MCP7F00-A002R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 2m, 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
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]
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	980-9I61C-00C005	MCP7H00-G00000	NVIDIA® passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 5m, Colored, 26AWG, CA-L	Preliminary
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	980-9I99K-00C002	MCP7H00-G002R26N	NVIDIA® passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2m, Colored, 26AWG, CA-N	Preliminary
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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	100GE	980-9139R-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	980-9199S-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	980-9199X-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	980-91994-00C02A	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	980-91395-00C02A	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	980-9113S-00C003	MFA1A00-C003	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 3m	HVM
N/A	100GE	980-9113X-00C005	MFA1A00-C005	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 5m	HVM
N/A	100GE	980-91134-00C010	MFA1A00-C010	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 10m	HVM
N/A	100GE	980-9113A-00C015	MFA1A00-C015	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 15m	HVM
N/A	100GE	980-9113F-00C020	MFA1A00-C020	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 20m	HVM
N/A	100GE	980-9113N-00C030	MFA1A00-C030	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 30m	HVM
N/A	100GE	980-91130-00C050	MFA1A00-C050	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 50m	HVM
N/A	100GE	980-9113B-00C100	MFA1A00-C100	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]
EDR	N/A	980-9113D-00E001	MFA1A00-E001	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m	HVM
EDR	N/A	980-9113F-00E003	MFA1A00-E003	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m	HVM
EDR	N/A	980-9113J-00E005	MFA1A00-E005	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 5m	HVM
EDR	N/A	980-9113M-00E007	MFA1A00-E007	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 7m	LTB [HVM]
EDR	N/A	980-9113O-00E010	MFA1A00-E010	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 10m	HVM
EDR	N/A	980-9113R-00E010	MFA1A00-E010_FF	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 10m	EOL [HVM] [HIBERN/ATE]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
EDR	N/A	980-9113S-00E015	MFA1A00-E015	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 15m	HVM
EDR	N/A	980-9113V-00E020	MFA1A00-E020	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 20m	HVM
EDR	N/A	980-9113Y-00E030	MFA1A00-E030	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 30m	HVM
EDR	N/A	980-91133-00E050	MFA1A00-E050	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 50m	HVM
EDR	N/A	980-91135-00E100	MFA1A00-E100	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]
N/A	100GE	980-9137H-00C003	MFA7A20-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3m	EOL [HVM]
N/A	100GE	980-9137I-00C005	MFA7A20-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 5m	EOL [HVM]
N/A	100GE	980-9140J-00C010	MFA7A20-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 10m	EOL [HVM]
N/A	100GE	980-9140K-00C020	MFA7A20-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 20m	EOL [HVM]
N/A	100GE	980-9140L-00C002	MFA7A20-C02A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 2.5m	Preliminary
N/A	100GE	980-9140M-00C003	MFA7A20-C03A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3.5m	Preliminary
N/A	100GE	980-9140N-00C003	MFA7A50-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m	EOL [HVM]
N/A	100GE	980-9140O-00C005	MFA7A50-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m	EOL [HVM]
N/A	100GE	980-9149P-00C010	MFA7A50-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 10m	EOL [HVM]
N/A	100GE	980-9149Q-00C015	MFA7A50-C015	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 15m	EOL [HVM]
N/A	100GE	980-9149R-00C020	MFA7A50-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 20m	EOL [HVM]
N/A	100GE	980-9149S-00C030	MFA7A50-C030	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 30m	EOL [HVM]
N/A	100GE	980-91149-00CS00	MMA1B00-C100D	NVIDIA transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI	HVM
N/A	100GE	980-9117D-00CS00	MMA1B00-C100T	NVIDIA® transceiver, 100GbE, QSFP28, MPO, 850nm, up to 100m, OTU4	Preliminary
EDR	N/A	980-9117L-00E000	MMA1B00-E100	NVIDIA transceiver, IB EDR, up to 100Gb/s, QSFP28, MPO, 850nm, SR4, up to 100m	HVM
N/A	100GE	980-9117P-00CR00	MMA1L10-CR	NVIDIA optical transceiver, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, LR4 up to 10km	HVM
N/A	100GE	980-9117Q-00CM00	MMA1L30-CM	NVIDIA optical module, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, CWDM4, up to 2km	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
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
N/A	100GE	980-9I53X-00C000	SPQ-CE-ER-CDFL-M	40km 100G QSFP28 ER Optical Transceiver	P-Rel
N/A	100GE	980-9I63F-00CM00	X65406	NVIDIA® optical module, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, CWDM4, up to 2km	Preliminary



EDR links raise with RS-FEC.

7 FDR / 56GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
FDR	56GE	980-9I679-00L004	MC2207126-004	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 4m	EOL [HVM]
FDR	56GE	980-9I67A-00L003	MC2207128-003	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I67C-00L02A	MC2207128-0A2	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2.5m	EOL [MP]
FDR	56GE	980-9I67D-00L001	MC2207130-001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1m	EOL [HVM]
FDR	56GE	980-9I67E-00L002	MC2207130-002	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2m	EOL [HVM]
FDR	56GE	980-9I67F-00L00A	MC2207130-00A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 0.5m	EOL [HVM]
FDR	56GE	980-9I67G-00L01A	MC2207130-0A1	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1.5m	EOL [HVM]
FDR	56GE	980-9I15U-00L003	MC220731V-003	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I15V-00L005	MC220731V-005	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 5m	EOL [HVM]
FDR	56GE	980-9I15W-00L010	MC220731V-010	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 10m	EOL [HVM]
FDR	56GE	980-9I15X-00L015	MC220731V-015	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 15m	EOL [HVM]
FDR	56GE	980-9I15Y-00L020	MC220731V-020	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 20m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
FDR	56GE	980-9I15Z-00L025	MC220731V-025	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 25m	EOL [HVM]
FDR	56GE	980-9I150-00L030	MC220731V-030	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 30m	EOL [HVM]
FDR	56GE	980-9I151-00L040	MC220731V-040	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 40m	EOL [HVM] [HIBERN/ATE]
FDR	56GE	980-9I152-00L050	MC220731V-050	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 50m	EOL [HVM]
FDR	56GE	980-9I153-00L075	MC220731V-075	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 75m	EOL [HVM]
FDR	56GE	980-9I154-00L100	MC220731V-100	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 100m	EOL [HVM]
FDR	56GE	980-9I675-00L001	MCP170L-F001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 1m	EOL [P-Rel]
FDR	56GE	980-9I678-00L00A	MCP170L-F00A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 0.5m	EOL [P-Rel]
FDR	56GE	980-9I679-00L01A	MCP170L-F01A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 1.5m	EOL [P-Rel] [HIBERN/ATE]

8 50GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	50GE	980-9I790-00G000	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]

9 40GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
NA	40GE	980-9I72H-00B010	MCA7J70-C003	NVIDIA passive fiber hybrid cable, MPO to 8xLC, 10m	Preliminary

