Release Notes

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The release note pages provide information for NVIDIA® BlueField® family software such as changes and new features, supported platforms, and reports on software known issues as well as bug fixes.

Changes and New Features

Info

For an archive of changes and features from previous releases, refer to Release Notes Change Log History.

Info

NVIDIA® BlueField ® DPUs support configuring network ports as either Ethernet only or InfiniBand only .

Changes and New Features in 4.9.1

- **PLDM firmware update support for BlueField-3 devices**

  Added support for PLDM firmware update – BlueField-3 devices now support firmware updates via the PLDM type-5 protocol over MCTP over PCIe, allowing future updates to be performed through the platform's BMC. This implementation complies with PLDM specification version 1.0. Note that the firmware image size is approximately 100MB.

  Known limitations:

  - With this release, firmware updates using the PLDM flow can only be applied with a full-system power cycle. Support for applying updates via server reboot will be added in a future release.
  - When operating in DPU mode, administrators must manually configure BMC credentials in a local Arm OS config file to enable BMC and CEC updates. Provisioning of credentials will be automated in a future release.

- Enhanced firmware reset flow for Sync1 utilizing community-accepted hot reset kernel flow
- Added logging of NVMe/eMMC wipe operations to RShim log
- Bug fixes

Backward Compatibility Breaking Changes in this Release

The following changes in DOCA 2.9.1 (BSP 4.9.1) and BMC 24.10-LTSU1 break backward compatibility and therefore require customers to upgrade all DOCA software components to the latest available version to avoid anomalous behavior:

Software Component	Change Description
BMC	IPMB channel relocation – The IPMB channel used by the BlueField BMC to retrieve data from the BlueField Arm is now utilizing a dedicated I2C interface. This change is aimed at improving the serviceability of the interface.
FlexIO	Fixing a mandatory hardware limitation found the updated firmware version breaks backward compatibility between the software layers

Supported Platforms and Interoperability

Supported and Tested NVIDIA BlueField-3 Platforms

SKU	**PSID**	**Description**
900-9D3B6-00CN-AB0	MT_0000000883	NVIDIA BlueField-3 B3240 P-Series Dual-slot FHHL DPU; 400GbE / NDR IB (default mode); Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B6-00CV-AAH	MT_0000000884	NVIDIA BlueField-3 B3220 P-Series FHHL DPU; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B6-00SN-AB0	MT_0000000964	NVIDIA BlueField-3 B3240 P-Series Dual-slot FHHL DPU; 400GbE / NDR IB (default mode); Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3B6-00SV-AA0	MT_0000000965	NVIDIA BlueField-3 B3220 P-Series FHHL DPU; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3B4-00CC-EA0	MT_0000000966	NVIDIA BlueField-3 B3210L E-series FHHL SuperNIC; 100GbE (default mode) / HDR100 IB; Dual port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B4-00SC-EA0	MT_0000000967	NVIDIA BlueField-3 B3210L E-series FHHL SuperNIC; 100GbE (default mode) / HDR100 IB; Dual port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3B4-00EN-EA0	MT_0000000101 0	NVIDIA BlueField-3 B3140L E-Series FHHL SuperNIC; 400GbE / NDR IB (default mode); Single-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Enabled

SKU	**PSID**	**Description**
900-9D3B4-00PN-EA0	MT_0000000101 1	NVIDIA BlueField-3 B3140L E-Series FHHL SuperNIC; 400GbE / NDR IB (default mode); Single-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3B6-00CC-AA0	MT_0000000102 4	NVIDIA BlueField-3 B3210 P-Series FHHL DPU; 100GbE (default mode) / HDR100 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC;Crypto Enabled
900-9D3B6-00SC-AA0	MT_0000000102 5	NVIDIA BlueField-3 B3210 P-Series FHHL DPU; 100GbE (default mode) / HDR100 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3D4-00EN-HA0	MT_0000000106 9	Nvidia BlueField-3 B3140H E-series HHHL SuperNIC; 400GbE (default mode) / NDR IB; Single-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on board DDR; integrated BMC; Crypto Enabled
900-9D3D4-00NN-HA0	MT_0000000107 0	Nvidia BlueField-3 B3140H E-series HHHL SuperNIC; 400GbE (default mode) /NDR IB; Single-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on board DDR; integrated BMC; Crypto Disabled
900-9D3C6-00CV-DA0	MT_0000000107 5	NVIDIA BlueField-3 B3220SH E-Series FHHL Storage Controller; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 48GB on-board DDR; integrated BMC; Crypto Enabled; Secure Boot
900-9D3C6-00CV-GA0	MT_0000000108 3	NVIDIA BlueField-3 B3220SH E-Series No heatsink FHHL Storage Controller; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 48GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B4-00CV-EA0	MT_0000000109 3	NVIDIA BlueField-3 B3220L E-Series FHHL SuperNIC; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B4-00SV-EA0	MT_0000000109 4	NVIDIA BlueField-3 B3220L E-Series FHHL SuperNIC; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3C6	MT_0000	NVIDIA BlueField-3 B3220SH E-Series No Heatsink FHHL Storage Controller; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112;

SKU	**PSID**	**Description**
-00SV-GA0	01101	PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 48GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3C6-00SV-DA0	MT_0000000112	NVIDIA BlueField-3 B3220SH E-Series FHHL Storage Controller; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 48GB on-board DDR; integrated BMC; Crypto Disabled;
900-9D3B6-00CC-EA0	MT_0000000115	NVIDIA BlueField-3 B3210E E-Series FHHL DPU; 100GbE (default mode) / HDR100 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B6-00SC-EA0	MT_0000000117	NVIDIA BlueField-3 B3210E E-Series FHHL DPU; 100GbE (default mode) / HDR100 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Disabled
900-9D3B6-00CN-PA0	MT_0000000118	NVIDIA BlueField-3 B3240 P-Series FHHL DPU for Cold Aisle; 400GbE / NDR IB (default mode); Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Enabled
900-9D3B6-00CV-PA0	MT_0000000119	NVIDIA BlueField-3 B3220 P-Series FHHL DPU for Cold Aisle; 200GbE (default mode) / NDR200 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC; Crypto Enabled; Tall Bracket
900-9D3D4-00NN-LA0	MT_0000000122	Nvidia BlueField-3 B3140H E-series HHHL SuperNIC for Cold Aisle; 400GbE (default mode)/NDR IB; Single-port QSFP112; PCIe Gen5.0 x16; 8 Arm cores; 16GB on board DDR; integrated BMC; Crypto Disabled

Supported and Tested NVIDIA BlueField-2 Platforms

NVIDIA SKU	Legacy OPNs	PSID	Description
900-9D219-0086-ST1	MBF2M516A-CECOT	MT_0000000375	BlueField-2 E-Series DPU 100GbE Dual-Port QSFP56; PCIe Gen4 x16; Crypto and Secure Boot Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL

NVIDIA SKU	Legacy OPNs	PSID	Description
900-9D219-0086-ST0	MBF2M516A-EECOT	MT_0000000376	BlueField-2 E-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; PCIe Gen4 x16; Crypto and Secure Boot Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0056-ST1	MBF2M516A-EENOT	MT_0000000377	BlueField-2 E-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; PCIe Gen4 x16; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D206-0063-ST4	MBF2M322A-AEEOT	MT_0000000490	BlueField-2 E-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto Enabled; 8GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0053-SQ0	MBF2H332A-AENOT	MT_0000000539	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0063-ST2	MBF2H332A-AEEOT	MT_0000000540	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0083-ST3	MBF2H332A-AECOT	MT_0000000541	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto and Secure Boot Enabled; 16GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0083-ST1	MBF2H322A-AECOT	MT_0000000542	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto and Secure Boot Enabled; 8GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0063-ST1	MBF2H322A-AEEOT	MT_0000000543	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto Enabled; 8GB on-board DDR; 1GbE OOB management; HHHL
900-9D206-0053-ST2	MBF2H322A-AENOT	MT_0000000544	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; PCIe Gen4 x8; Crypto Disabled; 8GB on-board DDR; 1GbE OOB management; HHHL

NVIDIA SKU	Legacy OPNs	PSID	Description
900-9D219-0066-ST0	MBF2M516A-EEEOT	MT_0000000559	BlueField-2 E-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; PCIe Gen4 x16; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0056-SN1	MBF2M516A-CENOT	MT_0000000560	BlueField-2 E-Series DPU 100GbE Dual-Port QSFP56; PCIe Gen4 x16; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0066-ST2	MBF2M516A-CEEOT	MT_0000000561	BlueField-2 E-Series DPU 100GbE Dual-Port QSFP56; PCIe Gen4 x16; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0006-ST0	MBF2H516A-CEEOT	MT_0000000702	BlueField-2 DPU 100GbE Dual-Port QSFP56; PCIe Gen4 x16; Crypto; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0056-ST2	MBF2H516A-CENOT	MT_0000000703	BlueField-2 DPU 100GbE Dual-Port QSFP56; PCIe Gen4 x16; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0066-ST3	MBF2H516A-EEEOT	MT_0000000704	BlueField-2 DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; PCIe Gen4 x16; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D219-0056-SQ0	MBF2H516A-EENOT	MT_0000000705	BlueField-2 DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; PCIe Gen4 x16; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D250-0038-ST1	MBF2M345A-HESOT	MT_0000000715	BlueField-2 E-Series DPU; 200GbE/HDR single-port QSFP56; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; HHHL
900-9D250-0048-ST1	MBF2M345A-HECOT	MT_0000000716	BlueField-2 E-Series DPU; 200GbE/HDR single-port QSFP56; PCIe Gen4 x16; Secure Boot Enabled; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; HHHL

NVIDIA SKU	Legacy OPNs	PSID	Description
900-9D218-0073-ST1	MBF2H512C-AESOT	MT_0000000723	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; integrated BMC; PCIe Gen4 x8; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D218-0083-ST2	MBF2H512C-AECOT	MT_0000000724	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; integrated BMC; PCIe Gen4 x8; Secure Boot Enabled; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; FHHL
900-9D208-0086-ST4	MBF2M516C-EECOT	MT_0000000728	BlueField-2 E-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0086-SQ0	MBF2H516C-CECOT	MT_0000000729	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0076-ST5	MBF2M516C-CESOT	MT_0000000731	BlueField-2 E-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0076-ST6	MBF2M516C-EESOT	MT_0000000732	BlueField-2 E-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0086-ST3	MBF2M516C-CECOT	MT_0000000733	BlueField-2 E-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Enabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0076-ST2	MBF2H516C-EESOT	MT_0000000737	BlueField-2 P-Series DPU 100GbE/EDR/HDR100 VPI Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL
900-9D208-0076-ST1	MBF2H516C-CESOT	MT_0000000738	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management; Tall Bracket; FHHL

NVIDIA SKU	Legacy OPNs	PSID	Description
900-9D218-0083-ST4	MBF2H532C-AECOT	MT_0000000765	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; integrated BMC; PCIe Gen4 x8; Secure Boot Enabled; Crypto Enabled; 32GB on-board DDR; 1GbE OOB management; FHHL
900-9D218-0073-ST0	MBF2H532C-AESOT	MT_0000000766	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; integrated BMC; PCIe Gen4 x8; Secure Boot Enabled; Crypto Disabled; 32GB on-board DDR; 1GbE OOB management; FHHL
900-9D208-0076-ST3	MBF2H536C-CESOT	MT_0000000767	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Disabled; 32GB on-board DDR; 1GbE OOB management; FHHL
900-9D208-0086-ST2	MBF2H536C-CECOT	MT_0000000768	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled; Crypto Enabled; 32GB on-board DDR; 1GbE OOB management; FHHL
900-9D218-0073-ST4	MBF2H512C-AEUOT	MT_0000000972	BlueField-2 P-Series DPU 25GbE Dual-Port SFP56; integrated BMC; PCIe Gen4 x8; Secure Boot Enabled with UEFI disabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management
900-9D208-0076-STA	MBF2H516C-CEUOT	MT_0000000973	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled with UEFI disabled; Crypto Disabled; 16GB on-board DDR; 1GbE OOB management
900-9D208-0076-STB	MBF2H536C-CEUOT	MT_0000001008	BlueField-2 P-Series DPU 100GbE Dual-Port QSFP56; integrated BMC; PCIe Gen4 x16; Secure Boot Enabled with UEFI Disabled; Crypto Disabled; 32GB on-board DDR; 1GbE OOB management; FHHL
6991402800 00	N/A	NVD0000000 0020	ZAM/NAS

Embedded Software

The BlueField installation DOCA local repo package for this release is `DOCA_2.9.1_BSP_4.9.1_Ubuntu_22.04-2.23-07.prod.bfb`.

The following software components are embedded in it:

Component	Version	Description
BlueField-3 NIC firmware	32.43.2402	Firmware is used to run user programs on the BlueField-3 which allow hardware to run
BlueField-2 NIC firmware	24.43.2402	Firmware is used to run user programs on the BlueField-2 which allow hardware to run
BMC firmware	24.10-17	BlueField BMC firmware
BlueField-3 eROT (Glacier)	00.02.0195.0000	BlueField-3 eROT firmware
BlueField-2 eROT (CEC)	04.0f	BlueField-2 eROT firmware

Info

For more information about embedded software components and drivers, refer to the DOCA Release Notes.

Supported DPU Linux Distributions (aarch64)

- Ubuntu 22.04

Supported Host OS per DOCA-Host Installation Profile

The default operating system included with the BlueField bundle (for DPU and SuperNIC) is Ubuntu 22.04.

The supported operating systems on the host machine per DOCA-Host installation profile are the following:

Note

Only the following generic kernel versions are supported for DOCA local repo package for host installation.

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
			doca-all	doca-networking	doca-ofed	doca-roce							
Alinux 3.2	x86	5.10.134-13.al8.x86_64	✓	✓	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Alma 8.5	x86	4.18.0-348.12.2.EL8_5.X86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
Anolis OS 8.4	aarch64	4.18.0-348.2.1.AN8_4.aarch64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
	x86	4.18.0-305.AN8.X86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
Anolis OS 8.6	aarch64	5.10.134+	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	5.10.134+	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
Azure Linux 3.0	x86	6.6.35.1-5.azl3	✅	✅	✅	❌	Primary	❌	❌	❌	❌	❌	❌
BCLinux 21.10SP2	aarch64	4.19.90-2107.6.0.0098.oe1.bclinux.aarch64	❌	❌	✅	❌	Primary	❌	❌	❌	✅	❌	❌
	x86	4.19.90-2107.6.0.0100.oe1.bclinux.x86_64	❌	❌	✅	❌	Primary	❌	❌	✅	✅	❌	❌
BCLinux 22.10	aarch64	5.10.0-153.24.0.100.6.oe2203sp2.bclinux.aarch64	❌	❌	✅	❌	Primary	❌	❌	❌	✅	❌	❌
	x86	5.10.0-153.24.0.100.6.oe2203sp2.bclinux.x86_64	❌	❌	✅	❌	Primary	❌	❌	✅	✅	❌	❌
CentOS Stream 8	aarch64	4.18.0-552.EL8.AARCH64	❌	❌	✅	❌	Community	❌	❌	❌	❌	❌	❌

