



## **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.

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# 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 4.8.0

- 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

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# Supported Platforms and Interoperability

## Supported NVIDIA BlueField-3 Platforms

SKU	PSID	Description
900-9D3B6-00CN-AB0	MT_000000883	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-AA0	MT_000000884	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_000000964	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_000000965	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_000000966	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_000000967	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

SKU	PSID	Description
900-9D3B4-00EN-EA0	MT_000001010	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
900-9D3B4-00PN-EA0	MT_000001011	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_000001024	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_000001025	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_000001069	Nvidia BlueField-3 B3140H E-series HHL 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_000001070	Nvidia BlueField-3 B3140H E-series HHL 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_000001075	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_000001083	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
900-9D3B4-0000	MT_00000	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

SKU	PSID	Description
00CV- EA0	0109 3	
900- 9D3B4- 00SV- EA0	MT_0 0000 0109 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- 00SV- GA0	MT_0 0000 0110 1	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 Disabled
900- 9D3C6- 00SV- DA0	MT_0 0000 0110 2	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_0 0000 0111 5	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_0 0000 0111 7	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_0 0000 0118 8	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_0 0000 0119 6	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

## Supported NVIDIA BlueField-2 Platforms

SKU	PSID	Description
900-9D3B6-00CN-AB0	MT_000000883	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-AA0	MT_000000884	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_000000964	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_000000965	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_000000966	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_000000967	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_000001010	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
900-9D3B4-00PN-EA0	MT_000001011	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
900-9D3B6-0000	MT_00000000	NVIDIA BlueField-3 B3210 P-Series FHHL DPU; 100GbE (default mode) / HDR100 IB; Dual-port QSFP112; PCIe Gen5.0 x16 with x16 PCIe



SKU	PSID	Description
00CC-AA0	01024	extension option; 16 Arm cores; 32GB on-board DDR; integrated BMC;Crypto Enabled
900-9D3B6-00SC-AA0	MT_000001025	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_000001069	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_000001070	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_000001075	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_000001083	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_000001093	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_000001094	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
900-9D3C6-00SV-GA0	MT_000001101	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 Disabled

SKU	PSID	Description
900-9D3C6-00SV-DA0	MT_000001102	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_000001115	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_000001117	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_000001188	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_000001196	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

## Embedded Software

The BlueField installation DOCA local repo package for this release is DOCA\_2.7.0\_BSP\_4.7.0\_Ubuntu\_22.04-2.23-07.prod.bfb.

The following software components are embedded in it:

Component	Version	Description
ATF	<a href="#">v2.2(release): 4.7.0-25-g5569834</a>	Arm-trusted firmware is a reference implementation of secure world software for Arm architectures
UEFI	<a href="#">4.7.0-42-g13081ae</a>	UEFI is a specification that defines the architecture of the platform firmware used for booting and its interface for

Component	Version	Description
		interaction with the operating system
BlueField-3 NIC firmware	<a href="#">32.41.1000</a>	Firmware is used to run user programs on the BlueField-3 which allow hardware to run
BlueField-2 NIC firmware	<a href="#">24.41.1000</a>	Firmware is used to run user programs on the BlueField-2 which allow hardware to run
BMC firmware	<a href="#">24.04</a>	BlueField BMC firmware
BlueField-3 eROT (Glacier)	cec_ota_BMG P-04.0f	BlueField-3 eROT firmware
BlueField-2 eROT (CEC)	00.02.0182.0 000.n02	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.

OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
				doca-all	doca-networking	doca-oped
Alinux	3.2	5.10.134-13.al8.x86_64	x86			
Anolis	8.6	5.10.134+	aarch64			
			x86			
BCLinux	21.10SP2	4.19.90-2107.6.0.0098.oe1.bclinux.aarch64	aarch64			
		4.19.90-2107.6.0.0100.oe1.bclinux.x86_64	x86			
CTYunOS	2.0	4.19.90-2102.2.0.0062.ctl2.aarch64	aarch64			
		4.19.90-2102.2.0.0062.ctl2.x86_64	x86			
	3.0 (23.01)	5.10.0-136.12.0.86.ctl3.aarch64	aarch64			
		5.10.0-136.12.0.86.ctl3.x86_64	x86			
Debian	10.13	4.19.0-21-arm64	aarch64			
		4.19.0-21-amd64	x86			
	10.8	4.19.0-14-arm64	aarch			

OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
			64			
		4.19.0-14-amd64	x86			
	10.9	4.19.0-16-amd64	x86			
	11.3	5.10.0-13-arm64	aarch64			
		5.10.0-13-amd64	x86			
	12.1	6.1.0-10-arm64	aarch64			
		6.1.0-10-amd64	x86			
	EulerOS	2.0sp1 1	5.10.0-60.18.0.50.h323.eulerosv2r11.aarch64	aarch64		
5.10.0-60.18.0.50.h323.eulerosv2r11.x86_64			x86			
2.0sp1 2		5.10.0-136.12.0.86.h1032.eulerosv2r12.aarch64	aarch64			
		5.10.0-136.12.0.86.h1032.eulerosv2r12.x86_64	x86			
Kylin	10sp2	4.19.90-24.4.v2101.ky10.aarch64	aarch64			
		4.19.90-24.4.v2101.ky10.x86_64	x86			
	10sp3	4.19.90-52.22.v2207.ky10.aarch64	aarch64			
		4.19.90-52.22.v2207.ky10.x86_64	x86			
Mariner	2.0	5.15.118.1-1.cm2.x86_64	x86			

OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
Oracle Linux	7.9	5.4.17-2011.6.2.el7uek.x86_64	x86			
	8.4	5.4.17-2102.201.3.el8uek.x86_64	x86			
	8.6	5.4.17-2136.307.3.1.el8uek.x86_64	x86			
	8.7	5.15.0-3.60.5.1.el8uek.x86_64	x86			
	8.8	5.15.0-101.103.2.1.el8uek.x86_64	x86			
	9.1	5.15.0-3.60.5.1.el9uek.x86_64	x86			
	9.2	5.15.0-101.103.2.1.el9uek.x86_64	x86			
openEuler	20.03sp3	4.19.90-2112.8.0.0131.oe1.aarch64	aarch64			
		4.19.90-2112.8.0.0131.oe1.x86_64	x86			
	22.03	5.10.0-60.18.0.50.oe2203.aarch64	aarch64			
		5.10.0-60.18.0.50.oe2203.x86_64	x86			
RHEL/CentOS	8.0	4.18.0-80.el8.aarch64	aarch64			
		4.18.0-80.el8.x86_64	x86			
	8.1	4.18.0-147.el8.aarch64	aarch64			
		4.18.0-147.el8.x86_64	x86			
	8.2	4.18.0-193.el8.aarch64	aarch64			
		4.18.0-193.el8.x86_64	x86			

OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
	8.3	4.18.0-240.el8.aarch64	aarch64			
		4.18.0-240.el8.x86_64	x86			
	8.4	4.18.0-305.el8.aarch64	aarch64			
		4.18.0-305.el8.x86_64	x86			
RHEL/Rocky	8.5	4.18.0-348.el8.aarch64	aarch64			
		4.18.0-348.el8.x86_64	x86			
	8.6	4.18.0-372.41.1.el8_6.aarch64	aarch64			
		4.18.0-372.41.1.el8_6.x86_64	x86			
	8.7	4.18.0-425.14.1.el8_7.aarch64	aarch64			
		4.18.0-425.14.1.el8_7.x86_64	x86			
	8.8	4.18.0-477.10.1.el8_8.aarch64	aarch64			
		4.18.0-477.10.1.el8_8.x86_64	x86			
	8.9	4.18.0-513.5.1.el8_9.aarch64	aarch64			
		4.18.0-513.5.1.el8_9.x86_64	x86			
	9.0	5.14.0-70.46.1.el9_0.aarch64	aarch64			
		5.14.0-70.46.1.el9_0.x86_64	x86			
	9.1	5.14.0-162.19.1.el9_1.aarch64	aarch64			
		5.14.0-162.19.1.el9_1.x86_64	x86			
	9.2	5.14.0-284.11.1.el9_2.aarch64	aarch64			

OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
		5.14.0-284.11.1.el9_2.x86_64	x86			
	9.3	5.14.0-362.8.1.el9_3.aarch64	aarch64			
		5.14.0-362.8.1.el9_3.x86_64	x86			
SLES	15sp2	5.3.18-22-default	aarch64			
			x86			
	15sp3	5.3.18-57-default	aarch64			
			x86			
	15sp4	5.14.21-150400.22-default	aarch64			
			x86			
	15sp5	5.14.21-150500.53-default	aarch64			
			x86			
TKLinux	3.3	5.4.119-19.0009.39	aarch64			
		5.4.119-19.0009.39	x86			
Ubuntu	20.04	5.4.0-26-generic	aarch64			
			x86			
	22.04	5.15.0-25-generic	aarch64			
			x86			
	24.04	6.8.0-31-generic	aarch64			
			x86			