10 25GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	25GE	980-9I78I-00A000	MAM1Q00A-QSA28	NVIDIA cable module, ETH 25GbE, 100Gb/s to 25Gb/s, QSFP28 to SFP28	HVM
N/A	25GE	980-9I63J-00A001	MCP2M00-A001	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, 30AWG	EOL [HVM]
N/A	25GE	980-9I63L-00A001	MCP2M00-A001E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, Black, 30AWG, CA-N	LTB [HVM]
N/A	25GE	980-9I63M-00A002	MCP2M00-A002	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, 30AWG	EOL [HVM]
N/A	25GE	980-9I63N-00A002	MCP2M00-A002E26N	NVIDIA® Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 26AWG, CA-N	Preliminary
N/A	25GE	980-9I63O-00A002	MCP2M00-A002E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 30AWG, CA-N	LTB [HVM]
N/A	25GE	980-9I63R-00A003	MCP2M00-A003E26N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
N/A	25GE	980-9I63S-00A003	MCP2M00-A003E30L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 30AWG, CA-L	LTB [HVM]
N/A	25GE	980-9I63T-00A004	MCP2M00-A004E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 4m, Black, 26AWG, CA-L	EOL [HVM]
N/A	25GE	980-9I63V-00A005	MCP2M00-A005E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 5m, Black, 26AWG, CA-L	LTB [HVM]
N/A	25GE	980-9I63W-00A00A	MCP2M00-A00A	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, 30AWG	EOL [HVM]
N/A	25GE	980-9I63X-00A00A	MCP2M00-A00AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	25GE	980-9I63Z-00A01A	MCP2M00-A01AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1.5m, Black, 30AWG, CA-N	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	25GE	980-9I631-00A02A	MCP2M00-A02AE26N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
N/A	25GE	980-9I632-00A02A	MCP2M00-A02AE30L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 30AWG, CA-L	LTB [HVM]
N/A	25GE	980-9IA1T-00A003	MFA2P10-A003	NVIDIA active optical cable 25GbE, SFP28, 3m	EOL [HVM]
N/A	25GE	980-9I53W-00A005	MFA2P10-A005	NVIDIA active optical cable 25GbE, SFP28, 5m	EOL [HVM]
N/A	25GE	980-9I53Z-00A007	MFA2P10-A007	NVIDIA active optical cable 25GbE, SFP28, 7m	EOL [HVM]
N/A	25GE	980-9I532-00A010	MFA2P10-A010	NVIDIA active optical cable 25GbE, SFP28, 10m	EOL [HVM]
N/A	25GE	980-9I535-00A015	MFA2P10-A015	NVIDIA active optical cable 25GbE, SFP28, 15m	EOL [HVM]
N/A	25GE	980-9I536-00A020	MFA2P10-A020	NVIDIA active optical cable 25GbE, SFP28, 20m	EOL [HVM]
N/A	25GE	980-9I539-00A030	MFA2P10-A030	NVIDIA active optical cable 25GbE, SFP28, 30m	EOL [HVM]
N/A	25GE	980-9I53A-00A050	MFA2P10-A050	NVIDIA active optical cable 25GbE, SFP28, 50m	EOL [HVM]
N/A	25GE	980-9I094-00AR00	MMA2L20-AR	NVIDIA optical transceiver, 25GbE, 25Gb/s, SFP28, LC-LC, 1310nm, LR up to 10km	MP
N/A	25GE	980-9I595-00AM00	MMA2P00-AS	NVIDIA transceiver, 25GbE, SFP28, LC-LC, 850nm, SR	HVM
N/A	25GE	980-9I34B-00AS00	MMA2P00-AS-SP	NVIDIA transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 100m, single package	EOL [HVM]
N/A	25GE	980-9I34D-00AS00	MMA2P00-AS_FF	NVIDIA transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 100m	EOL [HVM]

11 10GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	10GE	980-9I71G-00J000	MAM1Q00A-QSA	NVIDIA cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	HVM
N/A	10GE	980-9I65P-00J005	MC230912-4-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
N/A	10GE	980-9I65Q-00J007	MC230912-4-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	10GE	980-9I65R-00J001	MC230913-0-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
N/A	10GE	980-9I65S-00J002	MC230913-0-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I65T-00J003	MC230913-0-003	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
N/A	10GE	980-9I65U-00J00A	MC230913-0-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9I682-00J004	MC330912-4-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
N/A	10GE	980-9I683-00J005	MC330912-4-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
N/A	10GE	980-9I684-00J006	MC330912-4-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
N/A	10GE	980-9I685-00J007	MC330912-4-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
N/A	10GE	980-9I686-00J001	MC330913-0-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
N/A	10GE	980-9I688-00J002	MC330913-0-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I68B-00J003	MC330913-0-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
N/A	10GE	980-9I68F-00J00A	MC330913-0-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
N/A	10GE	980-9I68G-00J01A	MC330913-0-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
N/A	10GE	980-9I68H-00J02A	MC330913-0-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
N/A	10GE	980-9I68B-00J002	MCP2100-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9I68C-00J003	MCP2100-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9I68F-00J002	MCP2104-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9I68G-00J003	MCP2104-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9I68H-00J01A	MCP2104-X01AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m, Black Pulltab, Connector Label	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	10GE	980-9I68I-0 0J02A	MCP2104- X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	MFM1T02A -LR-F	MFM1T02 A-LR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 1310nm, LR up to 10km	HVM
N/A	10GE	MFM1T02A -SR-F	MFM1T02 A-SR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM
N/A	10GE	MFM1T02A -SR-P	MFM1T02 A-SR-P	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM

12 1GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy OPN	Description	LifeCycle Phase
N/A	1GE	980-9I270-0 0IM00	MC3208011 -SX	NVIDIA Optical module, ETH 1GbE, 1Gb/s, SFP, LC-LC, SX 850nm, up to 500m	EOL [P-Rel]
N/A	1GE	980-9I251-0 0IS00	MC3208411 -T	NVIDIA module, ETH 1GbE, 1Gb/s, SFP, Base-T, up to 100m	HVM

13 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.

Data Rate	Cable OPN	Description
100GE	FTLC1151RDP L	TRANSCIEVER 100GBE QSFP LR4
100GE	AFBR-89CDDZ	TRANSCIEVER 100GBE QSFP SR4
100GE	10137498-201 0LF	PASSIVE COPPER CABLE ETH 100GBE QSFP 1M
100GE	10137498-200 5LF	HPE 100G 2M COPPER CABLE

Data Rate	Cable OPN	Description
100GE	10137499-4050LF	PASSIVE COPPER CABLE ETH 100GBE QSFP 5M
FDR	FTL414QB2N-E5	TRANSCIEVER FDR QSFP SR4
100GE	CAB-Q-Q-100G-3M	PASSIVE COPPER CABLE ETH 100GBE QSFP 3M
10GE	FTLX8570D3BCL-C2	TRANSCIEVER 10GBE SFP SR
40GE	L45593-D118-B50	PASSIVE COPPER CABLE ETH 40GBE QSFP 3M
100GE	FCBN425QE1C10-C1	AOC 100GBE QSFP 1M
40GE	QSFP-H40G-CU1M	PASSIVE COPPER CABLE ETH 40GBE QSFP 1M
40GE	QSFP-40G-SR-BD	TRANSCIEVER 40GBE QSFP BI DIRECTIONAL (BIDIR)
100GE	SO-QSFP28-LR4	TRANSCIEVER 100GBE QSFP LR4
100GE	QSFP-40/100-SRBD	TRANSCIEVER 100GBE QSFP BI DIRECTIONAL (BIDIR)
100GE	FTLC9152RGPL	TRANSCEIVER 100GBE QSFP SWDM4
10GE	QSFP-4SFP10G-CU5M	QSFP-4SFP10G-CU5M
100GE	TR-FC13L-N00	100G QSFP28 OPTICAL TRANSCEIVERS QSFP28 LR4
40GE	AFBR-7QER15Z-CS1	CISCO 40GE 15M AOC
10GE---100GE	FCBN425QE1C30-C1	CISCO FINISAR CABLE ASSY QSFP28 M-M 30M
40GE	QAOC-40G4F1A25-C	CISCO-DELTA 25M 40GBE AOC
40GE	QSFP-H40G-CU1M	QSFP-H40G-CU1M
25GE	SFP-H25G-CU2M	15M (49FT) AVAGO AFBR-7QER15Z COMPATIBLE 40G QSFP+ ACTIVE OPTICAL CABLE
100GE	NDAAFJ-C102	CISCO AMPHENOL SF-NDAAFJ100G-005M
100GE	TR-VC13T-N00	INNOLIGHT 100G OPTICAL TRANSCEIVER QSFP28 PSM4 TR-VC13T-N00,UP TO 2KM TRANSMISSI
100GE	FCBR425QF1C01	CBL ASSY 4X25G ETH QSFP 1M
100GE	FTLC9551REPM	100M PARALLEL MMF 100G QSFP28 OPTICAL TRANSCEIVER
100GE	RTXM420-550	MPO TYPE 210 M OM3 300 M OM4