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
	x86	4.18.0-552.el8.x86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
CentOS Stream 9	aarch64	5.14.0-480.EL9.AARCH64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
	x86	5.14.0-480.el9.x86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
CTyunOS 22.06	aarch64	4.19.90-2102.2.0.0066.ctl2.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	4.19.90-2102.2.0.0066.ctl2.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
CTyunOS 23.01	aarch64	5.10.0-136.12.0.86.ctl3.aarch64	✓	✓	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	5.10.0-136.12.0.86.ctl3.x86_64	✓	✓	✓	✓	Primary	✗	✗	✗	✗	✗	✗
Debian 10.8	aarch64	4.19.0-14-arm64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x8	4.19.0-14-	✓	✓	✓	✗	Prim	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
	6	amd64					ary						
Debian 10.9	x86	4.19.0-14-amd64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	4.19.0-16-amd64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
Debian 10.13	aarch64	4.19.0-21-arm64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	4.19.0-21-amd64	✓	✓	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Debian 11.3	aarch64	5.10.0-13-arm64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	x86	5.10.0-13-amd64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
Debian 12.1	aarch64	6.1.0-10-arm64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	x86	6.1.0-10-amd64	✓	✓	✓	✗	Primary	✓	✗	✗	✓	✗	✗
Debian 12.5	aarch64	6.1.0-18-arm64	✓	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	x86	6.1.0-18-amd64	✓	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
EulerOS	aarch64	4.19.90-vhulk2006.2.0.h171.e	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
2.0 SP9		ulerosv2r9.aarch64											
	x86	4.18.0-147.5.1.0.h269.eulerosv2r9.x86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
EulerOS 2.0 SP10	aarch64	4.19.90-vhulk2110.1.0.h860.eulerosv2r10.aarch64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
	x86	4.18.0-147.5.2.4.h694.eulerosv2r10.x86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
EulerOS 2.0 SP11	aarch64	5.10.0-60.18.0.50.h323.eulerosv2r11.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	5.10.0-60.18.0.50.h323.eulerosv2r11.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
EulerOS 2.0 SP12	aarch64	5.10.0-136.12.0.86.h1032.e	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
		ulerosv2r12.aarch64											
	x86	5.10.0-136.12.0.86.h1032.eulerosv2r12.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Kylin 10 SP2	aarch64	4.19.90-24.4.v2101.ky10.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	4.19.90-24.4.v2101.ky10.x86_64	✗	✗	✓	✗	Primary	✓	✗	✗	✗	✗	✗
Kylin 10 SP3	aarch64	4.19.90-52.22.v2207.ky10.aarch64	✗	✗	✓	✗	Primary	✓	✗	✗	✗	✗	✗
	x86	4.19.90-52.22.v2207.ky10.x86_64	✗	✗	✓	✗	Primary	✓	✗	✗	✗	✗	✗
Linux Kernel 6.11	aarch64	6.11	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	x86		✗	✗	✓	✗	Primary	✓	✗	✓	✓	✗	✗
Mariner	x86	5.15.148.2-2.cm2	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
2.0													
Oracle Linux 7.9	x86	5.4.17-2011.6.2.el7uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 8.4	x86	5.4.17-2102.201.3.el8uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 8.6	x86	5.4.17-2136.307.3.1.el8uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 8.7	x86	5.15.0-3.60.5.1.el8uek.x86_64	✓	✓	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 8.8	x86	5.15.0-101.103.2.1.el8uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 9.1	x86	5.15.0-3.60.5.1.el9uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
Oracle Linux 9.2	x86	5.15.0-101.103.2.1.el9uek.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
OpenSUSE 15.3	aarch64	-	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
	x86	5.3.18-150300.59.43-DEFAULT	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
openEuler 20.03 SP1	aarch64	4.19.90-2012.4.0.0053.OE1.aarch64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
	x86	4.19.90-2110.8.0.0119.OE1.X86_64	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
openEuler 20.03 SP3	aarch64	4.19.90-2112.8.0.0131.oe1.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	4.19.90-2112.8.0.0131.oe1.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
openEuler 22.03 SP1	x86	5.10.0-136.12.0.86.oe2203sp1.x86_64	✓	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
openEuler	x86	5.10.0-182.0.0.95.	✓	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
22.03 SP3		oe2203sp3.x86_64											
Photon OS 3.0	x86	4.19.225-3.ph3	✗	✗	✓	✗	Community	✗	✗	✗	✗	✗	✗
RHEL/CentOS 8.0	aarch64	4.18.0-80.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6
	x86	4.18.0-80.el8.x86_64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6
RHEL/CentOS 8.1	aarch64	4.18.0-147.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6
	x86	4.18.0-147.el8.x86_64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6
RHEL/CentOS 8.2	aarch64	4.18.0-193.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	x86	4.18.0-193.el8.x86_64	✓	✓	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
RHEL/CentOS 8.3	aarch64	4.18.0-240.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
	x86	4.18.0-240.el8.x86_64	✗	✗	✓	✗	Primary	✓	✓	✗	✗	✓	12.6
RHEL/CentOS 8.4	aarch64	4.18.0-305.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	x86	4.18.0-305.el8.x86_64	✗	✗	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
RHEL/CentOS 8.5	aarch64	4.18.0-348.el8.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	x86	4.18.0-348.el8.x86_64	✗	✗	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
RHEL/Rocky 8.6	aarch64	aarch644.18.0-372.41.1.el8_6.aarch64	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	ppc64le	4.18.0-372.41.1.el8_6.ppc64le	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	x86	4.18.0-372.41.1.el8_6.x86_64	✓	✓	✓	✗	Primary	✓	✓	✓	✓	✓	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
RHEL/Rocky 8.7	aarch64	4.18.0-425.14.1.el8_7.aarch64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	x86	4.18.0-425.14.1.el8_7.x86_64	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✓	12.6
RHEL/Rocky 8.8	aarch64	4.18.0-477.10.1.el8_8.aarch64	✓	✓	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	ppc64le	4.18.0-477.10.1.el8_8.ppc64le	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	x86	4.18.0-477.10.1.el8_8.x86_64	✓	✓	✓	✓	Primary	✓	✗	✓	✓	✓	12.6
RHEL/Rocky 8.9	aarch64	4.18.0-513.5.1.el8_9.aarch64	✓	✓	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	ppc64le	4.18.0-513.5.1.el8_9.ppc64le	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	x86	4.18.0-513.5.1.el8_9.x86_64	✓	✓	✓	✓	Primary	✓	✗	✓	✓	✓	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
RHEL/Rocky 8.10	aarch64	4.18.0-553.el8_10.aarch64	✅	✅	✅	❌	Primary	✅	❌	❌	✅	✅	12.6
	ppc64le	4.18.0-553.el8_10.ppc64le	❌	❌	✅	❌	Primary	✅	❌	❌	✅	✅	12.6
	x86	4.18.0-553.el8_10.x86_64	✅	✅	✅	✅	Primary	✅	❌	✅	✅	✅	12.6
RHEL/Rocky 9.0	aarch64	5.14.0-70.46.1.el9_0.aarch64	❌	❌	✅	❌	Primary	✅	❌	❌	✅	✅	12.6
	ppc64le	5.14.0-70.46.1.el9_0.ppc64le	❌	❌	✅	❌	Primary	✅	❌	❌	✅	✅	12.6
	x86	5.14.0-70.46.1.el9_0.x86_64	❌	❌	✅	❌	Primary	✅	❌	✅	✅	✅	12.6
RHEL/Rocky 9.1	aarch64	5.14.0-162.19.1.el9_1.aarch64	❌	❌	✅	❌	Primary	✅	❌	❌	✅	✅	12.6
	x86	5.14.0-162.19.1.el9_1.x86_64	✅	✅	✅	❌	Primary	✅	❌	✅	✅	✅	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
RHEL/Rocky 9.2	aarch64	5.14.0-284.11.1.el9_2.aarch64	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	ppc64le	5.14.0-284.11.1.el9_2.ppc64le	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✓	12.6
	x86	5.14.0-284.11.1.el9_2.x86_64	✗	✗	✓	✓	Primary	✓	✗	✓	✓	✓	12.6
RHEL/Rocky 9.3	aarch64	5.14.0-362.8.1.el9_3.aarch64	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✓	12.6
	ppc64le	5.14.0-362.8.1.el9_3.ppc64le	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✓	12.6
	x86	5.14.0-362.8.1.el9_3.x86_64	✗	✗	✓	✓	Primary	✓	✗	✓	✓	✓	12.6
RHEL/Rocky 9.4	aarch64	5.14.0-427.13.1.el9_4.aarch64	✓	✓	✓	✗	Primary	✓	✗	✓	✓	✓	12.6
	ppc64le	5.14.0-427.13.1.el9_4.ppc64le	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✓	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
	x86	5.14.0-427.13.1.el9_4.x86_64	✔	✔	✔	✔	Primary	✔	✘	✔	✔	✔	12.6
SLES 15 SP2	aarch64	5.3.18-22-default	✘	✘	✔	✘	Primary	✔	✔	✘	✔	✘	✘
	ppc64le	5.3.18-22-default	✘	✘	✔	✘	Primary	✔	✔	✘	✔	✘	✘
	x86	5.3.18-22-default	✘	✘	✔	✘	Primary	✔	✔	✔	✔	✘	✘
SLES 15 SP3	aarch64	5.3.18-57-default	✘	✘	✔	✘	Primary	✔	✘	✘	✔	✘	✘
	ppc64le	5.3.18-57-default	✘	✘	✔	✘	Primary	✔	✘	✘	✔	✘	✘
	x86	5.3.18-57-default	✘	✘	✔	✘	Primary	✔	✘	✔	✔	✘	✘
SLES 15 SP4	aarch64	5.14.21-150400.22-default	✘	✘	✔	✘	Primary	✔	✘	✘	✔	✘	✘
	ppc64le	5.14.21-150400.22-default	✘	✘	✔	✘	Primary	✔	✘	✘	✔	✘	✘
	x86	5.14.21-150400.22-default	✘	✘	✔	✘	Primary	✔	✘	✔	✔	✘	✘

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
SLES 15 SP5	aarch64	5.14.21-150500.53-default	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	ppc64le	5.14.21-150500.53-default	✗	✗	✓	✗	Primary	✓	✗	✗	✓	✗	✗
	x86	5.14.21-150500.53-default	✗	✗	✓	✓	Primary	✓	✗	✓	✓	✗	✗
SLES 15 SP6	aarch64	6.4.0-150600.21-default	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✗	✗
	ppc64le	6.4.0-150600.21-default	✗	✗	✓	✗	Primary	✓	✗	✓	✓	✗	✗
	x86	6.4.0-150600.21-default	✗	✗	✓	✓	Primary	✓	✗	✓	✓	✗	✗
TencentOS 3.3	aarch64	5.4.119-19.0009.39	✗	✗	✓	✗	Primary	✗	✗	✗	✓	✗	✗
	x86	5.4.119-19.0009.39	✗	✗	✓	✗	Primary	✗	✗	✗	✓	✗	✗
Ubuntu 20.04	aarch64	5.4.0-26-generic	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6
	ppc6	5.4.0-26-generic	✗	✗	✓	✗	Primary	✓	✓	✗	✓	✓	12.6

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
	4le												
	x86	5.4.0-26-generic	✓	✓	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
Ubuntu 22.04	aarch64	5.15.0-25-generic	✓	✓	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
	ppc64le	5.15.0-25-generic	✗	✗	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
	x86	5.15.0-25-generic	✓	✓	✓	✓	Primary	✓	✓	✓	✓	✓	12.6
Ubuntu 24.04	aarch64	6.8.0-31-generic	✓	✓	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
	ppc64le	6.8.0-31-generic	✗	✗	✓	✗	Primary	✓	✓	✓	✓	✓	12.6
	x86	6.8.0-31-generic	✓	✓	✓	✓	Primary	✓	✓	✓	✓	✓	12.6
Ubuntu24.10	x86	6.11.0-8-generic	✗	✗	✓	✗	Primary	✓	✓	✓	✓	✓	12.4
UOS 20.1060	aarch64	5.10.0-46.uel20.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	5.10.0-46.uel20.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Operating System	Architecture	Default Kernel Version (Primary)/ Tested with Kernel Version (Community)	Supported DOCA Profile				OS Support Model	ASAP2 OVS-Kernel SR-IOV	ASAP2 OVS-DPDK SR-IOV	NFS-over-RDMA	NVMe	GPUDirect Storage (GDS)	UCX-CUDA Version
UOS 20.1 060a	aarch64	5.10.0-46.uelc20.aarch64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗
	x86	5.10.0-46.uelc20.x86_64	✗	✗	✓	✗	Primary	✗	✗	✗	✗	✗	✗

Supported Open vSwitch

- 2.15.1

Bug Fixes In This Version

Info

For an archive of bug fixes from previous releases, please see "Bug Fixes History".

Ref #	Issue Description
4128189	Description: When updating the BFB image on a BlueField-2 system via HTTP/HTTPS using Redfish, the operation may fail if the system is overloaded
	Keyword: Software; update; Redfish
	Reported in version: 4.9.0

Known Issues

Ref #	Issue
4186968	Description: Disabling boot options applies the new setting after the first reboot of the BlueField Arm. However, during the second reboot, some boot option settings are unexpectedly re-enabled. This issue specifically affects UEFI boot options.
	Workaround: N/A
	Keyword: UEFI; UEFI boot options
	Reported in version: 4.9.1
4157867	Description: If the SSD is power cycled many times, the file system may be corrupted.
	Workaround: Re-install the BFB or power cycle the BlueField.
	Keyword: eMMC; file corruption
	Reported in version: 4.9.0
4052874	Description: `UefiSignatureOwner` field is not supported, if this field was populated with data, an exception occurs.
	Workaround: N/A
	Keyword: Redfish; UEFI
	Reported in version: 4.9.0
4049034	Description: On openEuler 22.03 SP3 and openEuler 20.03 SP1, it is not possible to do `yum update` after BFB installation.
	Workaround: Attempt the following: 1. To update DOCA only, disable ALL repos: `dnf --disablerepo='*' --enablerepo='kubernetes,doca' -y update` 2. To update OS components, exclude `rdma-core` using one of the following options:

Ref #	Issue
	◦ Option 1 – Disable `rdma-corem` from `dnf.conf` using `excludepkgs=rdma-core*oe2203sp3*` ◦ Option 2 – Disable `rdma-core` from `openEuler.repo` file under OS and everything using `exclude=rdma-core*` ◦ Option 3 – `yum update -x rdma-core`
	Keyword: openEuler
	Reported in version: 4.9.0
4119852	Description: Redfish communication may be skipped upon reboot immediately following the installation of DOCA BFB-bundle.
	Workaround: Reboot (`SW_RESET`) the BlueField Arm to fix Redfish communication.
	Keyword: RF; installation; connection
	Reported in version: 4.9.0
3935124	Description: The number of rules users can offload depends on the amount of freed up memory on their system.
	Workaround: N/A
	Keyword: Rule; offload
	Reported in version: 4.9.0
4098782	Description: BlueField does not support the `fru print` format because it uses ipmitool version 1.8.18.
	Workaround: Read the information from the host using ipmitool version 1.8.19.
	Keyword: IPMI
	Reported in version: 4.9.0
4129715	Description: Compiling Rocky 9.2 may fail when using GCC with the `native` arch flag.
	Workaround: Upgrade to toolset 13 (gcc 13).
	Keyword: Linux; GCC
	Reported in version: 4.9.0

Ref #	Issue
3957680	Description: Failure to load kernel modules during BFB installation after an upgrade to 2.7.0/4.7.0 (or newer) release from 2.6.0/4.6.0 (or older) release, which results in a downgrade to 2.6.0/4.6.0 (or older) release from 2.7.0/4.7.0 (or newer) release.
	Workaround 1: Before the upgrade that follows a downgrade, delete the expired certificate. Workaround 2: After the upgrade that follows a downgrade, re-install the BFB.
	Keyword: Software
	Reported in version: 4.8.0
3859084	Description: Running `bfb-install` in remote mode may fail if the remote server lacks an up-to-date `nc` software that supports TCP server functionality. This issue is commonly observed with servers such as BlueField BMC.
	Workaround: N/A
	Keyword: bfb-install; TCP
	Reported in version: 4.8.0
3876636	Description: RDMA devices are missing after installing BFB in NIC mode.
	Workaround: An additional BlueField reboot is required
	Keyword: RDMA; reboot; NIC mode
	Reported in version: 4.8.0
3960613	Description: When configuring NVMe-oF target offload on Arm, harmless CMA allocation errors appear at the kernel log.
	Workaround: Increase the CMA limit or cancel its use using the kernel's CMD line parameters: • Add the parameter `cma=256M` to increase the CMA limit to 256MB; or • Add the parameter `cma=0` to disable the use of CMA
	Keyword: NVMe-oF target offload; CMA
	Reported in version: 4.8.0
39	Description: At times, BlueField may boot into grub shell after BFB installation.

Ref #	Issue
3694477	Workaround: Power-cycle the BlueField.
	Keyword: BFB installation; grub shell
	Reported in version: 4.8.0
3837649	Description: Possible stack trace in `mlxbf_i2c` can occur intermittently when booting BFB.
	Workaround: Reboot the BlueField.
	Keyword: Boot
	Reported in version: 4.8.0
3964584	Description: RShim driver is not enabled by default after installation.
	Workaround: Enable RShim driver manually by running `systemctl enable rshim`. Then either reboot or run `systemctl start rshim` to start the RShim driver.
	Keyword: RShim driver
	Reported in version: 4.8.0
3914629	Description: When "Force PXE" is set right before installing a BFB image via BMC RShim, BlueField PXE boot fails to boot from NET-OOB-IPV4.
	Workaround: N/A
	Keyword: PXE boot
	Reported in version: 4.7.0
3239320	Description: Resetting hugepage size to 0 on Rocky Linux 8.6 using the `sysctl` tool fails.
	Workaround: Use the following command instead: `echo 0 > /sys/kernel/mm/hugepages/hugepages-<Size>/nr_hugepages`
	Keyword: Hugepage; sysctl

Ref #	Issue
	Reported in version: 4.7.0
3859113	Description: Reloading MLNX_OFED drivers with the command `/etc/init.d/openibd restart` fails when the NVMe driver is installed and in use.
	Workaround: Reboot the machine to load all the MLNX_OFED drivers.
	Keyword: NVMe; driver
	Reported in version: 4.7.0
3748649	Description: With the numbering of CPUs in an 8-core configuration, the kernel is expected to assign virtual CPU ID numbers from 0-7, where N is the number of cores enabled. With CTyunOS, however, the numbering is unexpected.
	Workaround: N/A
	Keyword: CTyunOS; CPU numbering
	Reported in version: 4.7.0
3756748	Description: When performing BFB push repeatedly, BlueField-3 may in rare instances fail to boot with the message "`PSC error -60`" appearing in the RShim log sometimes.
	Workaround: Reset the card or repeat the operation (bfb push).
	Keyword: BFB Push; FW Reset
	Reported in version: 4.7.0
3665070	Description: Virtio-net controller fails to load if `DPA_AUTHENTICATION` is enabled.
	Workaround: N/A
	Keyword: Virtio-net; DPA
	Reported in version: 4.7.0
3862683	Description: Creating VFs and hotplug PFs in parallel can lead to controller crash.
	Workaround: Create VFs followed by hotplug PF or vice versa.
	Keyword: Virtio-net emulation
	Reported in version: 4.7.0

Ref #	Issue
3840066	Description: On CentOS 7.6 with kernel 4.19, bringing up OVS bridge interface causes call traces: `WARNING: CPU: 5 PID: 14339 at kernel/rcu/tree_plugin.h:342 rcu_note_context_switch+0x48/0x538`
	Workaround: Do not bring UP OVS bridge interfaces.
	Keyword: CentOS; kernel; rcu_note_context_switch
	Reported in version: 4.7.0
3844705	Description: In OpenEuler 20.03, the Linux Kernel version 4.19.90 is affected by an issue that impacts the discard/trim functionality for the DPU eMMC device which may cause degraded performance of the DPU eMMC over time.
	Workaround: Upgrade to Linux Kernel version 5.10 or later.
	Keyword: eMMC discard; trim functionality
	Reported in version: 4.7.0
3877725	Description: During BFB installation in NIC mode on BlueField-3, too much information is added into RShim log which fills it, causing the Linux installation progress log to not appear in the RShim log. `echo "DISPLAY_LEVEL 2" > /dev/rshim0/misc` `cat /dev/rshim0/misc`
	Workaround: Monitor the BlueField-3 Arm's UART console to check whether BFB installation has completed or not for NIC mode. `[13:58:39] INFO: Installation finished` `...` `[14:01:53] INFO: Rebooting...`
	Keyword: NIC mode; BFB install
	Reported in version: 4.7.0
38	Description: Trying to jump from a steering level in the hardware to a lower level using software steering is not supported on `rdma-core` lower than 48.x.