OS	OS Version	Default Kernel Version	Arch	DOCA Profile		
UOS	20.106 0a	5.10.0-46.uelc20.aarch64	aarch 64			
		5.10.0-46.uelc20.x86_64	x86			
	20.106 0e	5.10.0-46.uel20.aarch64	aarch 64			
		5.10.0-46.uel20.x86_64	x86			
XenServer	8.2	4.19.0+1	x86			

## Supported Open vSwitch

- 2.15.1

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# Bug Fixes In This Version

## Info

For an archive of bug fixes from previous releases, please see "[Bug Fixes History](#)".

Ref #	Issue Description
389	Description: eMMC clock toggling loop is observed after boot is completed.
490	Keyword: eMMC; GPIO; toggling
7	Reported in version: 4.7.0
386	Description: Restarting openibd results in kernel panic after modifying kernel IPsec configurations.
301	Keyword: IPsec
1	Reported in version: 4.7.0
387	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.
845	Keyword: Subfunction
8	Reported in version: 4.7.0
390	Description: Failure to verify measurements when UEFI secure boot is enabled.
151	Keyword: UEFI Secure Boot
1	Reported in version: 4.7.0

Ref #	Issue Description
387 539 4	<p>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 read-only: /dev/nvme0n1p2 on / type xfs (ro,relatime,attr2,inode64,logbufs=8,logbsize=32k,noquota)</p> <p>Keyword: Read-only; OL; UUID</p> <p>Reported in version: 4.7.0</p>
388 194 1	<p>Description: When working with RShim 2.0.28, PCIe host crash may rarely occur at the beginning of BFB push after the Arm reset.</p> <p>Keyword: RShim; driver</p> <p>Reported in version: 4.7.0</p>
388 631 5	<p>Description: To reset or shut down the BlueField Arm, it is mandatory to specify the --sync 0 argument. For example:</p> <pre>mlxfwreset -d &lt;device&gt; -l 1 -t 4 --sync 0 r</pre> <p>Keyword: Arm; shutdown</p> <p>Reported in version: 4.7.0</p>
395 621 0	<p>Description: BMC version change using BFB installation can fail if the previous BMC version change process did not finish.</p> <p>Keyword: BMC</p> <p>Reported in version: 4.7.0</p>
395 011 4	<p>Description: QP number can go beyond 0xFFFF. Change datatype to uint32_t to hold entire value.</p> <p>Keyword: Virtnet</p> <p>Reported in version: 4.7.0</p>
398 084 2	<p>Description: Openibd queries deprecated parameter ECPF_ESWITCH_MANAGER until the query times out.</p> <p>Keyword: Service; openibd</p> <p>Reported in version: 4.6.0</p>

Ref #	Issue Description
394	Description: The command <code>bfcfg -d</code> may show an incorrect OOB MAC address.
800	Keywords: OOB; MAC
9	Reported in version: 3.9.7

# Known Issues

Ref #	Issue
39570	<p>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.</p> <p>Workaround 1: Before the upgrade that follows a downgrade, delete the expired certificate.</p> <p>Workaround 2: After the upgrade that follows a downgrade, re-install the BFB.</p> <p>Keyword: Software</p> <p>Reported in version: 4.8.0</p>
3859084	<p>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.</p> <p>Workaround: N/A</p> <p>Keyword: bfb-install; TCP</p> <p>Reported in version: 4.8.0</p>
3876636	<p>Description: RDMA devices are missing after installing BFB in NIC mode.</p> <p>Workaround: An additional BlueField reboot is required</p> <p>Keyword: RDMA; reboot; NIC mode</p> <p>Reported in version: 4.8.0</p>
3960613	<p>Description: When configuring NVMe-oF target offload on Arm, harmless CMA allocation errors appear at the kernel log.</p>