Data Rate	Cable OPN	Description
100GE	RTXM420-551	100M PARALLEL MMF 100G QSFP28 OPTICAL TRANSCEIVER
100GE	FTLC9551REP M-H1	QSFP28 ACTIVE OPTICAL CABLE HIGH-SPEED INPUT-OUTPUT CONNECTORS 100G ETHERNET OFNP 1 METER
100GE	FOQQD33P00 001	QSFP28 CWDM4, SINGLE RATE PULL TAB 100GBE 2KM OPTICAL TRANSCEIVER
100GE	LQ210CR-CPA2	QSFP28 CWDM4, SINGLE RATE PULL TAB 100GBE 2KM OPTICAL TRANSCEIVER
40GE	FTL410QD2C-HZ	40BASE-SR4/10GBASE-SR 300M QSFP+ GEN2 OPTICAL TRANSCEIVER MODULE
100GE	FCBN425QE1C 01	100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE
100GE	AFBR-89CDDZ -JU1	100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE
40GE	QSFP-40G-SRBD	ARISTA NETWORKS QSFP-40G-SRBD COMPATIBLE 40GBASE-SR BI-DIRECTIONAL QSFP+ OPTICAL TRANSCEIVER MODULE FOR DUPLEX MMF
100GE	AFBR-89CEDZ	100GBE QSFP28 PLUGGABLE, PARALLEL FIBER-OPTICS TRANSCEIVER MODULE, EXTENDED REACH 300M
100GE	FTLC9555REP M3-E6	FIBER OPTIC TRANSMITTERS, RECEIVERS, TRANSCEIVERS XCVR, QSFP28, 100M, 100GBASE-SR4
100GE	FCBR425QF1C 03	4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
100GE	FOQQD33P00 009	CABLE ASSEMBLY, QSFP TO QSFP, OM 3 PLENUM, ACTIVE OPTICAL, 100GBPS, 2M
100GE	FOQQD33P00 010	CABLE ASSEMBLY, QSFP TO QSFP, OM 3 PLENUM, ACTIVE OPTICAL, 100GBPS, 3M
100GE	NDAAFF-C403	CABLE ASSEMBLY UL 20276 3M 30AWG QSFP+ TO QSFP+ 38 TO 38 POS M-M BAG
100GE	NDAAFJ-M203	QSFP28GB 26AWG, 3METER PASSIVE
100GE	NDARHF-M206	QSFP28 TO 2X QSFP28 COPPER SPLITTER CABLE ASSEMBLIES 100G/200G, HIGH SPEED INPUT OUTPUT CONNECTORS, QSFP28GB 30AWG, 2.5METER PASSIVE.
100GE	AQPA9N09ADL N0817	ACTIVE OPTICAL CABLE 100G QSFP28
100GE	AQPA9N12ADL N0778	QSFP28 AOC 100G MMF 850NM TRANSCEIVER
100GE	AQPA9N35ADL N0817	ACTIVE OPTICAL CABLE 100G QSFP28
100GE	AQPMANQ4ED MA0784	QSFP28 100G SMF 500M TRANSCEIVER
100GE	AQPMANQ4ED MA0871	QSFP28 100G SMF 500M TRANSCEIVER
40GE	AFBR-79EBPZ-HP8	40G BIDIRECTIONAL MMF QSFP+ TRANSCEIVER MODULE
100GE	AFBR-89CDDZ -CS1	AVAGO AFBR-89CDDZ COMPATIBLE 100GBASE-SR4 QSFP28 850NM

Data Rate	Cable OPN	Description
40GE	NDCCGJ-C402	15M (49FT) AVAGO AFBR-7QER15Z COMPATIBLE 40G QSFP+ ACTIVE OPTICAL CABLE
100GE	DHZZjj-KCCC-030	200G QSFP56 TO 2X100G QSFP56 DIRECT ATTACH CABLE
40GE	L45593-D118-D30	PASSIVE COPPER CABLE ETH 40GBE QSFP 3M
100GE	SFBR-89BDDZ-CS2	100G AOM BIDI
100GE	SFBR-89BDDZ-CS4	100G AOM BIDI
100GE	SQF1002L4LN C101P	CISCO-SUMITOMO 100GBE AOM
100GE	ET7402-SR4	100G QSFP28 OPTICAL TRANSCEIVER
100GE	FCBN425QE2C05	4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
100GE	FCBR425QE1C10-HP	FIBRE OPTIC CABLE ASSEMBLIES 4X25G, FULL-DUPLEX, ETHERNET, QSFP CABLE ENDS
40GE	DQF8501-4C01	QSFP+ SR4 4X10.3125GB/S QSFP+ SR4 ACTIVE OPTICAL CABLE
100GE	DQF8503-4C01	4X25.78GB/S QSFP28 ACTIVE OPTICAL CABLE
100GE	DQF8503-4C05	4X25.78GB/S QSFP28 ACTIVE OPTICAL CABLE
100GE	10137628-4050LF	HPE 100GBE QSFP28 DAC 5M CABLE - 100GB/S DIRECT ATTACH COPPER QUAD
200GE	R5Z83A	200GB QSFP56 MPO SR4 100M
100GE	RTXM420-005	QSFP28 100G
400GE	C-DQ8FNM005-N00	MELLANOX SELECT 400GBE QSFP-DD AOC 5M
400GE	C-DQ8FNM050-N00	MELLANOX SELECT 400GBE QSFP-DD AOC 5M
100GE	TF-FC010-N00	100G OPTICAL TRANSCEIVER QSFP28 PARALLEL ACTIVE OPTICAL CABLE
40GE	606770005	INTEL QSFP 40GBASE CR4
400GE	QDD-400G-SR8	400GBASE-SR8 QSFP-DD PAM4 850NM 100M DOM MTP/MPO-16 MMF OPTICAL TRANSCEIVER MODULE
400GE	DMQ8811A-EC05	QSFP-DD AOC 100M
100GE	DQF8503-4C23	QSFP28 AOCS 7M
100GE	TR-ZC13T-N00	QSFP28 FR1 (PAM4)
100GE	1002971151	ZQSFP+-TO-ZQSFP+ CABLE ASSEMBLY, 30 AWG, 1.50M LENGTH
100GE	1003461071	ZQSFP+TO 2ZQSFP+50G CBL ASSY 0.7