Ref #	Issue
5570 02	Workaround: N/A
	Keyword: RDMA; SWS
	Reported in version: 4.7.0
3743879	Description: `mlxfwreset` could timeout on servers where the RShim driver is running and INTx is not supported. The following error message is printed: `BF reset flow encountered a failure due to a reset state error of negotiation timeout` . Workaround: Set `PCIE_HAS_VFIO=0` and `PCIE_HAS_UIO=0` in `/etc/rshim.conf` and restart the RShim driver. Then re-run the `mlxfwreset` command. If host Linux kernel lockdown is enabled, then manually unbind the RShim driver before `mlxfwreset` and bind it back after `mlxfwreset`: `echo "DROP_MODE 1" > /dev/rshim0/misc` `mlxfwreset <arguments>` `echo "DROP_MODE 0" > /dev/rshim0/misc` Keyword: Timeout; mlxfwreset; INTx Reported in version: 4.7.0
3670361	Description: Rarely, the driver takes more than several minutes to load. Workaround: Re-run `/sbin/mlnx_bf_configure`. Keywords: Driver; boot Reported in version: 4.6.0

Ref #	Issue
3746866	Description: The error message `IANA PEN registry open failed: No such file or directory` may appear when using ipmitool version 1.8.19-7. This message can be safely ignored.
	Workaround: N/A
	Keywords: IPMI; Debian
	Reported in version: 4.6.0
3755143	Description: UEFI synchronous exception is observed at address 0x479B7xxxx where the UEFI module names are not printed. See the following example: `ERR[UEFI]: PC=0x479B78480(B4000040 3900001F A94153F3 F94013F5)` `ERR[UEFI]: PC=0x479B78480` `ERR[UEFI]: PC=0x479B7E684` `ERR[UEFI]: PC=0x47A0E93F4` `ERR[UEFI]: PC=0x47A0E9608`
	Workaround: Run software reset or reinstall the BFB.
	Keywords: UEFI synchronous exception
	Reported in version: 4.6.0
3772177	Description: SSHing to the DPU with Debian 12 can print the following warning: `-bash: warning: setlocale: LC_ALL: cannot change locale (en_US.UTF-8)` .
	Workaround: Run: `sudo dpkg-reconfigure locales`
	Keywords: Debian 12; locale; LC_ALL
	Reported in version: 4.6.0
3770	Description: When the RShim driver is not running on the external host or when the `tmfifo_net0` interface is down on the DPU side, the following kernel warning may

Ref #	Issue
4985	appear on the DPU side: `virtio_net virtio1 tmfifo_net0: TX timeout`.
	Workaround: N/A
	Keywords: RShim; log
	Reported in version: 4.6.0
3767580	Description: On Debian 12, the first boot after BFB installation may fail with the following kernel panic: `[ end Kernel panic - not syncing: Attempted to kill init! exitcode=0x00000100 ]`
	Workaround: Reset the DPU using the RShim interface: `echo "SW_RESET 1" > /dev/rshim0/misc`
	Keywords: Debian 12; Kernel panic; kill init
	Reported in version: 4.6.0
3771601	Description: On Debian 12, `/etc/init.d/openibd restart` fails with the following error: `rmmod: ERROR: Module rdma_cm is in use by: nvme_rdma`
	Workaround: Run: `modprobe -r nvme_rdma; /etc/init.d/openibd restart`
	Keywords: Debian 12; openibd; nvme_rdma
	Reported in version: 4.6.0
368	Description: BlueField-2 supports a total of 120GB of PCIe memory space. When the GPU is configured to be exposed to the BlueField, it requests 32GB of space for its BAR0. The Linux 5.15 kernel also attempts to reserve space for the total number of

Ref #	Issue
603	VFs, even if they are not enabled. By default, the A100 allows 20 VFs which each need 4GB of memory space. Because of PCIe memory alignment requirements and other small devices on the bus, this additional 80GB causes PCIe resource allocation to fail.
	Workaround: Add "pci=realloc=off" to the Linux command line. This will force Linux to accept the resource allocation done by UEFI and allow enumeration to succeed.
	Keyword: VF; kernel; resources
	Reported in version: 4.6.0
3678069	Description: If using DPUs with NVMe and mmcbld and configured to boot from mmcblk, users must create a `bf.cfg` file with `device=/dev/mmcblk0` before installing the `*.bfb`.
	Workaround: N/A
	Keyword: NVMe
	Reported in version: 4.6.0
3747285	Description: The ipmitool command to force PXE in BMC modifies both the IPMI and Redfish request settings. When Redfish is enabled in UEFI, Redfish takes priority, so all PXE boot entries are attempted and before regular boot continues.
	Workaround: Redfish must be disabled if IPMI force PXE retry behavior is expected.
	Keyword: PXE; retry; fail
	Reported in version: 4.6.0
3745529	Description: When rebooting the DPU while the host side is running traffic over bond, TX timeout is likely to occur. This generates a TX timeout recovery flow that may conflict with host recovery attempts from the DPU reboot.
	Workaround: N/A
	Keyword: Bond; timeout
	Reported in version: 4.6.0
3733737	Description: CA certificates in the UEFI are stored in the database provided by the user. It is user responsibility to enroll the correct certificate. The user is the owner of the certificate and should make sure of its validity.
	Workaround: N/A
	Keyword: CA certificates; UEFI

Ref #	Issue
3373374	Reported in version: 4.6.0
	Description: CA certificates in the BMC are owned by the user who is required to enroll valid and correct certificates. If incorrect BMC CA certificates are enrolled, then DPU-BMC redfish communication will be invalid.
	Workaround: N/A
	Keyword: CA certificates; BMC
	Reported in version: 4.6.0
3666574	Description: Running `systemctl restart openibd` on the DPU can result in openvswitch service crash.
	Workaround: Run `/etc/init.d/openvswitch-switch start`.
	Keyword: OVS fail; openibd
	Reported in version: 4.6.0
3880194	Description: `mlxbf-bootctl` command failed to install `default.bfb`.
	Workaround: The following are possible options – • Boot the BFB file `doca_2.5.0_bsp_4.5.0_ubuntu_22.04-1.23-10.prod.bfb` to update the platform software • Download, compile, and install latest `mlxbf-bootctl` command from GitHub • Edit `default.bfb` by using the `mlx-mkbfb` command to incorporate the platform-specific images and filtering out unused images. Example for a BlueField-2 device: `$ mlx-mkbfb -x default.bfb` `$ mlx-mkbfb \` `--bl2r-v1=dump-bl2r-v1 \` `--bl2r-cert-v1=dump-bl2r-cert-v1 \` `--bl2-v1=dump-bl2-v1 \` `--bl2-cert-v1=dump-bl2-cert-v1 \` `--bl31-v1=dump-bl31-v1 \` `--bl31-cert-v1=dump-bl31-cert-v1 \` `--bl31-key-cert-v1=dump-bl31-key-cert-v1 \` `--bl33-v0=dump-bl33-v0 \` `--bl33-cert-v1=dump-bl33-cert-v1 \` `--bl33-key-cert-v1=dump-bl33-key-cert-v1 \`

Ref #	Issue
	--boot-acpi-v0=dump-boot-acpi-v0 \ --boot-args-v0=dump-boot-args-v0 \ --boot-desc-v0=dump-boot-desc-v0 \ --boot-path-v0=dump-boot-path-v0 \ --ddr_ini-v1=dump-ddr_ini-v1 \ --ddr-cert-v1=dump-ddr-cert-v1 \ --ddr_ate_imem-v1=dump-ddr_ate_imem-v1 \ --ddr_ate_dmem-v1=dump-ddr_ate_dmem-v1 \ --snps_images-v1=dump-snps_images-v1 \ --trusted-key-cert-v1=dump-trusted-key-cert-v1 \ default_min.bfb
	Keywords: Software; upgrade
	Discovered in version: 4.5.1
3204153	Description: On BlueField-2, the OOB may not get an IP address due to the interface being down.
	Workaround: restart auto-negotiation using the command `ethtool -r oob_net0`.
	Keyword: OOB; IP
	Reported in version: 4.5.0
3601491	Description: Symmetric pause must be enabled in the DHCP server for the OOB to be able to reliably get an IP address assigned.
	Workaround: N/A
	Keyword: OOB; IP
	Reported in version: 4.5.0
3673330	Description: On Debian 12, Arm ports remain in Legacy mode after multiple Arm reboot iterations. The following error message appears in `/var/log/syslog`: `mlnx_bf_configure[2601]: ERR: Failed to configure switchdev mode for 0000:03:00.0 after 61 retries`
	Workaround: Run:

Ref #	Issue
	`` $ echo SET_MODE_RETRY_NUM=300 >> /etc/mellanox/mlnx-bf.conf $ reboot ```
	Keyword: Debian; Arm
	Reported in version: 4.5.0
3695543	Description: PXE boot may fail after a firmware upgrade from 32.36.xxxx, 32.37.xxxx, to 32.38.xxxx and above.
	Workaround: Create `/etc/bf.cfg` with the following lines, then run `bfcfg` to recreate the PXE boot entries: ``` BOOT0=DISK BOOT1=NET-NIC_P0-IPV4 BOOT2=NET-NIC_P0-IPV6 BOOT3=NET-NIC_P1-IPV4 BOOT4=NET-NIC_P1-IPV6 BOOT5=NET-OOB-IPV4 BOOT6=NET-OOB-IPV6 ```
	Keyword: MAC allocation; PXE boot
	Reported in version: 4.5.0
3647476	Description: Debian 12 OS does not support CT tunnel offload.
	Workaround: Recompile the kernel with `CONFIG_NET_TC_SKB_EXT` set.
	Keyword: Connection tracking; Linux
	Reported in version: 4.5.0
3007 6	Description: When configuring a static IP address for `tmfifo_net0` interface in `/etc/network/interfaces`, the IP address is lost after restarting the RShim driver on Debian Linux.
	Workaround: Use netplan configuration. For example

Ref #	Issue
96	<pre>``` # cat /etc/netplan/tmfifo_net0.yaml network: version: 2 renderer: networkd ethernets: tmfifo_net0: addresses: - 192.168.100.1/30 dhcp4: false ```</pre>
	Then run "netplan apply".
	Keyword: IP address; tmfifo_net0; host
	Reported in version: 4.5.0
3670628	Description: When NIC subsystem is in recovery mode, the interface towards to NVMe is not accessible. Thus, the SSD boot device would not be available.
	Workaround: The admin must configure the Arm subsystem boot device to boot from the eMMC, for example.
	Keyword: mlxfwreset; RShim
	Reported in version: 4.5.0
3702393	Description: On rare occasions, the boot process part of SWRESET (via RShim) or FWRESET (via mlxfwreset) may result in a device hanging on the boot flow or cause the host server to reboot.
	Workaround: Perform graceful shutdown and then a power cycle.
	Keyword: mlxfwreset; RShim
	Reported in version: 4.5.0
3666577	Description: If the UEFI password is an empty string (""), then it cannot be changed via Redfish.
	Workaround: UEFI; password; Redfish
	Keyword: UEFI; password; Redfish

Ref #	Issue
4	Reported in version: 4.5.0
3671185	Description: XFRM rules must be deleted before driver restart or warm reboot are performed.
	Workaround: N/A
	Keyword: IPsec
	Reported in version: 4.5.0
3666160	Description: Installing BFB using `bfb-install` when `mlxconfig` `PF_TOTAL_SF` >1700, triggers server reboot immediately.
	Workaround: Change `PF_TOTAL_SF` to 0, perform graceful shutdown, then power cycle, and then install the BFB.
	Keyword: SF; PF_TOTAL_SF; BFB installation
	Reported in version: 4.2.2
3605254	Description: Following a system power cycle, both the DPU and BMC boot independently which may lead to the DPU's UEFI boot process to complete before the BMC's. As a result, when attempting to establish Redfish communication, the BMC may not yet be prepared to respond.
	Workaround: Wait until the BMC is done booting before issuing a reset command to the DPU.
	Keyword: Power cycle; Redfish; boot
	Reported in version: 4.2.1
3602044	Description: When the public key is deleted while Redfish is enabled, UEFI secure boot is disabled and UEFI reverts to Setup Mode (i.e., the `SecureBootEnable` Redfish property is reset to `false`). If later, the public key is re-enrolled, the platform does not implement UEFI secure boot until the `SecureBootEnable` Redfish property is explicitly changed to `true`.
	Workaround: Set `SecureBootEnable` to true using the Redfish API.
	Keyword: Redfish; UEFI secure boot
	Reported in version: 4.2.1

Ref #	Issue
3592080	Description: When using UEK8 on the host in DPU mode, creating a VF on the host consumes about 100MB memory on the DPU.
	Workaround: N/A
	Keyword: UEK; VF
	Reported in version: 4.2.1
3568341	Description: Downgrading BSP software from 4.2.0 fails if UEFI secure boot is enabled.
	Workaround: Disable UEFI secure boot before downgrading.
	Keyword: Software; downgrade
	Reported in version: 4.2.0
3566042	Description: Virtio hotplug is not supported in GPU-HOST mode on the NVIDIA Converged Accelerator.
	Workaround: N/A
	Keyword: Virtio; Converged Accelerator
	Reported in version: 4.2.0
3546474	Description: PXE boot over ConnectX interface might not work due to an invalid MAC address in the UEFI boot entry.
	Workaround: On the DPU, create `/etc/bf.cfg` file with the relevant PXE boot entries, then run the command `bfcfg`.
	Keyword: PXE; boot; MAC
	Reported in version: 4.2.0
3546202	Description: After rebooting a BlueField-3 DPU running Rocky Linux 8.6 BFB, the kernel log shows the following error: `[ 3.787135] mlxbf_gige MLNXBF17:00: Error getting PHY irq. Use polling instead` This message indicates that the Ethernet driver will function normally in all aspects, except that PHY polling is enabled.

Ref #	Issue
	Workaround: N/A
	Keyword: Linux; PHY; kernel
	Reported in version: 4.2.0
3306489	Description: When performing longevity tests (e.g., mlxfwreset, DPU reboot, burning of new BFBs), a host running an Intel CPU may observer errors related to "CPU 0: Machine Check Exception".
	Workaround: Add `intel_idle.max_cstate=1` entry to the kernel command line.
	Keyword: Longevity; mlxfwreset; DPU reboot
	Reported in version: 4.2.0
3538486	Description: When removing LAG configuration from the DPU, a kernel warning for `uverbs_destroy_ufile_hw` is observed if virtio-net-controller is still running.
	Workaround: Stop virtio-net-controller service before cleaning up bond configuration.
	Keyword: Virtio-net; LAG
	Reported in version: 4.2.0
3462630	Description: When trying to perform a PXE installation when UEFI Secure Boot is enabled, the following error messages may be observed: `error: shim_lock protocol not found.` `error: you need to load the kernel first.`
	Workaround: Download a Grub EFI binary from the Ubuntu website. For further information on Ubuntu UEFI Secure Boot PXE Boot, please visit Ubuntu's official website.
	Keyword: PXE; UEFI Secure Boot
	Reported in version: 4.0.2
341288	Description: Socket-Direct is currently not supported on BlueField-3 devices.
	Workaround: N/A
	Keyword: Socket-Direct; support

Ref #	Issue
47	Reported in version: 4.0.2
3448841	Description: While running CentOS 8.2, switchdev Ethernet DPU runs in "shared" RDMA net namespace mode instead of "exclusive".
	Workaround: Use `ib_core` module parameter `netns_mode=0`. For example: `echo "options ib_core netns_mode=0" >> /etc/modprobe.d/mlnx-bf.conf`
	Keywords: RDMA; isolation; Net NS
	Reported in version: 4.0.2
3413938	Description: Using `mlnx-sf` script, creating and deleting an SF with same ID number in a stressful manner may cause the setup to hang due to a race between create and delete commands.
	Workaround: N/A
	Keywords: Hang; `mlnx-sf`
	Reported in version: 4.0.2
3452740	Description: Ovs-pki is not working due to two versions of OpenSSL being installed, causing the PKA engine to not load properly.
	Workaround: N/A
	Keywords: PKA; OpenSSL
	Reported in version: 4.0.2
3273435	Description: Changing the mode of operation between NIC and DPU modes results in different capabilities for the host driver which might cause unexpected behavior.
	Workaround: Reload the host driver or reboot the host.
	Keywords: Modes of operation; driver
	Reported in version: 4.0.2
270	Description: When an NVMe controller, SoC management controller, and DMA controller are configured, the maximum number of VFs is limited to 124.