Ref #	Issue
	<p>Workaround: Increase the CMA limit or cancel its use using the kernel's CMD line parameters:</p> <ul style="list-style-type: none"> <li>• Add the parameter <code>cma=256M</code> to increase the CMA limit to 256MB; or</li> <li>• Add the parameter <code>cma=0</code> to disable the use of CMA</li> </ul> <p>Keyword: NVMe-oF target offload; CMA</p> <p>Reported in version: 4.8.0</p>
39 69 47 7	<p>Description: At times, BlueField may boot into grub shell after BFB installation.</p> <p>Workaround: Power-cycle the BlueField.</p> <p>Keyword: BFB installation; grub shell</p> <p>Reported in version: 4.8.0</p>
38 37 64 9	<p>Description: Possible stack trace in <code>mlxbf_i2c</code> can occur intermittently when booting BFB.</p> <p>Workaround: Reboot the BlueField.</p> <p>Keyword: Boot</p> <p>Reported in version: 4.8.0</p>
39 64 58 4	<p>Description: RShim driver is not enabled by default after installation.</p> <p>Workaround: Enable RShim driver manually by running <code>systemctl enable rshim</code>. Then either reboot or run <code>systemctl start rshim</code> to start the RShim driver.</p> <p>Keyword: RShim driver</p> <p>Reported in version: 4.8.0</p>
32 39 32 0	<p>Description: Resetting hugepage size to 0 on Rocky Linux 8.6 using the <code>sysctl</code> tool fails.</p> <p>Workaround: Use the following command instead:</p> <pre>echo 0 &gt; /sys/kernel/mm/hugepages/hugepages-&lt;Size&gt;/nr_hugepages</pre> <p>Keyword: Hugepage; sysctl</p>

Ref #	Issue
	Reported in version: 4.7.0
38	Description: Reloading MLNX_OFED drivers with the command <code>/etc/init.d/openibd restart</code> fails when the NVMe driver is installed and in use.
59	Workaround: Reboot the machine to load all the MLNX_OFED drivers.
11	Keyword: NVMe; driver
3	Reported in version: 4.7.0
37	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.
48	Workaround: N/A
64	Keyword: CTyunOS; CPU numbering
9	Reported in version: 4.7.0
37	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.
56	Workaround: Reset the card or repeat the operation (bfb push).
74	Keyword: BFB Push; FW Reset
8	Reported in version: 4.7.0
36	Description: Virtio-net controller fails to load if DPA_AUTHENTICATION is enabled.
65	Workaround: N/A
07	Keyword: Virtio-net; DPA
0	Reported in version: 4.7.0
38	Description: Creating VFs and hotplug PFs in parallel can lead to controller crash.
62	Workaround: Create VFs followed by hotplug PF or vice versa.
68	Keyword: Virtio-net emulation
3	Reported in version: 4.7.0

Ref #	Issue
3844066	<p>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</p> <p>Workaround: Do not bring UP OVS bridge interfaces.</p> <p>Keyword: CentOS; kernel; rcu_note_context_switch</p> <p>Reported in version: 4.7.0</p>
3844705	<p>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.</p> <p>Workaround: Upgrade to Linux Kernel version 5.10 or later.</p> <p>Keyword: eMMC discard; trim functionality</p> <p>Reported in version: 4.7.0</p>
3877725	<p>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.</p> <pre data-bbox="219 1136 1463 1314">echo "DISPLAY_LEVEL 2" &gt; /dev/rshim0/misc cat /dev/rshim0/misc</pre> <p>Workaround: Monitor the BlueField-3 Arm's UART console to check whether BFB installation has completed or not for NIC mode.</p> <pre data-bbox="219 1423 1463 1644">[13:58:39] INFO: Installation finished ... [14:01:53] INFO: Rebooting...</pre> <p>Keyword: NIC mode; BFB install</p> <p>Reported in version: 4.7.0</p>
3855	<p>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.</p>



Ref #	Issue
702	<p>Workaround: N/A</p> <p>Keyword: RDMA; SWS</p> <p>Reported in version: 4.7.0</p>
3743879	<p>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.</p> <p>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.</p> <p>If host Linux kernel lockdown is enabled, then manually unbind the RShim driver before mlxfwreset and bind it back after mlxfwreset:</p> <pre> echo "DROP_MODE 1" &gt; /dev/rshim0/misc mlxfwreset &lt;arguments&gt; echo "DROP_MODE 0" &gt; /dev/rshim0/misc </pre> <p>Keyword: Timeout; mlxfwreset; INTx</p> <p>Reported in version: 4.7.0</p>
3670361	<p>Description: Rarely, the driver takes more than several minutes to load.</p> <p>Workaround: Re-run /sbin/mlnx_bf_configure.</p> <p>Keywords: Driver; boot</p> <p>Reported in version: 4.6.0</p>
3746866	<p>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.</p> <p>Workaround: N/A</p> <p>Keywords: IPMI; Debian</p> <p>Reported in version: 4.6.0</p>
3755	<p>Description: UEFI synchronous exception is observed at address 0x479B7xxxx where the UEFI module names are not printed. See the following example:</p>