Data Rate	Cable OPN	Description
100GE	1003461076	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS
100GE	1003461101	ZQSFP+ TO 2ZQSFP+ 50G CBL
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
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
100GE	1003463301	ZQSFP+-TO-2 ZQSFP+ PASSIVE CABLE ASSEMBLY, 100 GBPS-TO-(2) 50 GBPS, 26 AWG, 3.0M LENGTH
100GE	1AT-3Q4M01X X-12A	QSFP28 100G ACTIVE CABLE/MODULE
100GE	1AT-3Q3Q921 1-01A	100G QSFP28 CWD4 PN: 1AT-3Q3Q9211-01A TRANSCEIVER MODULE
100GE	ATRQ-A007	QSFP28 AOC 7M
100GE	DQF8503-4C0 7	7M 100GB/S QSFP28 ACTIVE OPTICAL CABLES AOC DQF8503-4C10 100GBE
100GE	DQF8503-4C1 0	10M 100GB/S QSFP28 ACTIVE OPTICAL CABLES AOC DQF8503-4C10 100GBE
100GE	FCBN425QE2C 07	100GBASE-AOC QSFP28 TO QSFP28 DIRECT ATTACH CABLE, 7M
100GE	FCBN425QE2C 10	100GBASE-AOC QSFP28 TO QSFP28 DIRECT ATTACH CABLE, 10M
40GE	FTL4C1QE1C	40G LR4 QSFP+, UP TO 10KM SINGLE MODE TRANSCEIVER
200GE	L6WQF102- SD-R	3M DAC, 200G TO 2X100G
100GE	NDARXJ-B303	3M DAC, 200G TO 2X100G
100GE	RTXM420-010	QSFP28 AOC 10M
100GE	SPQCEERCDFL M	100G ER QSFP28, UP TO 40KM SINGLE MODE TRANSCEIVER
100GE	SPQCELRCDFB	100G LR4 QSFP28, UP TO 10KM SINGLE MODE TRANSCEIVER
100GE	QSFP-SR4-AJ	
100GE	AQPLBND3ED LA1457	100G FR1
100GE	EOLQ-131HG- O-026	100G FR1
200GE	MFS1S00- H030V	200G AOC
200GE	MFS1S00- H003V	200G AOC
100GE	SPTSLP3SLCD F	100G DR1
200GE	R5Z84A	200GB QSFP56 LC CWD4 FR4 XCVR
100GE	QSFP28-FR-C	QSFP28, FR, 1310NM, 100G, 2KM, SMF, LC, DDM

Data Rate	Cable OPN	Description
100GE	QSFP28-SR4-AJ	QSFP28, SR4, 850NM, 100G, 100M, MMF, MPO12, C-TEMP
100GE	SPTSBP4LLCDF	QSFP28 100G LR4
100GE	JNP-QSFP-100G-LR	100GBASE LR4 QSFP28 TRANSCEIVER, LC, 10KM OVER SMF, JNP-QSFP-100G-LR4-LU
40GE	JNP-QSFP-40G-LR4	40GBASE-LR4 QSFP+ 1310NM 10KM LC OVER SMF, JNP-QSFP-40G-LR4-LU
100GE	QSFP-100G-CWDM4	100GBASE CWDM4 QSFP TRANSCEIVER, LC, 2KM OVER SMF, JNP-QSFP-100G-CWDM4-LU
100GE	QSFP-100G-SR4-I	100GBASE-SR4 QSFP, MPO, 100M OVER OM4 MMF INDUSTRIAL TEMPERATURE RANGE, QSFP-100G-SR4-I-LU
100GE	QSFP-100G-SR4-LU	100GBASE-SR4 QSFP, QSFP-100G-SR4-LU
100GE	SPTSBP4LLCDF	QSFP28 100G LR4
400GE	SPTSHP2PMCB E	400GBASE-DR4 , 500M
100GE	QSFP-100G-DR-LU	100GBASE DR QSFP TRANSCEIVER, LC, 500M OVER SMF, QSFP-100G-DR-S-LU
200GE	RTXM500-905	400G-2X200G SPLIT 5M AOC CABLES (400G QSFP-DD BREAKING OUT TO 2X 200G QSFP56)
200GE	DEF8504-2C06-MB3	QSFP-DD ACTIVE OPTICAL CABLE (AOC) TO 2XQSFP-28 ACTIVE OPTICAL CABLE BREAK-OUT
100GE	NDYSV2-0003	400G TO 4X 100G QSFP DD - 4X QSFP56 CABLE ASSEMBLY, LINEAR ACTIVE, 30AWG, 3M, 56G / LANE, JACKET
100GE	NDYSV2-0008	400G TO 4X 100G QSFP DD - 4X QSFP CABLE ASSEMBLY, LINEAR ACTIVE, 30AWG, 2.5M, 56G / LANE, JACKET
200GE	NDYRYH-0003	400GGTO 2X200FG QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 56G / LANE, JACKET
200GE	DME8811-EC07	400G-2X200G SPLIT 7M AOC CABLES (400G QSFP-DD BREAKING OUT TO 2X 200G QSFP56)
100GE	NDYSYF-0001	400G TO 4X100G QSFP DD - 4X QSFP56 CABLE ASSEMBLY, PASSIVE, 30AWG, 1M
200GE	NDYRYF-0001	400G TO 2X200G, QSFP DD - 2X QSFP56 CABLE ASSEMBLY, PASSIVE, 30AWG, 1M
200GE	NDYRYH-0002	400G TO 2X200G, QSFP DD - 2X QSFP56 CABLE ASSEMBLY, PASSIVE, 27AWG, 2M
100GE	TR-ZC13H-NML	100G QSFP28 DR1 TRANSCEIVER
100GE	FCBN425QE2C02	HPE (FINISAR PN FCBN425QE2C02) 100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE, 2M
100GE	S2T38A	HPE (FINISAR PN FCBN425QN2C05) 100G QSFP28 5M E-TEMP AOC
100GE	DQF8503-4C03	QSFP28 100G ACTIVE OPTICAL CABLE (AOC),3M, MM