Ref #	Issue
68033	Workaround: N/A
	Keywords: VF; limitation
	Reported in version: 4.0.2
3264224	Description: When trying to change boot order using efibootmgr, BlueField fails to attempt PXE boot from `p0` even though efibootmgr returns a successful result.
	Workaround: Drop into the UEFI menu and regenerate all the EFI entries.
	Keywords: PXE; efibootmgr
	Reported in version: 3.9.3.1
3188415	Description: An Arm firmware update to the same version that is installed will fail and is not supported.
	Workaround: N/A
	Keywords: Arm; firmware; update
	Reported in version: 3.9.2
N/A	Description: The `BootOptionEnabled` attribute changes back to true after DPU-force reset.
	Workaround: N/A
	Keywords: Redfish; `BootOptionEnabled`
	Reported in version: 3.9.2
3012182	Description: The command `ethtool -I --show-fec` is not supported by the DPU with kernel 5.4.
	Workaround: N/A
	Keywords: Kernel; show-fec
	Reported in version: 3.9.0
285559	Description: After disabling SR-IOV VF on a virtio device, removing virtio-net/PCIe driver from guest OS may render the virtio controller unusable .
	Workaround: Restart the virtio-net controller to recover it. To avoid this issue, m onitor the log from controller and make sure VF resources are destroyed before unloading virtio-net/PCIe drivers.

Ref #	Issue
86	Keywords: Virtio-net; VF
	Reported in version: 3.9.0
2863456	Description: SA limit by packet count (hard and soft) are supported only on traffic originated from the ECPF. Trying to configure them on VF traffic removes the SA when hard limit is hit. However, traffic could still pass as plain text due to the tunnel offload used in such configuration.
	Workaround: N/A
	Keywords: ASAP2; IPsec Full Offload
	Reported in version: 3.9.0
2982184	Description: When multiple BlueField resets are issued within 10 seconds of each other, EEPROM error messages are displayed on the console and, as a result, the BlueField may not boot from the eMMC and may halt at the UEFI menu.
	Workaround: Power-cycle the BlueField to fix the EEPROM issue. Manual recovery of the boot options and/or SW installation may be needed.
	Keywords: Reset; EEPROM
	Reported in version: 3.9.0
2853408	Description: Some pre-OS environments may fail when sensing a hot plug operation during their boot stage.
	Workaround: Run "`mlxconfig -d <mst dev> set PF_LOG_BAR_SIZE=0`".
	Keywords: BIOS; hot-plug; Virtio-net
	Reported in version: 3.9.0
2934833	Description: Running I/O traffic and toggling both physical ports status in a stressful manner on the receiving-end machine may cause traffic loss.
	Workaround: N/A
	Keywords: MLNX_OFED; RDMA; port toggle
	Reported in version: 3.8.5
2911	Description: ProLiant DL385 Gen10 Plus server with BIOS version 1.3 hangs when large number of SFs (`PF_TOTAL_SF=252`) are configured.
	Workaround: Update the BIOS version to 2.4 which should correctly detect the PCIe

Ref #	Issue
425	device with the bigger BAR size.
	Keywords: Scalable functions; BIOS
	Reported in version: 3.8.5
N/A	Description: Only QP queues are supported for GGA accelerators from this version onward.
	Workaround: N/A
	Keywords: Firmware; SQ; QP
	Reported in version: 3.8.0
2846108	Description: Setting `VHCA_TRUST_LEVEL` does not work when there are active SFs or VFs.
	Workaround: N/A
	Keywords: Firmware; SF; VF
	Reported in version: 3.8.0
2750499	Description: Some devlink commands are only supported by mlnx devlink (`/opt/mellanox/iproute2/sbin/devlink`). The default devlink from the OS may produce failure (e.g., `devlink port show -j`).
	Workaround: N/A
	Keywords: Devlink
	Reported in version: 3.7.1
2730157	Description: Kernel upgrade is not currently supported on BlueField as there are out of tree kernel modules (e.g., ConnectX drivers that will stop working after kernel upgrade).
	Workaround: Kernel can be upgraded if there is a matching DOCA repository that includes all the drivers compiled with the new kernel or as a part of the new BFB package.
	Keywords: Kernel; upgrade
	Reported in version: 3.7.0
270	Description: Call traces are seen on the host when recreating VFs before the controller side finishes the deletion procedure.

Ref #	Issue
67110	Workaround: N/A
	Keywords: Virtio-net controller
	Reported in version: 3.7.0
2685478	Description: 3rd party (netkvm.sys) Virtio-net drivers for Windows do not support SR-IOV.
	Workaround: N/A
	Keywords: Virtio-net; SR-IOV; WinOF-2
	Reported in version: 3.7.0
2684501	Description: Once the contiguous memory pool, a limited resource, is exhausted, fallback allocation to other methods occurs. This process triggers `cma_alloc` failures in the dmesg log.
	Workaround: N/A
	Keywords: Log; cma_alloc; memory
	Reported in version: 3.7.0
2590016	Description: ibdev2netdev tool is not supported for PCIe PF operating in switchdev mode or on SFs.
	Workaround: N/A
	Keywords: ibdev2netdev
	Reported in version: 3.6.0.11699
2590016	Description: A "double free" error is seen when using the "curl" utility. This error is from libcrypto.so library which is part of the OpenSSL package. This happens only when OpenSSL is configured to use a dynamic engine (e.g. Bluefield PKA engine).
	Workaround: Set `OPENSSL_CONF=/etc/ssl/openssl.cnf.orig` before using the curl utility. For example: `# OPENSSL_CONF=/etc/ssl/openssl.cnf.orig curl -O https://tpo.pe/pathogen.vim`

Ref #	Issue
	Note OPENSSL_CONF is aimed at using a custom config file for applications. In this case, it is used to point to a config file where dynamic engine (PKA engine) is not enabled.
	Keywords: OpenSSL; curl
	Reported in version: 3.6.0.11699
2407897	Description: The host may crash when the number of PCIe devices overflows the PCIe device address. According to the PCIe spec, the device address space is 8 bits in total—device (5 bits) and function (3 bits)—which means that the total number of devices cannot be more than 256. The second PF maximum number of VFs is limited by the total number of additional PCIe devices that precedes it. By default, the preceding PCIe devices are 2 PFs + RShim DMA + 127 VFs of the first PF. This means that the maximum valid number of VFs for the second port will be 126.
	Workaround: Use the maximum allowed VFs on the 2nd PCIe PF of BlueField instead of the maximum of 127 VFs.
	Keywords: Emulated devices; VirtIO-net; VirtIO-blk; VFs; RShim
	Reported in version: 3.6.0.11699
2445289	Description: If secure boot is enabled, MFT cannot be installed on the BlueField DPU independently from BlueField drivers (MLNX_OFED).
	Workaround: N/A
	Keywords: MFT; secure boot
	Reported in version: 3.5.1.11601
2377021	Description: Executing `sudo poweroff` on the Arm side causes the system to hang.
	Workaround: Perform graceful shutdown, then reboot your BlueField device or power cycle the server.
	Keywords: Hang; reboot

Ref #	Issue
	Reported in version: 3.5.0.11563
2350132	Description: Boot process hangs at BIOS (version 1.2.11) stage when power cycling a server (model Dell PowerEdge R7525) after configuring "PCI_SWITCH_EMULATION_NUM_PORT" > 27.
	Workaround: N/A
	Keywords: Server; hang; power cycle
	Reported in version: 3.5.0.11563
2581408	Description: On a BlueField device operating in Embedded CPU mode, PXE driver will fail to boot if the Arm side is not fully loaded and the OVS bridge is not configured.
	Workaround: Run warm reboot on the host side and boot again via the device when Arm is up and the OVS bridge is configured.
	Keywords: Embedded CPU; PXE; UEFI; Arm
	Reported in version: 2.5.0.11176
1859322	Description: On some setups, DPU does not power on following server cold boot when UART cable is attached to the same server.
	Workaround: As long as the RShim driver is loaded on the server and the RShim interface is visible, the RShim driver will detect this and auto-reset the card into normal state.
	Keywords: DPU; Arm; Cold Boot
	Reported in version: 2.4.0.11082
1899921	Description: Driver restart fails when SNAP service is running.
	Workaround: Stop the SNAP services nvme_sf and nvme_snap@nvme0, then restart the driver. After the driver loads restart the services.
	Keywords: SNAP
	Reported in version: 2.2.0.11000
191116	Description: Defining namespaces with certain Micron disks (Micron_9300_MTFDHAL3T8TDP) using consecutive attach-ns commands can cause errors.
	Workaround: Add delay between attach-ns commands.
	Keywords: Micron; disk; namespace; attach-ns

Ref #	Issue
18	Reported in version: 2.2.0.11000

Validated and Supported Cables and Modules

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

Supported Cables and Modules for BlueField-3

Cables Lifecycle Legend

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

NDR / 400GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	400GE	980-9I08L-00W003	C-DQ8FNM003-NML	NVIDIA Select 400GbE QSFP-DD AOC 3m	Preliminary
N/A	400GE	980-9I08N-00W005	C-DQ8FNM005-NML	NVIDIA Select 400GbE QSFP-DD AOC 5m	Preliminary
N/A	400GE	980-9I08P-00W010	C-DQ8FNM010-NML	NVIDIA Select 400GbE QSFP-DD AOC 10m	Preliminary
N/A	400GE	980-9I08R-00W020	C-DQ8FNM020-NML	NVIDIA Select 400GbE QSFP-DD AOC 20m	Preliminary
N/A	400GE	980-9I08T-00W050	C-DQ8FNM050-NML	NVIDIA Select 400GbE QSFP-DD AOC 50m	Preliminary
NDR	N/A	980-9I81B-00N004	MCA7J65-N004	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 4m	Prototype
NDR	N/A	980-9I81C-00N005	MCA7J65-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 5m	Prototype
NDR	N/A	980-9I76G-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	980-9I76H-00N005	MCA7J75-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 5m	Prototype
NDR	N/A	980-9I928-00N001	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	980-9I929-00N002	MCP7Y10-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,2m	P-Rel

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
NDR	N/A	980-9I80P-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	980-9I80A-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	980-9I80Q-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	980-9I80B-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	980-9I80C-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	980-9I75R-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	980-9I75D-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	980-9I75S-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	980-9I73U-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-	MFP7E10-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 10m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00N010			
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

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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
NDR	N/A	980-9I55Z-00N050	MFP7E20-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	N/A	980-9I558-00N001	MFP7E30-N001	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 1m	MP
NDR	N/A	980-9I559-00N002	MFP7E30-N002	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 2m	MP
NDR	N/A	980-9I55A-00N003	MFP7E30-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 3m	MP
NDR	N/A	980-9I55B-00N005	MFP7E30-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	N/A	980-9I58C-00N007	MFP7E30-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	N/A	980-9I58D-00N010	MFP7E30-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	N/A	980-9I58E-00N015	MFP7E30-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 15m	MP
NDR	N/A	980-9I58F-	MFP7E30-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 20m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00N020			
NDR	N/A	980-9I58G-00N030	MFP7E30-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	N/A	980-9I580-00N030	MFP7E30-N040	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	N/A	980-9I58H-00N050	MFP7E30-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	N/A	980-9I581-00N050	MFP7E30-N060	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 60m	MP
NDR	N/A	980-9I582-00N050	MFP7E30-N070	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 70m	MP
NDR	N/A	980-9I58I-00N100	MFP7E30-N100	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 100m	MP
NDR	N/A	980-9I58J-00N150	MFP7E30-N150	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 150m	MP
NDR	N/A	980-9I58K-00N003	MFP7E40-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	N/A	980-9I58L-00N005	MFP7E40-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	N/A	980-9I58M-00N007	MFP7E40-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	N/A	980-9I58N-00N010	MFP7E40-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 10m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
NDR	N/A	980-9I56O-00N015	MFP7E40-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	N/A	980-9I56P-00N020	MFP7E40-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	N/A	980-9I56Q-00N030	MFP7E40-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 30m	MP
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

HDR / 200GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	NA	980-9I45L-00H150	MFS1S00-H150E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 150m	EOL [HVM]
HDR	NA	980-9I45O-00H200	MFS1S00-H200E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 200m	EOL [EVT]
NDR	NA	980-9I068-00NM00	MMS1X00-NS400	NVIDIA single port transceiver, 400Gbps, NDR, QSFP112, MPO, 1310nm SMF, up to 500m, flat top	Early BOM
HDR	200GE	980-9I548-	MCP1650-	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00H001	H001E30		
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-	MCP1650-	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2.5m, black	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00V02A	V02AE26	pulltab, 26AWG	
HDR	200GE	980-9I39E-00H001	MCP7H50-H001R30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1m	HVM
HDR	200GE	980-9I99F-00H002	MCP7H50-H002R26	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 2m	HVM
HDR	200GE	980-9I98G-00H01A	MCP7H50-H01AR30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1.5m	HVM
N/A	200GE	980-9I98H-00V001	MCP7H50-V001R30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 1m, 30AWG	LTB [HVM]
N/A	200GE	980-9I98I-00V002	MCP7H50-V002R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2m, 26AWG	LTB [HVM]
N/A	200GE	980-9I98J-00V003	MCP7H50-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 3m, 26AWG	EOL [HVM]
N/A	200GE	980-9I98K-00V01A	MCP7H50-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 1.5m, 30AWG	EOL [HVM]
N/A	200GE	980-9I98M-00V02A	MCP7H50-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2.5m, 26AWG	LTB [HVM]
N/A	200GE	980-9IA3X-	MCP7H70-	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00V001	V001R30	4xSFP56, colored, 1m, 30AWG	
N/A	200GE	980-9IA3Y-00V002	MCP7H70-V002R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 2m, 26AWG	EOL [P-Rel]
N/A	200GE	980-9I43Z-00V003	MCP7H70-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4x4SFP56, colored, 3m, 26AWG	EOL [P-Rel]
N/A	200GE	980-9I430-00V01A	MCP7H70-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1.5m, 30AWG	EOL [P-Rel]
N/A	200GE	980-9I431-00V02A	MCP7H70-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to4x50Gb/s, QSFP56 to 4xSFP56, colored, 2.5m, 26AWG	EOL [P-Rel]
HDR	200GE	980-9I46K-00H001	MCP7Y60-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9I46L-00H002	MCP7Y60-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I93M-00H01A	MCP7Y60-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9I93N-00H001	MCP7Y70-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9I93O-00H002	MCP7Y70-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I47P-00H01A	MCP7Y70-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1.5m, fin to flat	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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-	MFS1S00-	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00H030	H030V		
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]
HDR	200GE	980-9I447-00H050	MFS1S00-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	N/A	980-9I44G-00H100	MFS1S00-H100E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM]
HDR	200GE	980-9I44H-00H100	MFS1S00-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	N/A	980-9I44I-00H130	MFS1S00-H130E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 130m	EOL [HVM]
HDR	200GE	980-9I44K-00H130	MFS1S00-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP
HDR	200GE	980-9I44N-00H150	MFS1S00-H150V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 150m	MP
N/A	200GE	980-9I44P-00V003	MFS1S00-V003E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 3m	LTB [HVM]
N/A	200GE	980-9I45Q-00V005	MFS1S00-V005E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 5m	LTB [HVM]
N/A	200GE	980-9I45R-00V010	MFS1S00-V010E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 10m	LTB [HVM]
N/A	200GE	980-9I44S-00V015	MFS1S00-V015E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 15m	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9I44T-00V020	MFS1S00-V020E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 20m	LTB [HVM]
N/A	200GE	980-9I44U-00V030	MFS1S00-V030E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 30m	LTB [HVM]
N/A	200GE	980-9I44V-00V050	MFS1S00-V050E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 50m	LTB [HVM]
N/A	200GE	980-9I44W-00V100	MFS1S00-V100E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM] [HIBERN/ ATE]
HDR	N/A	980-9I452-00H003	MFS1S50-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	MFS1S50-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM
HDR	N/A	980-9I956-00H005	MFS1S50-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	MFS1S50-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM
HDR	N/A	980-9I95A-00H010	MFS1S50-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	MFS1S50-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	N/A	980-9I95E-00H015	MFS1S50-H015E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 15m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I96H-00H015	MFS1S50-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	N/A	980-9I95I-00H020	MFS1S50-H020E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	200GE	980-9I96L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	N/A	980-9I95M-00H030	MFS1S50-H030E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	200GE	980-9I96P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
HDR	200GE	980-9I95S-00H040	MFS1S50-H040V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 40m	Prototype
HDR	200GE	980-9I95T-00H050	MFS1S50-H050V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 50m	Prototype
N/A	200GE	980-9I95Q-00V003	MFS1S50-V003E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 3m	EOL [HVM]
N/A	200GE	980-9I96R-00V005	MFS1S50-V005E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 5m	EOL [HVM]
N/A	200GE	980-9I96S-00V010	MFS1S50-V010E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 10m	EOL [HVM]
N/A	200GE	980-9I96T-00V015	MFS1S50-V015E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 15m	EOL [HVM]
N/A	200GE	980-9I95U-	MFS1S50-V020E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00V020		2xQSFP56, LSZH, black pulltab, 20m	
N/A	200GE	980-9I95V-00V030	MFS1S50-V030E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 30m	EOL [HVM]
HDR	N/A	980-9I961-00H010	MFS1S90-H010E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 10m	LTB [HVM]
HDR	N/A	980-9I423-00H020	MFS1S90-H020E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 20m	LTB [HVM]
HDR	N/A	980-9I424-00H030	MFS1S90-H030E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	N/A	980-9I17S-00HS00	MMA1T00-HS	NVIDIA transceiver, HDR, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
N/A	200GE	980-9I20T-00V000	MMA1T00-VS	NVIDIA transceiver, 200GbE, up to 200Gb/s, QSFP56, MPO, 850nm, SR4, up to 100m	HVM