Data Rate	Cable OPN	Description
100GE	FCBN425QF1C01	QSFP28 100G ACTIVE OPTICAL CABLE (AOC), 1M, MM
100GE	FCBN425QE2C30	HPE (FINISAR PN FCBN425QE2C30) 100G QUADWIRE QSFP28 ACTIVE OPTICAL CABLE, 30M
200GE	NDYRFH-0003	AMPHENOL QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 28G / LANE, JACKET
100GE	NDAAFF-0003	AMPHENOL 100G, QSFP28 CABLE ASSEMBLY, PASSIVE, 30AWG, 3M, 28G / LANE, JACKET
200GE	R8M49A	HPE 400GBE TO 2X200G QSFP-DD TO 2XQSFP56 5M ACTIVE OPTICAL CABLE
200GE	R8M50A	HPE 400GBE TO 2X200G, QSFP-DD TO 2XQSFP56 15M ACTIVE OPTICAL CABLE
200GE	NDAAXG-0002	AMPHENOL 200G QSFP CABLE ASSEMBLY, PASSIVE, 28AWG, 2M, 56G / LANE, JACKET
200GE	NDYRYF-0006	AMPHENOL 400G TO 2X200G QSFP DD - 2X QSFP CABLE ASSEMBLY, PASSIVE, 30AWG, 0.5M, 56G / LANE, JACKET
100GE	NDYSYH-0003	AMPHENOL 400G TO 4X100G, QSFP DD - 4X QSFP CABLE ASSEMBLY, PASSIVE, 27AWG, 3M, 56G / LANE, JACKET
400GE	AAQD2QP2400C003	AOI 400G BREAKOUT TO 2X200G BREAKOUT AOC
400GE	AQQLBCQ4EDLA1729	AOI 400G FR4 QSFP112 MODULE
400GE	ATRF-C020	HGTECH 200G QSFP56 AOC 20M
100GE	ATRQ-A010	HGTECH 100G QSFP28 AOC 10M
400GE	C-DQF8FNMxxx-N00	INNOLIGHT 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC
400GE	C-GD4CNS010-N00	INNOLIGHT 400G QSFP112 TO 400G QSFP-DD AOC
800GE	C-OSG8CNSxxx-N00	INNOLIGHT 800G DR8 OSFP TO 2X400G QSFP112 DR4 BREAKOUT AOC
400GE	CTF4XFR4CS1-01	INNOLIGHT 400G-FR4 MODULE
400GE	EOLO-134HG-5H-B	EOPTOLINK 400G OSFP DR4 MODULE
800GE	EOLO-138HG-5H-DR2	EOPTOLINK 800G OSFP MODULE
200GE	EOLQ-132HG-5H-M3	EOPTOLINK 200G QSFP112 DR2 MODULE
100GE	FCBN425QE1C30-C1	QUADWIRE 100GBE QSFP28 30M AOC
400GE	FCBN950QE1C05	FINISAR 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 5M
400GE	FCBN950QE1C20	FINISAR 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 20M

Data Rate	Cable OPN	Description
400GE	QDD-2Q200-CU3M	CISCO 400G QSFP-DD TO 2X200G BREAKOUT DAC 3M
400GE	QDD-4ZQ100-CU1M	CISCO 400G QSFP-DD TO 4X100G BREAKOUT DAC 1M
100GE	QSFP-100G-AOC30M	CISCO 100G QSFP28 AOC 30M
200GE	QSFP-200-CU3M	CISCO 200G QSFP56 DAC 3M
100GE	QSFP28-LR4-AJ	CISCO 100G LR4 QSFP28 MODULE
100GE	RTXM420-007	ACCELINK 100G QSFP28 AOCs 7M
200GE	RTXM500-301-F1	ACCELINK 200G QSFP56 SR4
400GE	RTXM500-910	ACCELINK 400G QSFP-DD TO 2X200G QSFP56 BREAKOUT AOC 10M
200GE	RTXM600-338-R0	ACCELINK 200G QSFP112 VR2 MODULE
400GE	RTXM600-610	ACCELINK 400G QSFP-DD TO QSFP112 AOC
800GE	RTXM600-710	ACCELINK 800G OSFP TO 2X400G QSFP112 BREAKOUT AOC
200GE	T-FX4FNS-N00	INNOLIGHT 200G QSFP56 SR4 MODULE
200GE	T-GP2CNH-NR0	INNOLIGHT 200G QSFP112 DR2 MODULE, MPO-12
400GE	T-GQ4CNT-N00	INNOLIGHT 400G QSFP112 FR4 MODULE, LC
200GE	TR-HM4M085V-CF21	CREALIGHT 200G QSFP112 VR2 MODULE
400GE	T-RS4CNH-NFL	INNOLIGHT 400G (BRCM LASER)
400GE	T-RS4CNH-NFM	INNOLIGHT 400G (SUMI LASER)
800GE	T-RS8CNT-NMT	INNOLIGHT 800G DR8 OSFP RHS, DUAL MPO-12 APC
100GE	FTLC9555REP M3-HD	FINISAR 100G SR4 MODULE
200GE	QSFP-200-CU3M	200G QSFP56 TO QSFP56 PASSIVE COPPER CABLE, 3M
200GE	EOLQ-132HG-5H-M3	EOPTOLINK 200G DR2 QSFP112
200GE	T-GP2CNH-NR0	INNOLIGHT 200G DR2 QSFP112
800GE	EOLO-138HG-5H-DR2	EOPTOLINK 800G 2XDR4 MODULE

Data Rate	Cable OPN	Description
400GE	T-OH4CNT-N00	INNOLIGHT 400G DR4+ QSFP112 MODULE
400GE	EOLO-134HG-5H-DR2	EOPTOLINK 400G DR4 MODULE
100GE	740-088320	JUNIPER 100G FR1 QSFP28 MODULE
800GE	CAC8XXX1A2 B ?C2-XA	CREDO 800G OSFP TO 2X400G OSFP ACC
400GE	OM3638SX100	HUAWEI 400G QSFP112 SR4 MODULE
400GE	MTRQ-4S105	GENUINE 400G QSFP112 SR4 MODULE
100GE	DMM8211X-DCxx	ACCELINK 100G AOC QSFP56 TO DSFP
100GE	RTXM520-2xx	ACCELINK 100G AOC QSFP56 TO DSFP
200GE	QSFP-200G-SR4-S	CISCO 200G SR4 MODULE
200GE	MTRQ-2D504-01	HGTECH QSFP112 DR2 MODULE
200GE	HM4M085V-CXXX	CREALIGHT 200G SR2 QSFP112 MODULE
200GE	MTRQ-2V054-01	HGTECH 200G VR2 QSFP112 MODULE
800GE	CAC8XXX1A2 N ?C1-XA	CREDO 800G OSFP TO 2X400G QSFP112 ACC
10GE	DM7053	METHOD ELECTRONICS 10G BASE-T
400GE	LMQ8621-PC+	HISENSE 400G QSFP112 SR4
400GE	AQF400C11311550	ATI 400G DR4 QSFP112
200GE	NJAACK-N911	AMPHENOL 200G DAC
400GE	EOLQ-134HG-5H-M1	EOPTOLINK 400G DR4 QSFP112
400GE	C-DQF8FNM005-N00	INNOLIGHT 400G QSFP-DD TO 2X200G AOC

2 Tested Switches

1 NDR / 400GbE Switches

Speed	NVIDIA SKU	Legacy OPN	Description
NDR	920-9B210-00FN-xxx	QM9790	NVIDIA Quantum-2 based NDR InfiniBand EVB Switch, 64 NDR ports, 32 OSFP ports, non-blocking switching capacity of 51.2Tbps, 2 Power Supplies (AC), Standard depth, Unmanaged, P2C airflow, Rail Kit, RoHS6
NDR	920-9B210-00FN-xxx	QM9700	NVIDIA Quantum 2 based NDR InfiniBand Switch, 64 NDR ports, 32 OSFP ports, 2 Power Supplies (AC), Standard depth, Managed, P2C airflow, Rail Kit
400GbE	920-9N42F-00RI-xxx	SN5600	NVIDIA Spectrum-4 based 800GbE 2U Open Ethernet switch with ONIE and NOS Authentication, 64 OSFP ports and 1 SFP28 port, 2 power supplies (AC), x86 CPU, Secure-boot, standard depth, C2P airflow, Tool-less Rail Kit
400GbE	920-9N301-00xB-xxx	SN4700	NVIDIA Spectrum-3 based 400GbE, 1U Open Ethernet switch, 32xQSFP-DD ports, x86 CPU, standard depth
400GbE	920-9N312-00xB-xxx	SN4410	NVIDIA Spectrum-3 based 400GbE 1U Open Ethernet switch, 24 QSFPDD28 and 8 QSFP-DD ports, 2 Power Supplies (AC), x86 CPU, standard depth
400GbE	N/A	Wedge 400	Meta: Wedge 400-48X 400GbE Data Center Switch
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+