EDR / 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I62O-00C001	MCP1600-C001	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1m 30AWG	EOL [HVM]
N/A	100GE	980-9I620-00C001	MCP1600-C001E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1m, Black, 30AWG, CA-N	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I62S-00C001	MCP1600-C001LZ	NVIDIA Passive Copper Cable, ETH 100GbE, 100Gb/s, QSFP, 1m, LSZH, 30AWG	EOL [MP]
N/A	100GE	980-9I621-00C002	MCP1600-C002	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2m 30AWG	EOL [HVM]
N/A	100GE	980-9I622-00C002	MCP1600-C002E26N	NVIDIA® Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 26AWG, CA-N	Preliminary
N/A	100GE	980-9I62V-00C002	MCP1600-C002E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9I62X-00C003	MCP1600-C003	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3m 28AWG	EOL [HVM]
N/A	100GE	980-9I62Z-00C003	MCP1600-C003E26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I620-00C003	MCP1600-C003E30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-9I622-00C003	MCP1600-C003LZ	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, LSZH, 26AWG	EOL [MP]
N/A	100GE	980-9I625-00C005	MCP1600-C005E26L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 26AWG, CA-L	HVM
N/A	100GE	980-9I626-00C00A	MCP1600-C00A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 0.5m 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I627-00C00A	MCP1600-C00AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I629-00C00B	MCP1600-C00BE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.75m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I62B-00C01A	MCP1600-C01A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1.5m 30AWG	EOL [HVM]
N/A	100GE	980-9I62C-00C01A	MCP1600-C01AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9I62G-00C02A	MCP1600-C02A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2.5m 30AWG	EOL [HVM]
N/A	100GE	980-9I62H-00C02A	MCP1600-C02AE26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I62I-00C02A	MCP1600-C02AE30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28,2.5m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-9I62M-00C03A	MCP1600-C03A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3.5m 26AWG	EOL [P-Rel]
EDR	100GE	980-9I62P-00C001	MCP1600-E001	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m 30AWG	EOL [HVM]
EDR	N/A	980-9I62Q-00E001	MCP1600-E001E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1m, Black, 30AWG	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
EDR	100GE	980-9I62S-00C002	MCP1600-E002	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2m 28AWG	EOL [HVM]
EDR	N/A	980-9I62T-00E002	MCP1600-E002E26	NVIDIA® Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 26AWG	Preliminary
EDR	N/A	980-9I62U-00E002	MCP1600-E002E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 30AWG	HVM
EDR	100GE	980-9I62V-00C003	MCP1600-E003	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m 26AWG	EOL [HVM]
EDR	N/A	980-9I62W-00E003	MCP1600-E003E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 3m, Black, 26AWG	HVM
EDR	N/A	980-9I62Y-00E004	MCP1600-E004E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 4m, Black, 26AWG	EOL [HVM]
EDR	N/A	980-9I62Z-00E005	MCP1600-E005E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 5m, Black, 26AWG	HVM
EDR	N/A	980-9I620-00E00A	MCP1600-E00A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 0.5m 30AWG	EOL [HVM]
EDR	N/A	980-9I621-00E00A	MCP1600-E00AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.5m, Black, 30AWG	EOL [HVM]
EDR	N/A	980-9I622-00E00B	MCP1600-E00BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.75m, Black, 30AWG	EOL [HVM] [HIBERN/ATE]
EDR	100GE	980-9I623-00C01A	MCP1600-E01A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1.5m 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
EDR	N/A	980-9I624-00E01A	MCP1600-E01AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.5m, Black, 30AWG	HVM
EDR	N/A	980-9I625-00E01C	MCP1600-E01BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.25m, Black, 30AWG	EOL [HVM] [HIBERN/ ATE]
EDR	100GE	980-9I626-00C02A	MCP1600-E02A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2.5m 26AWG	EOL [HVM]
EDR	N/A	980-9I627-00E02A	MCP1600-E02AE26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2.5m, Black, 26AWG	HVM
N/A	100GE	980-9I645-00C001	MCP7F00-A001R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 1m, 30AWG	EOL [HVM]
N/A	100GE	980-9I486-00C001	MCP7F00-A001R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48A-00C002	MCP7F00-A002R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 2m, 30AWG	EOL [HVM]
N/A	100GE	980-9I48B-00C002	MCP7F00-A002R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48G-00C003	MCP7F00-A003R26N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I48H-00C003	MCP7F00-	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
			A003R30L		
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	980-9I61D-00C001	MCP7H00-G001	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1m, 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I99F-00C001	MCP7H00-G001R	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 1m, 30AWG	EOL [HVM]
N/A	100GE	980-9I99G-00C001	MCP7H00-G001R30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I99J-00C002	MCP7H00-G002R	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 2m, 30AWG	EOL [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	980-9I99O-00C003	MCP7H00-G003R	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 3m, 28AWG	EOL [HVM]
N/A	100GE	980-9I99Q-00C003	MCP7H00-G003R26N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 3m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I39R-00C003	MCP7H00-G003R30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I99S-00C004	MCP7H00-G004R26L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 4m, Colored, 26AWG, CA-L	EOL [HVM]
N/A	100GE	980-9I99W-00C01A	MCP7H00-G01AR	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 1.5m, 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I99X-00C01A	MCP7H00-G01AR30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1.5m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I992-00C02A	MCP7H00-G02AR	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 2.5m, 30AWG	EOL [HVM]
N/A	100GE	980-9I994-00C02A	MCP7H00-G02AR26N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I395-00C02A	MCP7H00-G02AR30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I13S-00C003	MFA1A00-C003	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 3m	HVM
N/A	100GE	980-9I13X-00C005	MFA1A00-C005	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 5m	HVM
N/A	100GE	980-9I134-00C010	MFA1A00-C010	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 10m	HVM
N/A	100GE	980-9I13A-00C015	MFA1A00-C015	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 15m	HVM
N/A	100GE	980-9I13F-00C020	MFA1A00-C020	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 20m	HVM
N/A	100GE	980-9I13N-00C030	MFA1A00-C030	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 30m	HVM
N/A	100GE	980-9I130-	MFA1A00-C050	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 50m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00C050			
N/A	100GE	980-9I13B-00C100	MFA1A00-C100	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]
EDR	N/A	980-9I13D-00E001	MFA1A00-E001	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m	HVM
EDR	N/A	980-9I13F-00E003	MFA1A00-E003	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m	HVM
EDR	N/A	980-9I13J-00E005	MFA1A00-E005	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 5m	HVM
EDR	N/A	980-9I13M-00E007	MFA1A00-E007	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 7m	LTB [HVM]
EDR	N/A	980-9I13O-00E010	MFA1A00-E010	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 10m	HVM
EDR	N/A	980-9I13S-00E015	MFA1A00-E015	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 15m	HVM
EDR	N/A	980-9I13V-00E020	MFA1A00-E020	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 20m	HVM
EDR	N/A	980-9I13Y-00E030	MFA1A00-E030	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 30m	HVM
EDR	N/A	980-9I133-00E050	MFA1A00-E050	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 50m	HVM
EDR	N/A	980-9I135-00E100	MFA1A00-E100	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I37H-00C003	MFA7A20-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3m	EOL [HVM]
N/A	100GE	980-9I37I-00C005	MFA7A20-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 5m	EOL [HVM]
N/A	100GE	980-9I40J-00C010	MFA7A20-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 10m	EOL [HVM]
N/A	100GE	980-9I40K-00C020	MFA7A20-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 20m	EOL [HVM]
N/A	100GE	980-9I40L-00C002	MFA7A20-C02A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 2.5m	Preliminary
N/A	100GE	980-9I40M-00C003	MFA7A20-C03A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3.5m	Preliminary
N/A	100GE	980-9I40N-00C003	MFA7A50-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m	EOL [HVM]
N/A	100GE	980-9I40O-00C005	MFA7A50-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m	EOL [HVM]
N/A	100GE	980-9I49P-00C010	MFA7A50-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 10m	EOL [HVM]
N/A	100GE	980-9I49Q-00C015	MFA7A50-C015	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 15m	EOL [HVM]
N/A	100GE	980-9I49R-00C020	MFA7A50-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 20m	EOL [HVM]
N/A	100GE	980-9I49S-	MFA7A50-C030	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28,	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00C030		30m	
N/A	100GE	980-9I149-00CS00	MMA1B00-C100D	NVIDIA transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI	HVM
N/A	100GE	980-9I17D-00CS00	MMA1B00-C100T	NVIDIA® transceiver, 100GbE, QSFP28, MPO, 850nm, up to 100m, OTU4	Preliminary
EDR	N/A	980-9I17L-00E000	MMA1B00-E100	NVIDIA transceiver, IB EDR, up to 100Gb/s, QSFP28, MPO, 850nm, SR4, up to 100m	HVM
N/A	100GE	980-9I17P-00CR00	MMA1L10-CR	NVIDIA optical transceiver, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, LR4 up to 10km	HVM
N/A	100GE	980-9I17Q-00CM00	MMA1L30-CM	NVIDIA optical module, 100GbE, 100Gb/s, QSFP28, LC-LC, 1310nm, CWDM4, up to 2km	MP
N/A	100GE	980-9I16X-00C000	MMS1C10-CM	NVIDIA active optical module, 100Gb/s, QSFP, MPO, 1310nm, PSM4, up to 500m	EOL [MP]
N/A	100GE	980-9I53X-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

FDR / 56GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	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	MC2207 31V-003	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I15V-00L005	MC2207 31V-005	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 5m	EOL [HVM]
FDR	56GE	980-9I15W-00L010	MC2207 31V-010	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 10m	EOL [HVM]
FDR	56GE	980-9I15X-00L015	MC2207 31V-015	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 15m	EOL [HVM]
FDR	56GE	980-9I15Y-	MC2207 31V-020	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 20m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00L020			
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]
FDR	N/A	980-9I17M-00FS00	MMA1B00-F030D	NVIDIA transceiver, FDR, QSFP+, MPO, 850nm, SR4, up to 30m, DDMI	LTB [HVM]

25GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	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	MC2309124-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
N/A	10GE	980-9I65Q-00J007	MC2309124-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
N/A	10GE	980-9I65R-00J001	MC2309130-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
N/A	10GE	980-9I65S-00J002	MC2309130-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I65T-00J003	MC2309130-003	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
N/A	10GE	980-9I65U-00J00A	MC2309130-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9I682-00J004	MC3309124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
N/A	10GE	980-9I683-00J005	MC3309124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
N/A	10GE	980-9I684-00J006	MC3309124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
N/A	10GE	980-9I685-00J007	MC3309124-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
N/A	10GE	980-9I686-	MC3309130-	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00J001	001		
N/A	10GE	980-9I688-00J002	MC3309130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I68B-00J003	MC3309130-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
N/A	10GE	980-9I68F-00J00A	MC3309130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
N/A	10GE	980-9I68G-00J01A	MC3309130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
N/A	10GE	980-9I68H-00J02A	MC3309130-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
N/A	10GE	980-9I68A-00J001	MCP2100-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
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	980-9I68E-00J001	MCP2104-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Black Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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]
N/A	10GE	980-9I68I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	930-9O000-0000-343	MFM1T02A-LR	NVIDIA SFP+ optical module for 10GBASE-LR	HVM
N/A	10GE	MFM1T02A-LR-F	MFM1T02A-LR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 1310nm, LR up to 10km	HVM
N/A	10GE	930-9O000-0000-409	MFM1T02A-SR	NVIDIA SFP+ optical module for 10GBASE-SR	HVM
N/A	10GE	MFM1T02A-SR-F	MFM1T02A-SR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM
N/A	10GE	MFM1T02A-SR-P	MFM1T02A-SR-P	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM

10GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	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	MC2309124-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	10GE	980-9I65Q-00J007	MC2309124-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
N/A	10GE	980-9I65R-00J001	MC2309130-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
N/A	10GE	980-9I65S-00J002	MC2309130-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I65T-00J003	MC2309130-003	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
N/A	10GE	980-9I65U-00J00A	MC2309130-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9I682-00J004	MC3309124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
N/A	10GE	980-9I683-00J005	MC3309124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
N/A	10GE	980-9I684-00J006	MC3309124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
N/A	10GE	980-9I685-00J007	MC3309124-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
N/A	10GE	980-9I686-00J001	MC3309130-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
N/A	10GE	980-9I688-00J002	MC3309130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
N/A	10GE	980-9I68B-	MC3309130-	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00J003	003		
N/A	10GE	980-9I68F-00J00A	MC3309130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
N/A	10GE	980-9I68G-00J01A	MC3309130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
N/A	10GE	980-9I68H-00J02A	MC3309130-0A2	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	980-9I68E-00J001	MCP2104-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Black Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
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]
N/A	10GE	980-9I68I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	930-9O000-0000-343	MFM1T02A-LR	NVIDIA SFP+ optical module for 10GBASE-LR	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	10GE	930-9O000-0000-409	MFM1T02A-SR	NVIDIA SFP+ optical module for 10GBASE-SR	HVM

1GbE Cables

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

Supported 3rd Party Cables and Modules

Speed	Cable OPN	Description
800 GbE	RTXM600-710	800G OSFP to 2x400G QSFP112 AOC (OSFP rev 113.5.0, QSFP rev 6.0.0)
800 GbE	DME8821-EC30	OSFP to 2×QSFP112 AOC 800Gb/s to 2×400Gb/s Active Optical Cable (OSFP rev 0.1.0, QSFP rev 32.1.0)
800 GbE	C-OSG8CNSxxx-N00	800G OSFP DR8 to 2x400G QSFP112 DR4 AOC
400 GbE	FCBN950QE1C05	400G-2x200G split 5M AOC cables (400G QSFP-DD breaking out to 2x 200G QSFP56) (Rev A0)
400 GbE	RTXM600-610	400G QSFP-DDtoQSFP112AOC (Rev 01)

Speed	Cable OPN	Description
400 GbE	C-GD4CNS010-N00	InnoLight 400G QSFP112 to 400G QSFP-DD active optical cable with full real-time digital diagnostic monitoring (Rev 1A)
400 GbE	DME8811-EC07	400G-2x200G split 7M AOC cables (400G QSFP-DD breaking out to 2x 200G QSFP56) (Rev 12)
400 GbE	RTXM500-910	400G-2x200G split 10M AOC cables (400G QSFP-DD breaking out to 2x 200G QSFP56) (Rev 10)
200 GbE	RTXM500-301-F1	200G QSFP56 SR4 100m Optical Transceiver
200 GbE	RTXM500-905	400G-2x200G split 5M AOC cables (400G QSFP-DD breaking out to 2x 200G QSFP56) (Rev C0)
100 GbE	1AT-3Q4M01XX-12A	O-NET QSFP28 100G Active cable/module
100 GbE	AQPMANQ4EDMA0784	QSFP28 100G SMF 500m Transceiver
100 GbE	CAB-Q-Q-100G-3M	Passive 3 meter, QSFP+ to QSFP+ QSFP100 TWINAX 103.125Gbps-CR4
100 GbE	CAB-Q-Q-100GbE-3M	Passive 3 meter , QSFP+ to QSFP+ QSFP100 TWINAX 103.125Gbps-CR4
100 GbE	FCBN425QE1C30-C1	100GbE Quadwire® QSFP28 Active Optical Cable 30M
100 GbE	FTLC1151RDPL	TRANSCIEVER 100GBE QSFP LR4
100 GbE	FTLC9152RGPL	100G 100M QSFP28 SWDM4 OPT TRANS
100 GbE	FTLC9555REPM3-E6	100m Parallel MMF 100GQSFP28Optical Transceiver
100 GbE	NDAAFJ-C102	SF-NDAAFJ100G-005M
100 GbE	QSFP-100G-AOC30M	30m (98ft) Cisco QSFP-100G-AOC30M Compatible 100G QSFP28 Active Optical Cable
100	QSFP28-LR4-	CISCO-PRE 100GbE LR4 QSFP28 Transceiver Module

Speed	Cable OPN	Description
GbE	AJ	
100 GbE	QSFP-40/100-SRBD	CISCO-PRE 100G AOM BiDi
100 GbE	SQF1002L4LNC101P	Cisco-SUMITOMO 100GbE AOM
40G bE	2231254-2	Cisco 3m 40GbE copper
40G bE	AFBR-7QER15Z-CS1	Cisco 40GbE 15m AOC
40G bE	BN-QS-SP-CBL-5M	PASSIVE COPPER SPLITTER CABLE ETH 40GBE TO 4X10GBE 5M
40G bE	NDCCGJ-C402	15m (49ft) Avago AFBR-7QER15Z Compatible 40G QSFP+ Active Optical Cable
40G bE	QSFP-40G-SR-BD	Cisco 40GBASE-SR-BiDi, duplex MMF

Supported Cables and Modules for BlueField-2

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

NDR Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	400GE	980-9I068-00NM00	MMS1X00-NS400	NVIDIA single port transceiver, 400Gbps, NDR, QSFP112, MPO, 1310nm SMF, up to 500m, flat top	Early BOM
NDR	NA	980-9I81B-00N004	MCA7J65-N004	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 4m	P-Rel
NDR	NA	980-9I81C-00N005	MCA7J65-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112, 5m	P-Rel
NDR	NA	980-9I76G-00N004	MCA7J75-N004	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 4m	P-Rel
NDR	NA	980-9I76H-00N005	MCA7J75-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 5m	P-Rel
NDR	NA	980-9I928-00N001	MCP7Y10-N001	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,1m, fin to flat	P-Rel
NDR	NA	980-9I929-00N002	MCP7Y10-N002	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,2m, fin to flat	P-Rel
NDR	NA	980-9I80P-00N003	MCP7Y10-N003	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,3m, fin to flat	P-Rel
NDR	NA	980-9I80A-00N01A	MCP7Y10-N01A	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,1.5m, fin to flat	P-Rel
NDR	NA	980-9I80Q-00N02A	MCP7Y10-N02A	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,2.5m, fin to flat	P-Rel
NDR	NA	980-9I80B-00N001	MCP7Y40-N001	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 1m, fin to flat	P-Rel

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	NA	980-9I80C-00N002	MCP7Y40-N002	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 2m, fin to flat	P-Rel
NDR	NA	980-9I75R-00N003	MCP7Y40-N003	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 3m, fin to flat	P-Rel
NDR	NA	980-9I75D-00N01A	MCP7Y40-N01A	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 1.5m, fin to flat	P-Rel
NDR	NA	980-9I75S-00N02A	MCP7Y40-N02A	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 2.5m, fin to flat	P-Rel
NDR	NA	980-9I73U-000003	MFP7E10-N003	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 3m	MP
NDR	NA	980-9I73V-000005	MFP7E10-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	NA	980-9I57W-000007	MFP7E10-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	NA	980-9I57X-00N010	MFP7E10-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	NA	980-9I57Y-000015	MFP7E10-N015	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 15m	MP
NDR	NA	980-9I57Z-000020	MFP7E10-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	NA	980-9I573-00N025	MFP7E10-N025	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 25m	MP
NDR	NA	980-9I570-	MFP7E10-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00N030			
NDR	NA	980-9I570-00N035	MFP7E10-N035	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 35m	MP
NDR	NA	980-9I570-00N040	MFP7E10-N040	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	NA	980-9I57Y-00N050	MFP7E10-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	NA	980-9I571-00N003	MFP7E20-N003	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	NA	980-9I572-00N005	MFP7E20-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	NA	980-9I573-00N007	MFP7E20-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	NA	980-9I554-00N010	MFP7E20-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	NA	980-9I555-00N015	MFP7E20-N015	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	NA	980-9I556-00N020	MFP7E20-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	NA	980-9I557-00N030	MFP7E20-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 30m	MP
NDR	NA	980-9I55Z-00N050	MFP7E20-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 50m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	NA	980-9I559-00N002	MFP7E30-N002	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 2m	LTB [MP]
NDR	NA	980-9I55A-00N003	MFP7E30-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 3m	MP
NDR	NA	980-9I55B-00N005	MFP7E30-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	NA	980-9I58C-00N007	MFP7E30-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	NA	980-9I58D-00N010	MFP7E30-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	NA	980-9I58E-00N015	MFP7E30-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 15m	MP
NDR	NA	980-9I58F-00N020	MFP7E30-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	NA	980-9I58G-00N030	MFP7E30-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	NA	980-9I580-00N030	MFP7E30-N040	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	NA	980-9I58H-00N050	MFP7E30-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	NA	980-9I581-00N050	MFP7E30-N060	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 60m	MP
NDR	NA	980-9I582-	MFP7E30-N070	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 70m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00N050			
NDR	NA	980-9I58I-00N100	MFP7E30-N100	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 100m	MP
NDR	NA	980-9I58J-00N150	MFP7E30-N150	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 150m	MP
NDR	NA	980-9I58K-00N003	MFP7E40-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	NA	980-9I58L-00N005	MFP7E40-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	NA	980-9I58M-00N007	MFP7E40-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	NA	980-9I58N-00N010	MFP7E40-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	NA	980-9I56O-00N015	MFP7E40-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	NA	980-9I56P-00N020	MFP7E40-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	NA	980-9I56Q-00N030	MFP7E40-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 30m	MP
NDR	NA	980-9I56R-000050	MFP7E40-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	NA	980-9I693-00NS00	MMA1Z00-NS400	NVIDIA single port transceiver, 400Gbps,NDR, QSFP112, MPO12 APC, 850nm MMF, up to 50m, flat top	P-Rel

HDR / 200GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I548-00H001	MCP1650-H001E30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1m	HVM
HDR	200GE	980-9I549-00H002	MCP1650-H002E26	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 2m	HVM
HDR	200GE	980-9I54A-00H00A	MCP1650-H00AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 0.5m	HVM
HDR	200GE	980-9I54B-00H01A	MCP1650-H01AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1.5 m	HVM
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
HDR	200GE	980-9I46K-00H001	MCP7Y60-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1m, fin to flat	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I46L-00H002	MCP7Y60-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I93M-00H01A	MCP7Y60-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9I93N-00H001	MCP7Y70-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9I93O-00H002	MCP7Y70-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9I47P-00H01A	MCP7Y70-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1.5m, fin to flat	MP
HDR	NA	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	NA	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	NA	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	NA	980-9I45M-	MFS1S00-H015E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab,	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00H015		15m	
HDR	200GE	980-9I45O-00H015	MFS1S00-H015V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 15m	MP
HDR	NA	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	NA	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	NA	980-9I455-00H050	MFS1S00-H050E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 50m	EOL [HVM]
HDR	200GE	980-9I447-00H050	MFS1S00-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	NA	980-9I44G-00H100	MFS1S00-H100E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM]
HDR	200GE	980-9I44H-00H100	MFS1S00-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	NA	980-9I44I-00H130	MFS1S00-H130E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 130m	EOL [HVM]
HDR	200GE	980-9I44K-00H130	MFS1S00-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
HDR	200GE	980-9I44N-00H150	MFS1S00-H150V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 150m	MP
HDR	NA	980-9I452-00H003	MFS1S50-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	MFS1S50-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM
HDR	NA	980-9I956-00H005	MFS1S50-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	MFS1S50-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM
HDR	NA	980-9I95A-00H010	MFS1S50-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	MFS1S50-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	NA	980-9I95E-00H015	MFS1S50-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	MFS1S50-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	NA	980-9I95I-00H020	MFS1S50-H020E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	200GE	980-9I96L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	NA	980-9I95M-	MFS1S50-H030E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00H030		2xQSFP56 , LSZH, 30m	
HDR	200GE	980-9I96P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
HDR	NA	980-9I961-00H010	MFS1S90-H010E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 10m	EOL [HVM]
HDR	NA	980-9I423-00H020	MFS1S90-H020E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	NA	980-9I424-00H030	MFS1S90-H030E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	NA	980-9I17S-00HS00	MMA1T00-HS	NVIDIA transceiver, HDR, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
HDR	200GE	980-9I45E-09H070	MFS1S00-H070V	NVIDIA active optical cable, up to 200Gb/s IB HDR, QSFP56, LSZH, 70m	MP
HDR	200GE	980-9I45L-00H150	MFS1S00-H150E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 150m	EOL [HVM]
HDR	200GE	980-9I45O-00H200	MFS1S00-H200E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 200m	EOL [EVT]

EDR / 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	100GE	980-9I042-	MMS1V70-CM	NVIDIA transceiver, 100GbE, QSFP28, LC-LC, 1310nm, DR1	P-Rel

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00C000			
EDR	100GE	980-9I62P-00C001	MCP1600-E001	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m 30AWG	EOL [HVM]
EDR	NA	980-9I62Q-00E001	MCP1600-E001E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1m, Black, 30AWG	HVM
EDR	100GE	980-9I62S-00C002	MCP1600-E002	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2m 28AWG	EOL [HVM]
EDR	NA	980-9I62T-00E002	MCP1600-E002E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 26AWG	Preliminary
EDR	NA	980-9I62U-00E002	MCP1600-E002E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 30AWG	HVM
EDR	100GE	980-9I62V-00C003	MCP1600-E003	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m 26AWG	EOL [HVM]
EDR	NA	980-9I62W-00E003	MCP1600-E003E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 3m, Black, 26AWG	HVM
EDR	NA	980-9I62Y-00E004	MCP1600-E004E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 4m, Black, 26AWG	EOL [HVM]
EDR	NA	980-9I62Z-00E005	MCP1600-E005E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 5m, Black, 26AWG	HVM
EDR	NA	980-9I620-00E00A	MCP1600-E00A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 0.5m 30AWG	EOL [HVM]
EDR	NA	980-9I621-00E00A	MCP1600-E00AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.5m, Black, 30AWG	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
EDR	NA	980-9I622-00E00B	MCP1600-E00BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 0.75m, Black, 30AWG	EOL [HVM] [HIBERNATE]
EDR	100GE	980-9I623-00C01A	MCP1600-E01A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1.5m 30AWG	EOL [HVM]
EDR	NA	980-9I624-00E01A	MCP1600-E01AE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.5m, Black, 30AWG	HVM
EDR	NA	980-9I625-00E01C	MCP1600-E01BE30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1.25m, Black, 30AWG	EOL [HVM] [HIBERNATE]
EDR	100GE	980-9I626-00C02A	MCP1600-E02A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2.5m 26AWG	EOL [HVM]
EDR	NA	980-9I627-00E02A	MCP1600-E02AE26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2.5m, Black, 26AWG	LTB [HVM]
EDR	NA	980-9I13D-00E001	MFA1A00-E001	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m	EOL [HVM]
EDR	NA	980-9I13F-00E003	MFA1A00-E003	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m	EOL [HVM]
EDR	NA	980-9I13J-00E005	MFA1A00-E005	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 5m	HVM
EDR	NA	980-9I13M-00E007	MFA1A00-E007	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 7m	EOL [HVM]
EDR	NA	980-9I13O-00E010	MFA1A00-E010	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 10m	HVM
EDR	NA	980-9I13S-	MFA1A00-E015	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 15m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00E015			
EDR	NA	980-9I13V-00E020	MFA1A00-E020	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 20m	HVM
EDR	NA	980-9I13Y-00E030	MFA1A00-E030	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 30m	HVM
EDR	NA	980-9I133-00E050	MFA1A00-E050	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 50m	EOL [HVM]
EDR	NA	980-9I135-00E100	MFA1A00-E100	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 100m	EOL [HVM]
EDR	NA	980-9I17L-00E000	MMA1B00-E100	NVIDIA transceiver, IB EDR, up to 100Gb/s, QSFP28, MPO, 850nm, SR4, up to 100m	HVM

FDR / 56GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	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-	MC2207130-001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00L001			
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	MC2207 31V-003	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I15V-00L005	MC2207 31V-005	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 5m	EOL [HVM]
FDR	56GE	980-9I15W-00L010	MC2207 31V-010	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 10m	EOL [HVM]
FDR	56GE	980-9I15X-00L015	MC2207 31V-015	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 15m	EOL [HVM]
FDR	56GE	980-9I15Y-00L020	MC2207 31V-020	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 20m	EOL [HVM]
FDR	56GE	980-9I15Z-00L025	MC2207 31V-025	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 25m	EOL [HVM]
FDR	56GE	980-9I150-00L030	MC2207 31V-030	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 30m	EOL [HVM]
FDR	56GE	980-9I151-00L040	MC2207 31V-040	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 40m	EOL [HVM] [HIBERNATE]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
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	980-9I676-00L002	MCP170L-F002	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 2m	EOS
FDR	56GE	980-9I677-00L003	MCP170L-F003	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 3m	EOS
FDR	NA	980-9I17M-00FS00	MMA1B00-F030D	NVIDIA transceiver, FDR, QSFP+, MPO, 850nm, SR4, up to 30m, DDMI	EOL [HVM]

50GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
N/A	50GE	980-9I44S-00G001	P16051-001	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 1m, black pulltab, 30AWG	Preliminary
N/A	50GE	980-9I98T-00G02A	P16052-001	NVIDIA Passive Copper cable, 50GbE, 50Gb/s, SFP56, LSZH, 2.5m, black pulltab, 26AWG	Preliminary

40GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	40GE	980-9I666-00B004	MC2210126-004	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 4m	EOL [HVM]
NA	40GE	980-9I667-00B005	MC2210126-005	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 5m	EOL [HVM]
NA	40GE	980-9I668-00B003	MC2210128-003	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m	EOL [HVM]
NA	40GE	980-9I66A-00B001	MC2210130-001	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m	EOL [HVM]
NA	40GE	980-9I66C-00B002	MC2210130-002	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m	EOL [HVM]
NA	40GE	980-9I14D-00B003	MC2210310-003	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 3m	EOL [MP]
NA	40GE	980-9I14E-00B005	MC2210310-005	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 5m	EOL [MP]
NA	40GE	980-9I14F-00B010	MC2210310-010	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 10m	EOL [MP]
NA	40GE	980-9I14G-00B015	MC2210310-015	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 15m	EOL [MP]
NA	40GE	980-9I14H-00B020	MC2210310-020	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 20m	EOL [MP]
NA	40GE	980-9I14I-00B030	MC2210310-030	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 30m	EOL [MP]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	40GE	980-9I14J-00B050	MC2210310-050	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 50m	EOL [MP]
NA	40GE	980-9I14K-00B100	MC2210310-100	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 100m	EOL [MP]
NA	40GE	980-9I64V-00B005	MC2609125-005	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 5m	EOL [P-Rel]
NA	40GE	980-9I64W-00B001	MC2609130-001	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1m	EOL [HVM]
NA	40GE	980-9I64Y-00B003	MC2609130-003	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 3m	EOL [HVM]
NA	40GE	980-9I72A-00B010	MCA7J60-C003	NVIDIA® passive fiber hybrid cable, MPO to 8xLC, 10m	Preliminary
NA	40GE	980-9I72H-00B010	MCA7J70-C003	NVIDIA® passive fiber hybrid cable, MPO to 8xLC, 10m	Preliminary
NA	40GE	980-9I66U-00B001	MCP1700-B001E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m, Black Pulltab	EOL [HVM]
NA	40GE	980-9I66V-00B002	MCP1700-B002E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m, Black Pulltab	EOL [HVM]
NA	40GE	980-9I66W-00B003	MCP1700-B003E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m, Black Pulltab	EOL [HVM]
NA	40GE	980-9I66X-00B01A	MCP1700-B01AE	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1.5m, Black Pulltab	EOL [MP]
NA	40GE	980-9I66Y-	MCP1700-	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2.5m, Black Pulltab	EOL [MP]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00B02A	B02AE		
NA	40GE	980-9I64X-00B01A	MCP7900-X01AA	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1.5m, Blue Pulltab, customized label	EOL [P-Rel] [HIBERNATE]
NA	40GE	980-9I640-00B002	MCP7904-X002A	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 2m, Black Pulltab, customized label	EOL [HVM]
NA	40GE	980-9I641-00B003	MCP7904-X003A	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 3m, Black Pulltab, customized label	EOL [HVM] [HIBERNATE]
NA	40GE	980-9I642-00B01A	MCP7904-X01AA	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1.5m, Black Pulltab, customized label	EOL [HVM]
NA	40GE	980-9I643-00B02A	MCP7904-X02AA	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 2.5m, Black Pulltab, customized label	EOL [P-Rel] [HIBERNATE]
NA	40GE	980-9I426-00BM00	MMA1B00-B150D	NVIDIA transceiver, 40GbE, QSFP+, MPO, 850nm, SR4, up to 150m, DDMI	EOL [HVM]

25GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	25GE	980-9I78I-00A000	MAM1Q00A-QSA28	NVIDIA cable module, ETH 25GbE, 100Gb/s to 25Gb/s, QSFP28 to SFP28	HVM

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	25GE	980-9I63J-00A001	MCP2M00-A001	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, 30AWG	EOL [HVM]
NA	25GE	980-9I63L-00A001	MCP2M00-A001E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63N-00A002	MCP2M00-A002E26N	NVIDIA® Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 26AWG, CA-N	Preliminary
NA	25GE	980-9I63O-00A002	MCP2M00-A002E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63R-00A003	MCP2M00-A003E26N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63S-00A003	MCP2M00-A003E30L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 30AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63T-00A004	MCP2M00-A004E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 4m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63V-00A005	MCP2M00-A005E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 5m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9I63W-00A00A	MCP2M00-A00A	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, 30AWG	EOL [HVM]
NA	25GE	980-9I63X-00A00A	MCP2M00-A00AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I63Z-00A01A	MCP2M00-A01AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9I631-	MCP2M00-	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black,	EOL [HVM]

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

10GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	10GE	980-9I71G-00J000	MAM1Q00A-QSA	NVIDIA cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	HVM
NA	10GE	980-9I65P-00J005	MC2309124-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
NA	10GE	980-9I65Q-00J007	MC2309124-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
NA	10GE	980-9I65R-00J001	MC2309130-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
NA	10GE	980-9I65S-00J002	MC2309130-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
NA	10GE	980-9I65T-00J003	MC2309130-003	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
NA	10GE	980-9I65U-00J00A	MC2309130-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERNATE]
NA	10GE	980-9I682-00J004	MC3309124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
NA	10GE	980-9I683-00J005	MC3309124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
NA	10GE	980-9I684-00J006	MC3309124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	10GE	980-9I685-00J007	MC3309124-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
NA	10GE	980-9I686-00J001	MC3309130-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
NA	10GE	980-9I688-00J002	MC3309130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
NA	10GE	980-9I68B-00J003	MC3309130-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
NA	10GE	980-9I68F-00J00A	MC3309130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
NA	10GE	980-9I68G-00J01A	MC3309130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
NA	10GE	980-9I68H-00J02A	MC3309130-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
NA	10GE	980-9I68A-00J001	MCP2100-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Blue Pulltab, Connector Label	EOS
NA	10GE	980-9I68B-00J002	MCP2100-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERNATE]
NA	10GE	980-9I68C-00J003	MCP2100-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68E-00J001	MCP2104-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Black Pulltab, Connector Label	EOL [HVM] [HIBERNATE]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	10GE	980-9I68F-00J002	MCP2104-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68G-00J003	MCP2104-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68H-00J01A	MCP2104-X01AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9I68I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	930-9O000-0000-343	MFM1T02A-LR	NVIDIA SFP+ optical module for 10GBASE-LR	HVM
NA	10GE	MFM1T02A-LR-F	MFM1T02A-LR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 1310nm, LR up to 10km	HVM
NA	10GE	930-9O000-0000-409	MFM1T02A-SR	NVIDIA SFP+ optical module for 10GBASE-SR	HVM
NA	10GE	MFM1T02A-SR-F	MFM1T02A-SR-F	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM
NA	10GE	MFM1T02A-SR-P	MFM1T02A-SR-P	NVIDIA optical module, ETH 10GbE, 10Gb/s, SFP+, LC-LC, 850nm, SR up to 300m	HVM

1GbE Cables

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

Supported 3rd Party Cables and Modules

Speed	Cable OPN	Description
100GbE	FTLC9555REPM3-HD	100m Parallel MMF 100G QSFP28 Optical Transceiver
25GE	AFBR-735ASMZ-HT1	25GE SFP28 for Multi-Mode Optical Fiber, 850nm, 0-85°C, Dual rate 25G BASE-SR and 10G BASE-SR, Ethernet Optical Transceiver

Release Notes Change Log History

Changes and New Features in 4.9.0

- In the devlink and mlxdevm APIs, added support for setting a maximum number of completion event queues for SFs. Setting I/O completion EQs causes the netdev of the SF to use an equal number of TX and RX channels as I/O completion EQs.
- Added the ability to designate a part of BlueField-3's L3 cache as exclusive to NIC.