2 HDR / 200GbE Switches

Speed	NVIDIA SKU	Legacy OPN	Description
HDR	920-9B110-00FH-xxx	MQM8700	NVIDIA Quantum HDR InfiniBand Switch, 40 QSFP56 ports, 2 Power Supplies (AC), x86 dual core, standard depth, P2C airflow, Rail Kit
HDR	920-9B110-00FH-xxx	MQM8790	NVIDIA Quantum HDR InfiniBand Switch, 40 QSFP56 ports, 2 Power Supplies (AC), unmanaged, standard depth, P2C airflow, Rail Kit
200GbE	920-9N302-00xA-xxx	MSN4600V	NVIDIA Spectrum-3 based 200GbE 2U Open Ethernet switch, 64 QSFP56 ports, 2 Power Supplies (AC), x86 CPU, standard depth
200GbE	920-9N210-C1x7-xxx	MSN3700	NVIDIA Spectrum-2 based 200GbE Open Ethernet switch, 32 QSFP56 ports, x86 CPU, standard depth

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
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

Release Notes History

1 Changes and New Feature History



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

Feature/Change	Description
28.47.2682	
Bug Fixes	See <i>Bug Fixes in this Firmware Version</i> section.

Feature/Change	Description
28.47.1088	
Bug Fixes	See <i>Bug Fixes in this Firmware Version</i> section.

Feature/Change	Description
28.47.1026	
Separate Lossless Buffer for Priorities 3 and 4	Added support for multiple lossless buffer configurations in PFC. The firmware now automatically calculates buffer sizes and maps priorities to their respective buffers.
DPA Partition Creation	Access control was added to ensure that only the VHCA instance that created a DPA partition is permitted to modify or delete it.
DPA TIMER	DPA TIMER functionality has been exposed through the MTCTR access register, allowing direct access by applications.
DPA Manifest	A new DPA Manifest mechanism was introduced to define and manage application permissions.

Feature/Change	Description
28.47.1026	
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.
Parallel Suspends of VFs	Added support for parallel suspend operations across multiple VFs.
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.
ADP-RETX Timeout Profile	Firmware now allows the ADP-RETX timeout profile to be configured even when there are open QPs.
RTT RTC Timestamp	Added support for using the real-time clock to fill the request and response timestamps in hardware-generated RTT packets. To enable this feature, set <code>REAL_TIME_CLOCK_ENABLE</code> in <code>mlxconfig</code> and configure <code>ROCE_CC_RTT_TIMESTAMP_FORMAT</code> to <code>0x02 (REAL_TIME)</code> . For additional details, see Known Issue 4496642 in the <i>Known Issues</i> section.
SPDM (Security Protocol and Data Model) Measurements	The SPDM (Security Protocol and Data Model) measurements reporting mechanism has been updated to comply with version 1.2.0 of the SPDM specification. For further information refer to https://docs.nvidia.com/networking/display/dpunicattestation/connectx-7+measurements
Warm Boot when UPT VMs are Active	Added support for warm boot when UPT VMs are active, allowing the system to reboot without requiring a full shutdown of running VMs.
Bug Fixes	See <i>Bug Fixes in this Firmware Version</i> section.

Feature/Change	Description
28.46.3048	
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
28.46.1006	
PCIe Congestion Events	Added support for the general PCIe congestion object to monitor and receive events related to inbound and outbound PCIe congestion. A threshold can be configured to specify when the firmware should send an event to the software. This capability is activated by setting the mlxconfig parameter <code>PCIE_CONGESTION_MONITOR</code> .
Reading the Board ID from the EEPROM	Enabled reading the board ID from the EEPROM on the pluggable board and adjusting the configuration accordingly. For a 2xQSFP112 board (<code>board_id=4</code>), the firmware replaces the default 1xQSFP configuration with support for 2 QSFP ports.
Safely Identify DPUs/SmartNICs as a Machine and PCIe Slot	A new access register is introduced that accepts a type, length, and R/W command. • Write operation: Allocates a new ICMC buffer of the specified size (aligned to 64B) and stores the provided data. If a buffer for the given type already exists, the data in the ICMC is overwritten, and the locked area is adjusted accordingly • Read operation: If a buffer exists, its data is copied out. If not, the access register returns a size of 0 or an explicit error The length can be stored within the data in the ICMC, and the type is mapped to 256B chunks (due to access register limitations), so the VA of the buffer is calculated as <code>(base + (type << 8))</code> . The first 4 bytes store a validity flag and the length. If length storage is unnecessary (e.g., null-terminated data), a hardware read can use a cache-line hit as a validity bit. This feature is designed for limited use cases and does not address multi-host scenarios or broader ICMC utilization implications.
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 <code>l4_type_ext</code> 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 <code>payload_len</code> field in incoming NC-SI messages. Previously, invalid packets might have been accepted; now, such packets are silently dropped.
Bug Fixes	See <i>Bug Fixes in this Firmware Version</i> section.

Feature/Change	Description
28.45.1020	
SPDM	Introduced a 1ms delay for SPDM responses.
Bug Fixes	See <i>Bug Fixes in this Firmware Version</i> section.

2 Bug Fixes History



This section includes history of 3 major releases back. For [older releases history](#), please refer to the relevant firmware versions.

Internal Ref.	Issue
4608544	Description: Fixed an issue where, in rare live migration scenarios, a delayed doorbell triggered a false timeout alarm.
	Keywords: Live migration, doorbell, timeout alarm
	Detected in version: 28.46.1006
	Fixed in Release: 28.47.1088
4648642	Description: Fixed a rare issue in which destroying PCC NP configuration objects could result in assert 0x8175 being logged in dmesg.
	Keywords: Assert 0x8175, PCC NP
	Detected in version: 28.47.1026
	Fixed in Release: 28.47.1088
4718947	Description: Fixed an issue in the steering definers used for LAG with IPv6 traffic.
	Keywords: LAG, IPv6 traffic, steering
	Detected in version: 28.47.1026
	Fixed in Release: 28.47.1088
4690503	Description: Fixed an issue where creating a DPA process that uses 128 MB of data caused the dynamic library to fail with syndrome 0xdc30ac. The BSS section of the DPA application is now limited to 64 MB.
	Keywords: DPA process, BSS
	Detected in version: 28.47.1026
	Fixed in Release: 28.47.1088
4683823	Description: Some diagnostic data counters share hardware resources and cannot be configured simultaneously since 64-bit counter formats (e.g., DIAG_DATA_PARAMS_CONTEXT.output_format set to FORMAT_0 or FORMAT_1) consume more hardware resources per counter.
	Keywords: DOCA Telemetry Diagnostics
	Detected in version: 28.47.1026
	Fixed in Release: 28.47.1088

Internal Ref.	Issue
4570205	Description: Fixed a firmware issue where the ZTR_RTTCC algorithm parameters AI and HAI did not support a sufficient range.
	Keywords: PCC, ZTR_RTTCC