> **Note**
>
> Allocating more exclusive cache to NIC improves networking performance at the expense of applications running on the BlueField-3 Arm OS.

- Enhanced firmware reset flow for Sync1 utilizing community-accepted hot reset kernel flow
- BlueField B3220 DDR speed can be configured to either 5200Mhz or 5600Mhz using the Arm UEFI menu if the hardware revision supports these speeds.

> **Info**
>
> DDR speed default remains 5200Mhz to maintain backward compatibility.

- Added support to the `bfcfg` script to dump extra system configuration information. The `-l` parameter can be used along with `-d` to set the dump level.

Changes and New Features in 4.8.0

- Added support for bf.cfg file of size up to 128 KB
- Added support for transferring ownership of RShim driver from the host to the BlueField BMC
- Introduced new behavior for 150W platforms where, to ensure proper operation of the BlueField, ATF will not boot BlueField-3 platforms if the ATX +12V is not connected

Changes and New Features in 4.7.0

- Added support for new BlueField reset and reboot procedures for loading new firmware and firmware configuration changes which replace previous need for server power cycle
- Updated the default operation mode of SuperNICs to NIC mode (from DPU mode). This is relevant to the following SKUs:
  - 900-9D3B4-00CC-EA0
  - 900-9D3B4-00SC-EA0
  - 900-9D3B4-00CV-EA0
  - 900-9D3B4-00SV-EA0
  - 900-9D3B4-00EN-EA0
  - 900-9D3B4-00PN-EA0
  - 900-9D3D4-00EN-HA0
  - 900-9D3D4-00NN-HA0

> **Note**

When upgrading one of these SuperNICs to 2.7.0, if its mode of operation was changed at any point in the past, then the last configured mode of operation will remain unchanged. Otherwise, the SuperNIC will rise in NIC operation mode.

- Installing the BFB Bundle now performs NIC firmware update by default
- Added ability to install NIC firmware and BMC software in NIC mode in NVIDIA® BlueField®-3.

Note

It is important to note the following:

- During BFB Bundle installation, Linux is expected to boot to upgrade NIC firmware and BMC software
- As Linux is booting during BFB Bundle installation, it is expected for the mlx5 core driver to timeout on the BlueField Arm
- During the BFB Bundle installation, it is expected for the mlx5 driver to error messages on the x86 host. These prints may be ignored as they are resolved by a mandatory, post-installation power cycle.
- It is mandatory to power cycle the host after the installation is complete for the changes to take effect

- Software packaging – new BlueField firmware bundle package (`bf-fwbundle-<version>.prod.bfb`), a smaller image for Day 2 upgrades, without the OS and DOCA runtime. Includes ATF, UEFI, nic-fw, bmc-fw, and eROT only.
- Improved BlueField BMC robustness –
  - Report LLDP for L2 discovery via Redfish

    - Improved BlueField DPU debuggability

- Increased support for virtio-net VF devices on BlueField-3 networking platforms to 2K
- Reduced power consumption for BlueField NIC mode
- RAS
    - Report DDR Error to OS, including both single-bit ECC error and UCE error
    - Support error injection in processors, memory, and PCIe devices

Changes and New Features in 4.6.0

- Updated minimum UEFI password requirements
- Included DPU BMC firmware as part of the BFB image
- Added virtio-net support for plugging/unplugging parallel devices
- Implemented virtio debug enhancements

Changes and New Features in 4.5.0

- Added Redfish support for configuring all UEFI secure boot settings (disable, enable, enroll user keys, etc.) at scale, remotely, and securely
- For FHHL DPUs, added support for performing PCIe bifurcation configuration via MFT tool

> **Note**
>
> Only a subset of configurations are supported.

- Updated the print of the manufacturing (MFG) setting, `MFG_OOB_MAC`, displayed by the command `bfcfg -d` to appear in lower-case to align with standard Linux tools

Changes and New Features in 4.2.0

> **Note**
>
> Upgrading to this BSP version installs a new version of Ubuntu GRUB. This version of GRUB revokes the old UEFI secure boot certificates and install new ones. The new certificates will not validate older images and boot will fail. Therefore, to roll back to older software versions, users must disable UEFI secure boot.

- BFB installation chooses the on-chip NVMe (`/dev/nvme0n1`) by default for the EFI system partition and Linux rootfs installation and can be overloaded with `device=/dev/mmcblk0` in `bf.cfg` to push together with the BFB.

  > **Info**
  >
  > Installing on NVMe causes DPU booting to stay at the UEFI shell when changing to Livefish mode.

  > **Info**
  >
  > A previously installed OS on the eMMC device stays intact. Only the EFI boot entry is updated to boot from the SSD device.

Changes and New Features in 4.0.3

- BlueField-3 tuning update for power and performance

Changes and New Features in 4.0.2

- BlueField-3 power-capping and thermal-throttling
- Added Linux `fsck` to boot flow
- Log PCIe errors (to RShim log)
- Halt uncorrectable double-bit ECC error on DDR

Changes and New Features in 3.9.3

- Added support for live migration of VirtIO-net and VirtIO-blk VFs from one VM to another. Requires working with the new vDPA driver.
- OS configuration – enabled tmpfs in `/tmp`

Changes and New Features in 3.9.2

- Added support for Arm host
- Enroll new NVIDIA certificates to DPU UEFI database

> ⚠ **Warning**
>
> **Important:** User action required! See known issue #3077361 for details.

Changes and New Features in 3.9.0

> ⓘ **Note**
>
> This is the last release to offer GA support for first-generation NVIDIA® BlueField® DPUs.

- Added support for NIC mode of operation

- Added password protection to change boot parameters in GRUB menu
- Added IB support for DOCA runtime and dev environment
- Implemented RShim PF interrupts
- Virtio-net-controller is split to 2 processes for fast recovery after service restart
- Added support for live virtio-net controller upgrade instead of performing a full restart
- Expanded BlueField-2 PCIe bus number range to 254 (0-253)
- Added a new CAP field, `log_max_queue_depth` (value can be set to `2K`/`4K`), to indicate the maximal NVMe SQ and CQ sizes supported by firmware. This can be used by NVMe controllers or by non-NVMe drivers which do not rely on NVMe CAP field.
- Added ability for the RShim driver to still work when the host is in secure boot mode
- Added `bfb-info` command which provides the breakdown of the software components bundled in the BFB package
- Added support for rate limiting VF groups

Changes and New Features in 3.8.5

- PXE boot option is enabled automatically and is available for the ConnectX and OOB network interfaces
- Added Vendor Class option "BF2Client" in DHCP request for PXE boot to identify card
- Updated the "force PXE" functionality to continue to retry PXE boot entries until successful. A configuration called "boot override retry" has been added. With this configured, UEFI does not rebuild the boot entries after all boot options are attempted but loops through the PXE boot options until booting is successful. Once successful, the boot override entry configuration is disabled and would need to be reenabled for future boots.
- Added ability to change the CPU clock dynamically according to the temperature and other sensors of the DPU. If the power consumption reaches close to the maximum allowed, the software module decreases the CPU clock rate to ensure that the power consumption does not cross the system limit.

> **Note**
>
> This feature is relevant only for OPNs MBF2H516C-CESOT, MBF2M516C-EECOT, MBF2H516C-EESOT, and MBF2H516C-CECOT.

- Bug fixes

Changes and New Features in 3.8.0

- Added ability to perform warm reboot on BlueField-2 based devices
- Added support for DPU BMC with OpenBMC
- Added support for NVIDIA Converged Accelerator (900-21004-0030-000)

Bug Fixes History

Ref #	Issue Description
3836598	Description: BIOS attribute in Redfish schema "SPCR UART" does not comply with expected format.
	Keyword: Redfish; BIOS
	Fixed in version: 4.9.0
4035187	Description: When eMMC is stuck, Linux tries to recover it including resetting the eMMC itself and re-initializing it.
	Keyword: eMMC stuck
	Fixed in version: 4.9.0
3894907	Description: eMMC clock toggling loop is observed after boot is completed.
	Keyword: eMMC; GPIO; toggling
	Fixed in version: 4.8.0
3863011	Description: Restarting openibd results in kernel panic after modifying kernel IPsec configurations.
	Keyword: IPsec
	Fixed in version: 4.8.0
3878458	Description: `/usr/lib/udev/rules.d/80-ifupdown.rules` runs `/lib/udev/ifupdown-hotplug` which uses ifquery for all newly created interfaces. This dramatically slows down SF interfaces creation.
	Keyword: Subfunction
	Fixed in version: 4.8.0
3901511	Description: Failure to verify measurements when UEFI secure boot is enabled.
	Keyword: UEFI Secure Boot
	Fixed in version: 4.8.0
3875	Description: After the BFB installation, the root partition UUID in `/etc/fstab` does not match current partition UUID. As a result root partition is mounted as

Ref #	Issue Description
394	read-only: `/dev/nvme0n1p2 on / type xfs (ro,relatime,attr2,inode64,logbufs=8,logbsize=32k,noquota)` .
	Keyword: Read-only; OL; UUID
	Fixed in version: 4.8.0
3881941	Description: When working with RShim 2.0.28, PCIe host crash may rarely occur at the beginning of BFB push after the Arm reset.
	Keyword: RShim; driver
	Fixed in version: 4.8.0
3886315	Description: To reset or shut down the BlueField Arm, it is mandatory to specify the `--sync 0` argument. For example: `mlxfwreset -d <device> -l 1 -t 4 --sync 0  r`
	Keyword: Arm; shutdown
	Fixed in version: 4.8.0
3956210	Description: BMC version change using BFB installation can fail if the previous BMC version change process did not finish.
	Keyword: BMC
	Fixed in version: 4.8.0
3950114	Description: QP number can go beyond 0xFFFF. Change datatype to uint32_t to hold entire value.
	Keyword: Virtnet
	Fixed in version: 4.8.0
3980842	Description: Openibd queries deprecated parameter `ECPF_ESWITCH_MANAGER` until the query times out.
	Keyword: Service; openibd
	Fixed in version: 4.8.0
3948	Description: The command `bfcfg -d` may show an incorrect OOB MAC address.

Ref #	Issue Description
009	Keywords: OOB; MAC
	Fixed in version: 4.8.0
3814526	Description: Kubernetes official repository changed location and it causes apt/yum failures on BlueField OSes older than BSP 4.7.0 (DOCA 2.7.0).
	Keywords: Kubernetes; OS
	Fixed in version: 4.7.0
3814526	Description: The location of the official Kubernetes repository changed, causing apt/yum failures.
	Keywords: Kubernetes
	Fixed in version: 4.7.0
3820661	Description: Virtio-net may see TX timeout on specific queues.
	Keywords: Emulated devices
	Fixed in version: 4.7.0
3850459	Description: BMC components update fails while using default BMC root password.
	Keywords: BMC; update
	Fixed in version: 4.7.0
3774088	Description: When enrolling a certificate to the UEFI DB, the failure message "`ERROR: Unsupported file type!`" is displayed when the DB was full.
	Keywords: SNAP; UEFI; error
	Fixed in version: 4.7.0
3787003	Description: Host PCIe driver hangs when hot plugging a device due to SF creation and error flow handling failure.
	Keywords: Subfunction; hot-plug
	Fixed in version: 4.7.0
3663398	Description: On rare occasions, OP-TEE may panic upon boot.
	Keywords: fTPM over OP-TEE
	Fixed in version: 4.7.0
3677	Description: On rare occasions, the devices `/dev/tpm0` and `/dev/tpmrm0` are not created triggering an fTPM panic during boot. This message indicates that the

Ref #	Issue Description
366	fTPM over OP-TEE feature is not functional.
	Keywords: fTPM over OP-TEE
	Fixed in version: 4.7.0
3712916	Description: The following fTMP over OP-TEE error appears when booting BlueField: `ftpm-tee PRP0001:01: ftpm_tee_probe: tee_client_open_session failed, err=ffff3024`
	Keywords: fTPM over OP-TEE
	Fixed in version: 4.7.0
3830034	Description: The following bfscripts have been deprecated and may no longer work as expected: bfinst, bfdracut, bfacpievt. These scripts are no longer supported and will eventually be removed. Warning logs have been added to notify users.
	Keywords: Deprecated bfscripts
	Fixed in version: 4.7.0
3618936	Description: When moving to DPU mode from NIC mode, it is necessary to reinstall the BFB and perform a graceful reboot to the DPU by shutting down the Arm cores before rebooting the host system.
	Keywords: NIC mode
	Fixed in version: 4.7.0
3603146	Description: Running `mlxfwreset` on BlueField-3 may cause the external host to crash when the RShim driver is running on that host.
	Keywords: RShim; mlxfwreset
	Fixed in version: 4.7.0
3444073	Description: `mlxfwreset` is not supported in this release.
	Keywords: mlxfwreset; support
	Fixed in version: 4.7.0

Ref #	Issue Description
3660460	Description: Ubuntu kernel 5.15.0-88-generic backports a bug from the upstream kernel which results in virtio-net full emulation not functioning.
	Keywords: Kernel
	Fixed in version: 4.6.0
3695367	Description: For BlueField-2, although an option to configure "large ICM size" appears in the UEFI menu it is not functional as large ICM size is not supported on it.
	Keywords: UEFI
	Fixed in version: 4.6.0
3571285	Description: Intermittent UEFI/grub exception after many power-cycles: `Call Stack: Synchronous Exception at 0xF4B72E0C` `ERR[UEFI]: PC=0xF4B72E0C` `ERR[UEFI]: PC=0xF4B72E70` `ERR[UEFI]: PC=0xF4B73570` `ERR[UEFI]: PC=0xF4B74904` `ERR[UEFI]: PC=0xF4F04444` `ERR[UEFI]: PC=0xF4F044F8` `ERR[UEFI]: PC=0xF4F05160` `ERR[UEFI]: PC=0xF4F02030` `ERR[UEFI]: PC=0xFDFC3A38 (0xFDFB0000+0x13A38) [ 1] DxeCore.dll` `ERR[UEFI]: PC=0xF56E3594 (0xF56D4000+0xF594) [ 2] BdsDxe.dll` `ERR[UEFI]: PC=0xF56F1FFC (0xF56D4000+0x1DFFC) [ 2] BdsDxe.dll` `ERR[UEFI]: PC=0xF56F40D4 (0xF56D4000+0x200D4) [ 2] BdsDxe.dll` `ERR[UEFI]: PC=0xFDFC6E50 (0xFDFB0000+0x16E50) [ 3] DxeCore.dll` `ERR[UEFI]: PC=0x880092E0` `ERR[UEFI]: PC=0x8800947C` `ERR[UEFI]: X0=0x0 X1=0xF4B78FC3 X2=0xE X3=0x0`

Ref #	Issue Description
	`` ERR[UEFI]: X4=0x0 X5=0xFFFFFFFFFFFFFFF8 X6=0x0 X7=0xFFFFFFF5 ERR[UEFI]: X8=0xF4B79480 X9=0x2 X10=0xFFFFFFFFFFFFFFFF X11=0xFFFFDC00 ```
	Keyword: Security
	Fixed in version: 4.5.0
3599839	Description: On a reboot following BFB install, the error message "Boot Image update completed, Status: Volume Corrupt" is observed. The error is non-functional and may be safely ignored.
	Keyword: Software provisioning; EFI capsule update; eMMC boot partitions
	Fixed in version: 4.5.0
3556795	Description: The first uplink representor interface may not be renamed to `p0` from `ethX` .
	Keyword: Representors
	Fixed in version: 4.5.0
3629875	Description: Fixed base address of static ICM .
	Keyword: ICM
	Fixed in version: 4.5.0
33653633	Description: On BlueField-3, when booting virtio-net emulation device using a GRUB2 bootloader, the bootloader may attempt to close and re-open the virtio-net device. This can result in unexpected behavior and possible system failure to boot.
	Keywords: BlueField-3; virtio-net; UEFI
	Fixed in version: 4.5.0
3373849	Description: Different OVS-based packages can include their own systemd services which prevents `/sbin/mlnx_bf_configure` from identifying the right one.
	Keywords: OVS; systemd
	Fixed in version: 4.5.0

Ref #	Issue Description
3605332	Description: A dmseg is printed due to the OVS bridge interface being configured DOWN by default.
	Keyword: OVS
	Fixed in version: 4.2.1
34790400	Description: For non-LSO data, a max chain of 4 descriptors is posted onto the send queue resulting in a partial packet going out on the wire.
	Keyword: Send; LSO
	Fixed in version: 4.2.1
35497845	Description: NVMe and mlx5_core drivers fail during BFB installation. As a result, Anolis OS cannot be installed on the SSD and the `mlxfwreset` command does not work during Anolis BFB installation.
	Keyword: Linux; NVMe; BFB installation
	Fixed in version: 4.2.1
33933166	Description: When LSO is enabled, if the header and data appear in the same fragment, the following warning is given from tcpdump: `truncated-ip - 9 bytes missing`
	Keyword: Virtio-net; large send offload
	Fixed in version: 4.2.1
35541288	Description: "`dmidecode`" output does not match "`ipmitool fru print`" output.
	Keywords: IPMI; print
	Fixed in version: 4.2.1
35080188	Description: Failure to ssh to Arm via 1GbE OOB interface is experienced after performing warm reboot on the DPU.
	Keywords: SSH; reboot
	Fixed in version: 4.2.0
3451	Description: BSP build number (fourth digit in version number) does not appear in UEFI menu.