Internal Ref.	Issue
	Detected in version: 28.46.1006 Fixed in Release: 28.47.1026
4629077	Description: Fixed an issue where coalescing regular SX events with SX RTT events under ZTR_RTTCC could keep improper event fields, which could impact congestion control behavior. Keywords: PCC, ZTR_RTTCC Detected in version: 28.46.1006 Fixed in Release: 28.47.1026
4683328	Description: Fixed an issue in the ZTR_RTTCC algorithm where probe-abortion handling could behave improperly under high-stress network conditions, ensuring proper congestion control and stable traffic performance. Keywords: PCC, ZTR_RTTCC Detected in version: 28.46.1006 Fixed in Release: 28.47.1026
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 GVMLs 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: 28.46.1006 Fixed in Release: 28.47.1026
4506854	Description: Added Scaling Factor "read" field. To obtain correct values in mlxlink, MFT version 4.33.0 or later is required. Keywords: Scaling Factor, mlxlink, MFT Detected in version: 28.46.1006 Fixed in Release: 28.47.1026
4540897	Description: Added a recovery mechanism for I ² C failures. In case of an I ² C communication failure, the system now automatically attempts to recover and reinitialize the I/O expander to maintain continuous operation. Keywords: I2C failures, recovery mechanism Discovered in Version: 28.45.1020 Fixed in Release: 28.47.1026
4560691	Description: Fixed an issue in the MCTP SMBus configuration to ensure proper initialization and reliable communication between firmware components using the SMBus transport. Keywords: MCTP SMBus configuration Discovered in Version: 28.45.1020 Fixed in Release: 28.47.1026

Internal Ref.	Issue
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: 28.45.1020
	Fixed in Release: 28.47.1026
4683346	Description: Fixed an issue where, under the ZTR_RTTCC algorithm, a flow that reached its minimum rate due to heavy congestion would not recover its rate once the congestion cleared.
	Keywords: PCC, ZTR_RTTCC
	Discovered in Version: 28.46.1006
	Fixed in Release: 28.47.1026
4213025	Description: Fixed an issue where destroying or modifying a DPA partition from a non-owner VHCA was incorrectly allowed, such actions are now properly disallowed.
	Keywords: VHCA
	Discovered in Version: 28.46.1006
	Fixed in Release: 28.47.1026
4133425	Description: Fixed an issue where PTP was not supported when the port speed was configured to 1G.
	Keywords: PTP
	Discovered in Version: 28.46.1006
	Fixed in Release: 28.47.1026

Internal Ref.	Issue
4603774	Description: Fixed an issue where the adapter card could drop NC-SI over MCTP commands when padding bytes were present after the NC-SI checksum.
	Keywords: NC-SI
	Discovered in Version: 28.46.1006
	Fixed in Release: 28.46.3048

Internal Ref.	Issue
4501157 / 4257750	Description: Fixed a critical issue with a live firmware patch.
	Keywords: Live firmware patch
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006

Internal Ref.	Issue
4516394	Description: Fixed an uncleared state caused performance degradation after migration when there were significant differences in resource allocation by ensuring the state is cleared beforehand.
	Keywords: Performance
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4286902	Description: Fixed a race condition in DPA process termination during the exception flow, where a failed process could be missed and not reported to the user.
	Keywords: DPA
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4420567	Description: Removed an unnecessary and partially incorrect firmware check that blocked valid action list permutations allowed by the PRM. Validation of these permutations remains the responsibility of the software.
	Keywords: Header actions
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4443601	Description: Fixed a firmware issue where PXE failed to boot when both LAG ports were up.
	Keywords: PXE, LAG
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4443601	Description: Fixed a firmware issue where PXE failed to boot when both LAG ports were up.
	Keywords: PXE, LAG
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4475307	Description: Fixed an issue where PCC DCQCN used incorrect parameter values when link speed was 400Gbps or higher.
	Keywords: PCC DCQCN, congestion control
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4480427	Description: Fixed incorrect calculation of start address and mode for the CQE buffer in DPA CQ, which could cause CQEs to be written to the wrong address when the buffer is not 4K-aligned and spans a second page boundary.
	Keywords: CQ, CQE Buffer, DPA
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4490103	Description: Fixed the restart timing for the OSFP connector at 400 kHz I2C frequency.
	Keywords: Restart timing, OSFP, I2C frequency
	Discovered in Version: 28.44.1036

Internal Ref.	Issue
	Fixed in Release: 28.46.1006
4416919	Description: Updated Diagnostic Counters interface to prevent the following counters from being cleared after read: <code>pcie_link_latency_total_read_packet</code> and <code>pcie_link_latency_total_read_ns</code> . Keywords: Diagnostic Counters interface Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
4520774	Description: Fixed an issue preventing <code>adp_ret</code> profile in the ROCE_ACCL access register from being set when there are outstanding QPs on the PF or VF. Keywords: ROCE_ACCL access register, QPs, PF, VF Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
4403143	Description: Fixed an issue where <code>CREATE_DPA_PROCESS</code> could fail if a <code>DESTROY_DPA_PROCESS</code> (still running during destroy) was executed on a different VHCA. Also addressed a possible failure of <code>CREATE_DPA_PROCESS</code> after FLR. Keywords: DPA_PROCESS, FLR Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
4388371	Description: Fixed an issue where an uninitialized pport in the SLRG command, when using the SMP interface, caused an assertion failure. Keywords: SLRG, SMP interface, pport Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
4531558	Description: Fixed inconsistent LED behavior where the LED color for max speed was yellow and green otherwise, contrary to specification, due to a swapped GPIO mapping between control and PHY LEDs in the INI file. Keywords: LED Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
4470053	Description: Fixed an issue with vQoS parameter configuration to improve latency handling for large messages. Keywords: vQoS, latency Discovered in Version: 28.45.1020 Fixed in Release: 28.46.1006
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 Detected in version: 28.45.1020

Internal Ref.	Issue
	Fixed in Release: 28.46.1006
4475307	Description: Fixed an issue where PCC DCQCN used incorrect parameter values when link speed was 400Gbps or higher.
	Keywords: PCC DCQCN, congestion control.
	Detected in version: 28.45.1020
	Fixed in Release: 28.46.1006
4486431	Description: Fixed an issue where issuing multiple parallel queries of DPA_THREAD objects with the same object ID could fail.
	Keywords: DPA
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006
4497103	Description: Fixed the setting of the adaptive retransmission profile.
	Keywords: Adaptive retransmission profile
	Discovered in Version: 28.45.1020
	Fixed in Release: 28.46.1006

Internal Ref.	Issue
4436922	Description: Fixed DC InfiniBand functionality.
	Keywords: DC
	Detected in version: 28.45.1020
	Fixed in Release: 28.45.1200

Internal Ref.	Issue
4241238	Description: Fixed TX timeout issue related to the esw_scheduling QoS feature.
	Keywords: esw_scheduling QoS
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020
4352025	Description: Fixed an out-of-space issue related to writing Type-Length-Value (TLV) entries to reclaim space by removing outdated or irrelevant configuration entries.
	Keywords: TLV
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020
4318537	Description: Fixed an issue where the AI and HAI parameters of the ZTR_RTTCC algorithm, when configured by users, were automatically overwritten upon link speed changes. With this fix, if AI/HAI values were tuned for link speeds other than 100Gb/s, users should now divide those values by (link_speed / 100) to maintain consistent congestion control algorithm behavior.

Internal Ref.	Issue
	Keywords: Congestion control, ZTR_RTTCC Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4368450	Description: Fixed an issue where <code>PCC_CNP_COUNT</code> could not be reset using the <code>pcc_counter.sh</code> script in the DOCA tools. Keywords: PCC Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4360664	Description: Fixed an issue in DOCA Telemetry recovery following a non-graceful abort or driver restart. The problem was related to configuring certain counters during the post-abort flow. Keywords: DOCA Telemetry recovery Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4311009	Description: Fixed an issue with doorbell recovery that occurred when DCS was active in the system that resulted in the FLR/DESTROY_QP command getting stuck. Keywords: DCS, doorbell recovery Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4161925	Description: Fixed an issue where the CDB command timeout needed to be increased due to background traffic. Keywords: CDB Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4295491	Description: Fixed a rare race condition that could incorrectly detect a lack of communication between the ASICs, resulting in module failure and incorrect reporting as unplugged. Keywords: Race condition Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4342585	Description: Fixed an issue where TLV with OEM priority was incorrectly processed if blocked by MLNX TLV (over_en=0). Keywords: TLV Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020
4209790	Description: Enhanced execution time and reduced memory consumption for ETH transport resources (TIR, Transport Domain). Keywords: ETH transport resources Discovered in Version: 28.44.1036 Fixed in Release: 28.45.1020

Internal Ref.	Issue
4257863	Description: Fixed an issue that could cause the DESTROY_MKEY command to take an excessively long time to execute, with the host driver displaying a "No done completion" message for this command.
	Keywords: MKey
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020
4208995	Description: Fixed a timing race between Rx tuning and CDR locking following exit from electrical idle.
	Keywords: Timing race, Rx, CDR
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020
4239221	Description: Fixed an issue where performing a software reset could cause the device to become inaccessible, requiring a reboot to restore visibility.
	Keywords: sw reset
	Discovered in Version: 28.43.1014
	Fixed in Release: 28.45.1020
4274327	Description: Fixed an issue in the VQoS algorithm related to learning when an element is active and when it begins sending traffic.
	Keywords: VQoS algorithm
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020
4222773	Description: Reduced the bandwidth fluctuation induced by VQoS rate limiting in systems with bellow 350 QPs.
	Note: In this release, the relevant change is enabled by default, while in future versions it will be disabled by default and an additional NV configuration will be required to enable it.
	Keywords: VQoS
	Discovered in Version: 28.44.1036
4274669	Fixed in Release: 28.45.1020
	Description: Fixed a race condition that could prevent the application from transmitting when VQoS is enabled.
	Keywords: VQoS
	Discovered in Version: 28.44.1036
4319008	Fixed in Release: 28.45.1020
	Description: Fixed an issue that caused bandwidth to drop when unbinding multiple VFs with VQoS enabled.
	Keywords: VQoS
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020

Internal Ref.	Issue
4199274	Description: Fixed an issue where RTT packets with any destination MAC address were incorrectly treated as having a valid destination MAC. The new firmware now discards RTT packets if their destination MAC does not match the port's MAC.
	Keywords: RTT, destination MAC
	Discovered in Version: 28.44.1036
	Fixed in Release: 28.45.1020

Legal Notices and 3rd Party Licenses

The following are the drivers' software, tools and HCA firmware legal notices and 3rd party licenses.

The following are the drivers' software, tools and HCA firmware legal notices and 3rd party licenses.

Product	Version	Legal Notices and 3rd Party Licenses
Firmware	xx.47.3576	• License • 3rd Party Notice • 3rd Party Unify Notice • HCA Firmware EULA
DOCA-Host	3.2.3	• License • 3rd Party Notice • 3rd Party Unify Notice
MFT FreeBSD	4.34.1-25	• License • 3rd Party Notice • 3rd Party Unify Notice
MFT Linux		• License • 3rd Party Notice • 3rd Party Unify Notice
MFT VMware		• License • 3rd Party Notice • 3rd Party Unify Notice
MFT Windows		• License • 3rd Party Notice • 3rd Party Unify Notice

Notice

This document is provided for information purposes only and shall not be regarded as a warranty of a certain functionality, condition, or quality of a product. Neither NVIDIA Corporation nor any of its direct or indirect subsidiaries and affiliates (collectively: "NVIDIA") make any representations or warranties, expressed or implied, as to the accuracy or completeness of the information contained in this document and assumes no responsibility for any errors contained herein. NVIDIA shall have no liability for the consequences or use of such information or for any infringement of patents or other rights of third parties that may result from its use. This document is not a commitment to develop, release, or deliver any Material (defined below), code, or functionality.

NVIDIA reserves the right to make corrections, modifications, enhancements, improvements, and any other changes to this document, at any time without notice. Customer should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

NVIDIA products are sold subject to the NVIDIA standard terms and conditions of sale supplied at the time of order acknowledgement, unless otherwise agreed in an individual sales agreement signed by authorized representatives of NVIDIA and customer ("Terms of Sale"). NVIDIA hereby expressly objects to applying any customer general terms and conditions with regards to the purchase of the NVIDIA product referenced in this document. No contractual obligations are formed either directly or indirectly by this document.

NVIDIA products are not designed, authorized, or warranted to be suitable for use in medical, military, aircraft, space, or life support equipment, nor in applications where failure or malfunction of the NVIDIA product can reasonably be expected to result in personal injury, death, or property or environmental damage. NVIDIA accepts no liability for inclusion and/or use of NVIDIA products in such equipment or applications and therefore such inclusion and/or use is at customer's own risk.

NVIDIA makes no representation or warranty that products based on this document will be suitable for any specified use. Testing of all parameters of each product is not necessarily performed by NVIDIA. It is customer's sole responsibility to evaluate and determine the applicability of any information contained in this document, ensure the product is suitable and fit for the application planned by customer, and perform the necessary testing for the application in order to avoid a default of the application or the product.

Weaknesses in customer's product designs may affect the quality and reliability of the NVIDIA product and may result in additional or different conditions and/or requirements beyond those contained in this document. NVIDIA accepts no liability related to any default, damage, costs, or problem which may be based on or attributable to: (i) the use of the NVIDIA product in any manner that is contrary to this document or (ii) customer product designs.

No license, either expressed or implied, is granted under any NVIDIA patent right, copyright, or other NVIDIA intellectual property right under this document. Information published by NVIDIA regarding third-party products or services does not constitute a license from NVIDIA to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property rights of the third party, or a license from NVIDIA under the patents or other intellectual property rights of NVIDIA.

Reproduction of information in this document is permissible only if approved in advance by NVIDIA in writing, reproduced without alteration and in full compliance with all applicable export laws and regulations, and accompanied by all associated conditions, limitations, and notices.

THIS DOCUMENT AND ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS, AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, "MATERIALS") ARE BEING PROVIDED "AS IS." NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY, OR OTHERWISE WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT



NOT PROHIBITED BY LAW, IN NO EVENT WILL NVIDIA BE LIABLE FOR ANY DAMAGES, INCLUDING WITHOUT LIMITATION ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF ANY USE OF THIS DOCUMENT, EVEN IF NVIDIA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Notwithstanding any damages that customer might incur for any reason whatsoever, NVIDIA's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms of Sale for the product.

Trademarks

NVIDIA, the NVIDIA logo, and Mellanox are trademarks and/or registered trademarks of NVIDIA Corporation and/or its affiliates in the U.S. and in other countries. Other company and product names may be trademarks of the respective companies with which they are associated.

Copyright

© 2026 NVIDIA Corporation & affiliates. All Rights Reserved.