Ref #	Issue Description
539	Keywords: UEFI; software
	Fixed in version: 4.2.0
3259805	Description: Following many power cycles on the BlueField DPU, the virtio-net controller may fail to start with the error `failed to register epoll` in the log.
	Keywords: Virtio-net; power cycle; epoll
	Fixed in version: 4.2.0
32661800	Description: Enabled reset on MMC to enhance recovery on error.
	Keywords: MMC; reset
	Fixed in version: 4.2.0
34482217	Description: The PKA engine is not working on CentOS 7.6 due to multiple OpenSSL versions (1.0.2k 1.1.1k) being installed and the library loader not selecting the correct version of the openssl library.
	Keywords: PKA; OpenSSL
	Fixed in version: 4.2.0
34482228	Description: On virtio-net devices with LSO (large send offload) enabled, bogus packets may be captured on the SF representor when running heavy `iperf` traffic.
	Keywords: Virtio-net; iperf
	Fixed in version: 4.2.0
34525833	Description: OpenSSL is not working with PKA engine on CentOS 7.6 with 4.23 5.4 5.10 kernels due to multiple versions of OpenSSL(1.0.2k and 1.1.1k) are installed.
	Keywords: OpenSSL; PKA
	Fixed in version: 4.2.0
34558733	Description: 699140280000 OPN is not supported.
	Keywords: SKU; support
	Fixed in version: 4.2.0

Ref #	Issue Description
3519341	Description: Populate the vGIC maintenance interrupt number in MADT to avoid harmless.
	Keywords: Error
	Fixed in version: 4.2.0
3522652	Description: The timer frequency is measured using the c0 fmon feature causing new kernels to complain if CNTFRQ_EL0 has a different value on different cores.
	Keywords: Timer frequency
	Fixed in version: 4.2.0
3531965	Description: Memory info displayed via `dmidecode` is not correct for memory sizes 32G and above.
	Keywords: Memory; dmidecode
	Fixed in version: 4.2.0
3362181	Description: A customized BFB with an older kernel does not support bond speed above 200Gb/s.
	Keywords: Bond; LAG; speed
	Fixed in version: 4.2.0
3177569	Description: DCBX configuration may not take effect.
	Keywords: DCBX; QoS; lldpad
	Fixed in version: 4.2.0
2824859	Description: Hotplug/unplug of virtio-net devices during host shutdown/bootup may result in failure to do plug/unplug.
	Keywords: Virtio-net, hotplug
	Fixed in version: 4.2.0
3252083	Description: Assert errors may be observed in the RShim log after reset/reboot. These errors are harmless and may be ignored.
	Keywords: RShim; log; error
	Fixed in version: 4.0.3
3240	Description: Hotplug of a modern virtio-net device is not supported when `VIRTIO_EMULATION_HOTPLUG_TRANS` is `TRUE` from mlxconfig.

Ref #	Issue Description
060	Keywords: Virtio-net; hotplug; legacy
	Fixed in version: 4.0.3
3240182	Description: Virtio-net full emulation is not supported in CentOS 8.2 with inbox-kernel 4.18.0-193.el8.aarch64.
	Keywords: Virtio-net; CentOS
	Fixed in version: 4.0.3
3151884	Description: If secure boot is enabled, the following error message is observed while installing Ubuntu on the DPU: `ERROR: need to use capsule in secure boot mode` . This message is harmless and may be safely ignored.
	Keywords: Error message; installation
	Fixed in version: 3.9.3
2793005	Description: When Arm reboots or crashes after sending a virtio-net unplug request, the hotplugged devices may still be present after Arm recovers. The host, however, will not see those devices.
	Keywords: Virtio-net; hotplug
	Fixed in version: 3.9.3
3107227	Description: BlueField with secured BFB fails to boot up if the `PART_SCHEME` field is set in `bf.cfg` during installation.
	Keywords: Installation; bf.cfg
	Fixed in version: 3.9.2
3109270	Description: If the RShim service is running on an external host over the PCIe interface then, in very rare cases, a soft reset of the BlueField can cause a poisoned completion to be returned to the host. The host may treat this as a fatal error and crash.
	Keywords: RShim; ATF
	Fixed in version: 3.9.2
2790928	Description: Virtio-net-controller recovery may not work for a hot-plugged device because the system assigns a BDF (string identifier) of 0 for the hot-plugged device, which is an invalid value.
	Keywords: Virtio-net; hotplug; recovery

Ref #	Issue Description
	Fixed in version: 3.9.0
2780819	Description: Eye-opening is not supported on 25GbE integrated-BMC BlueField-2 DPU.
	Keywords: Firmware, eye-opening
	Fixed in version: 3.9.0
2876447	Description: Virtio full emulation is not supported by NVIDIA® BlueField®-2 multi-host cards.
	Keywords: Virtio full emulation; multi-host
	Fixed in version: 3.9.0
2855485	Description: After BFB installation, Linux crash may occur with `efi_call_rts` messages in the call trace which can be seen from the UART console.
	Keywords: Linux crash; `efi_call_rts`
	Fixed in version: 3.9.0
2901514	Description: Relaxed ordering is not working properly on virtual functions.
	Keywords: MLNX_OFED; relaxed ordering; VF
	Fixed in version: 3.9.0
2852086	Description: On rare occasions, the UEFI variables in UVPS EEPROM are wiped out which hangs the boot process at the UEFI menu.
	Keywords: UEFI; hang
	Fixed in version: 3.9.0
2934828	Description: PCIe device address to RDMA device name mapping on x86 host may change after the driver restarts in Arm.
	Keywords: RDMA; Arm; driver
	Fixed in version: 3.9.0
-	Description: RShim driver does not work when the host is in secure boot mode.
	Keywords: RShim; Secure Boot
	Fixed in version: 3.9.0
2787	Description: At rare occasions d uring Arm reset o n BMC-integrated DPUs , the DPU will send "PCIe Completion" marked as poisoned. Some servers treat that as

Ref #	Issue Description
308	fatal and may hang.
	Keywords: Arm reset; BMC integrated
	Fixed in version: 3.9.0
2585607	Description: Pushing the BFB image fails occasionally with a "bad magic number" error message showing up in the console.
	Keywords: BFB push; installation
	Fixed in version: 3.9.0
2802943	Description: SLD detection may not function properly.
	Keywords: Firmware
	Fixed in version: 3.9.0
2580945	Description: External host reboot may also reboot the Arm cores if the DPU was configured using mlxconfig.
	Keywords: Non-volatile configuration; Arm; reboot
	Fixed in version: 3.9.0
2899740	Description: BlueField-2 may sometimes go to PXE boot instead of Linux after installation.
	Keywords: Installation; PXE
	Fixed in version: 3.8.5
2870143	Description: Some DPUs may get stuck at GRUB menu when booting due to the GRUB configuration getting corrupted when board is powered down before the configuration is synced to memory.
	Keywords: GRUB; memory
	Fixed in version: 3.8.5
2873700	Description: The available RShim logging buffer may not have enough space to hold the whole register dump which may cause buffer wraparound.
	Keywords: RShim; logging
	Fixed in version: 3.8.5

Ref #	Issue Description
2801891	Description: IPMI EMU service reports cable link as down when it is actually up.
	Keywords: IPMI EMU
	Fixed in version: 3.8.0
2779861	Description: Virtio-net controller does not work with devices other than `mlx5_0/1` .
	Keywords: Virtio-net controller
	Fixed in version: 3.8.0
2801378	Description: No parameter validation is done for feature bits when performing hotplug.
	Keywords: Virtio-net; hotplug
	Fixed in version: 3.8.0
2802917	Description: When secure boot is enabled, PXE boot may not work.
	Keywords: Secure boot; PXE
	Fixed in version: 3.8.0
2827413	Description: Updating a BFB could fail due to congestion.
	Keywords: Installation; congestion
	Fixed in version: 3.8.0
2829876	Description: For virtio-net device, modifying the number of queues does not update the number of MSIX.
	Keywords: Virtio-net; queues
	Fixed in version: 3.8.0
2597790	Description: A "double free" error is seen when using the "curl" utility. This happens only when OpenSSL is configured to use a dynamic engine (e.g. Bluefield PKA engine).
	Keywords: OpenSSL; curl
	Fixed in version: 3.8.0
2853295	Description: UEFI secure boot enables the kernel lockdown feature which blocks access by mstmcra.
	Keywords: Secure boot

Ref #	Issue Description
	Fixed in version: 3.8.0
2854472	Description: Virtio-net controller may fail to start after power cycle.
	Keywords: Virtio-net controller
	Fixed in version: 3.8.0
2854995	Description: Memory consumed for a representor exceeds what is necessary making scaling to 504 SF's not possible.
	Keywords: Memory
	Fixed in version: 3.8.0
2856652	Description: Modifying VF bits yields an error.
	Keywords: Virtio-net controller
	Fixed in version: 3.8.0
2859066	Description: Arm hangs when user is thrown to livefish by FW (e.g. secure boot).
	Keywords: Arm; livefish
	Fixed in version: 3.8.0
2866082	Description: The current installation flow requires multiple resets after booting the self-install BFB due to the watchdog being armed after capsule update.
	Keywords: Reset; installation
	Fixed in version: 3.8.0
2866537	Description: Power-off of BlueField shows up as a panic which is then stored in the RShim log and carried into the BERT table in the next boot which is misleading to the user.
	Keywords: RShim; log; panic
	Fixed in version: 3.8.0
2868944	Description: Various errors related to the UPVS store running out of space are observed.
	Keywords: UPVS; errors
	Fixed in version: 3.8.0
27 54	Description: `oob_net0` cannot receive traffic after a network restart.
	Keywords: `oob_net0`

Ref #	Issue Description
798	Fixed in version: 3.8.0
2691175	Description: Up to 31 hot-plugged virtio-net devices are supported even if `PCI_SWITCH_EMULATION_NUM_PORT=32`. Host may hang if it hot plugs 32 devices.
	Keywords: Virtio-net; hotplug
	Fixed in version: 3.8.0
2597973	Description: Working with CentOS 7.6, if SF network interfaces are statically configured, the following parameters should be set. `NM_CONTROLLED="no"` `DEVTIMEOUT=30` For example: `# cat /etc/sysconfig/network-scripts/ifcfg-p0m0` `NAME=p0m0` `DEVICE=p0m0` `NM_CONTROLLED="no"` `PEERDNS="yes"` `ONBOOT="yes"` `BOOTPROTO="static"` `IPADDR=12.212.10.29` `BROADCAST=12.212.255.255` `NETMASK=255.255.0.0` `NETWORK=12.212.0.0` `TYPE=Ethernet` `DEVTIMEOUT=30`
	Keywords: CentOS; subfunctions; static configuration
	Fixed in version: 3.7.0
2581534	Description: When shared RQ mode is enabled and offloads are disabled, running multiple UDP connections from multiple interfaces can lead to packet drops.
	Keywords: Offload; shared RQ
	Fixed in version: 3.7.0

Ref #	Issue Description
2581621	Description: When OVS-DPDK and LAG are configured, the kernel driver drops the LACP packet when working in shared RQ mode.
	Keywords: OVS-DPDK; LAG; LACP; shared RQ
	Fixed in version: 3.7.0
2601094	Description: The gpio-mlxbf2 and mlxbf-gige drivers are not supported on 4.14 kernel.
	Keywords: Drivers; kernel
	Fixed in version: 3.7.0
2584427	Description: Virtio-net-controller does not function properly after changing uplink representor MTU.
	Keywords: Virtio-net controller; MTU
	Fixed in version: 3.7.0
2438392	Description: VXLAN with IPsec crypto offload does not work.
	Keywords: VXLAN; IPsec crypto
	Fixed in version: 3.7.0
2406401	Description: Address Translation Services is not supported in BlueField-2 step A1 devices. Enabling ATS can cause server hang.
	Keywords: ATS
	Fixed in version: 3.7.0
2402531	Description: PHYless reset on BlueField-2 devices may cause the device to disappear.
	Keywords: PHY; firmware reset
	Fixed in version: 3.7.0
2400381	Description: When working with strongSwan 5.9.0bf, running `ip xfrm state show` returns partial information as to the offload parameters, not showing "`mode full`".
	Keywords: strongSwan; ip xfrm; IPsec
	Fixed in version: 3.7.0
2392	Description: Server crashes after configuring PCI_SWITCH_EMULATION_NUM_PORT to a value higher than the number of PCIe

Ref #	Issue Description
604	lanes the server supports.
	Keywords: Server; hang
	Fixed in version: 3.7.0
2293791	Description: Loading/reloading NVMe after enabling VirtIO fails with a PCI bar memory mapping error.
	Keywords: VirtIO; NVMe
	Fixed in version: 3.7.0
2245983	Description: When working with OVS in the kernel and using Connection Tracking, up to 500,000 flows may be offloaded.
	Keywords: DPU; Connection Tracking
	Fixed in version: 3.7.0
1945513	Description: If the Linux OS running on the host connected to the BlueField DPU has a kernel version lower then 4.14, MLNX_OFED package should be installed on the host.
	Keywords: Host OS
	Fixed in version: 3.7.0
1900203	Description: During heavy traffic, ARP reply from the other tunnel endpoint may be dropped. If no ARP entry exists when flows are offloaded, they remain stuck on the slow path.
	Workaround: Set a static ARP entry at the BlueField Arm to VXLAN tunnel endpoints.
	Keywords: ARP; Static; VXLAN; Tunnel; Endpoint
	Fixed in version: 3.7.0
2082985	Description: During boot, the system enters systemctl emergency mode due a corrupt root file system.
	Keywords: Boot
	Fixed in version: 3.6.0.11699
2278833	Description: Creating a bond via NetworkManager and restarting the driver (openibd restart) results in no pf0hpf and bond creation failure.
	Keywords: Bond; LAG; network manager; driver reload

Ref #	Issue Description
	Fixed in version: 3.6.0.11699
2286596	Description: Only up to 62 host virtual functions are currently supported.
	Keywords: DPU; SR-IOV
	Fixed in version: 3.6.0.11699
2397932	Description: Before changing SR-IOV mode or reloading the mlx5 drivers on IPsec-enabled systems, make sure all IPsec configurations are cleared by issuing the command `ip x s f && ip x p f`.
	Keywords: IPsec; SR-IOV; driver
	Fixed in version: 3.6.0.11699
2405039	Description: In Ubuntu, during or after a reboot of the Arm, manually, or as part of a firmware reset, the network devices may not transition to switchdev mode. No device representors would be created (pf0hpf, pf1hpf, etc). Driver loading on the host will timeout after 120 seconds.
	Keywords: Ubuntu; reboot; representors; switchdev
	Fixed in version: 3.6.0.11699
2403019	Description: EEPROM storage for UEFI variables may run out of space and cause various issues such as an inability to push new BFB (due to timeout) or exception when trying to enter UEFI boot menu.
	Keywords: BFB install; timeout; EEPROM UEFI Variable; UVPS
	Fixed in version: 3.6.0.11699
2458040	Description: When using OpenSSL on BlueField platforms where Crypto support is disabled, the following errors may be encountered: `PKA_ENGINE: PKA instance is invalid` `PKA_ENGINE: failed to retrieve valid instance`This happens due to OpenSSL configuration being linked to use PKA hardware, but that hardware is not available since crypto support is disabled on these platforms.
	Keywords: PKA; Crypto
	Fixed in version: 3.6.0.11699
2456947	Description: All NVMe emulation counters (Ctrl, SQ, Namespace) return "0" when queried.
	Keywords: Emulated devices; NVMe

Ref #	Issue Description
	Fixed in version: 3.6.0.11699
2411542	Description: Multi-APP QoS is not supported when LAG is configured.
	Keywords: Multi-APP QoS; LAG
	Fixed in version: 3.6.0.11699
2394130	Description: When creating a large number of VirtIO VFs, hung task call traces may be seen in the dmesg.
	Keywords: VirtIO; call traces; hang
	Fixed in version: 3.5.1.11601
2398050	Description: Only up to 60 virtio-net emulated virtual functions are supported if LAG is enabled.
	Keywords: Virtio-net; LAG
	Fixed in version: 3.5.1.11601
2256134	Description: On rare occasions, rebooting the BlueField DPU may result in traffic failure from the x86 host.
	Keywords: Host; Arm
	Fixed in version: 3.5.1.11601
2400121	Description: When emulated PCIe switch is enabled, and more than 8 PFs are enabled, the BIOS boot process might halt.
	Keywords: Emulated PCIe switch
	Fixed in version: 3.5.0.11563
2082985	Description: During boot, the system enters systemctl emergency mode due a corrupt root file system.
	Keywords: Boot
	Fixed in version: 3.5.0.11563
2249187	Description: With the OCP card connecting to multiple hosts, one of the hosts could have the RShim PF exposed and probed by the RShim driver.
	Keywords: RShim; multi-host
	Fixed in version: 3.5.0.11563
2363	Description: When moving to separate mode on the DPU, the OVS bridge remains and no ping is transmitted between the Arm cores and the remote server.

Ref #	Issue Description
650	Keywords: SmartNIC; operation modes
	Fixed in version: 3.5.0.11563
2394226	Description: Pushing the BFB image v3.5 with a WinOF-2 version older than 2.60 can cause a crash on the host side.
	Keywords: Windows; RShim
	Fixed in version: 3.5.0.11563

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