Ref #	Issue
143	<pre>ERR[UEFI]: PC=0x479B78480(B4000040 3900001F A94153F3 F94013F5) ERR[UEFI]: PC=0x479B78480 ERR[UEFI]: PC=0x479B7E684 ERR[UEFI]: PC=0x47A0E93F4 ERR[UEFI]: PC=0x47A0E9608</pre> <p>Workaround: Run software reset or reinstall the BFB.</p> <p>Keywords: UEFI synchronous exception</p> <p>Reported in version: 4.6.0</p>
377177	<p>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).</p> <p>Workaround: Run:</p> <pre>sudo dpkg-reconfigure locales</pre> <p>Keywords: Debian 12; locale; LC_ALL</p> <p>Reported in version: 4.6.0</p>
3704985	<p>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 appear on the DPU side: virtio_net virtio1 tmfifo_net0: TX timeout.</p> <p>Workaround: N/A</p> <p>Keywords: RShim; log</p> <p>Reported in version: 4.6.0</p>
3767580	<p>Description: On Debian 12, the first boot after BFB installation may fail with the following kernel panic:</p> <pre>[ end Kernel panic - not syncing: Attempted to kill init! exitcode=0x00000100 ]</pre> <p>Workaround: Reset the DPU using the RShim interface:</p>

Ref #	Issue
	<pre data-bbox="219 302 1458 443">echo "SW_RESET 1" &gt; /dev/rshim0/misc</pre> <p data-bbox="219 443 1458 516">Keywords: Debian 12; Kernel panic; kill init</p> <p data-bbox="219 516 1458 579">Reported in version: 4.6.0</p>
37 71 60 1	<p data-bbox="219 579 1458 632">Description: On Debian 12, /etc/init.d/openibd restart fails with the following error:</p> <pre data-bbox="219 632 1458 772">rmmod: ERROR: Module rdma_cm is in use by: nvme_rdma</pre> <p data-bbox="219 772 1458 825">Workaround: Run:</p> <pre data-bbox="219 825 1458 966">modprobe -r nvme_rdma; /etc/init.d/openibd restart</pre> <p data-bbox="219 966 1458 1039">Keywords: Debian 12; openibd; nvme_rdma</p> <p data-bbox="219 1039 1458 1115">Reported in version: 4.6.0</p>
36 86 05 3	<p data-bbox="219 1115 1458 1440">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 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.</p> <p data-bbox="219 1440 1458 1545">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.</p> <p data-bbox="219 1545 1458 1608">Keyword: VF; kernel; resources</p> <p data-bbox="219 1608 1458 1682">Reported in version: 4.6.0</p>
36 78 06 9	<p data-bbox="219 1682 1458 1829">Description: If using DPUs with NVMe and mmcblk and configured to boot from mmcblk, users must create a bf.cfg file with device=/dev/mmcblk0 before installing the *.bfb.</p> <p data-bbox="219 1829 1458 1896">Workaround: N/A</p>

Ref #	Issue
	Keyword: NVMe
	Reported in version: 4.6.0
37 47 28	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.
5	Keyword: PXE; retry; fail
	Reported in version: 4.6.0
37 45 52	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
9	Keyword: Bond; timeout
	Reported in version: 4.6.0
37 33 71	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
3	Keyword: CA certificates; UEFI
	Reported in version: 4.6.0
37 33 74	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
0	Keyword: CA certificates; BMC
	Reported in version: 4.6.0
36 66	Description: Running <code>systemctl restart openibd</code> on the DPU can result in <code>openvswitch</code> service crash.

Ref #	Issue
574	<p>Workaround: Run <code>/etc/init.d/openvswitch-switch start</code>.</p> <p>Keyword: OVS fail; openibd</p> <p>Reported in version: 4.6.0</p>
3204153	<p>Description: On BlueField-2, the OOB may not get an IP address due to the interface being down.</p> <p>Workaround: restart auto-negotiation using the command <code>ethtool -r oob_net0</code>.</p> <p>Keyword: OOB; IP</p> <p>Reported in version: 4.5.0</p>
3601491	<p>Description: Symmetric pause must be enabled in the DHCP server for the OOB to be able to reliably get an IP address assigned.</p> <p>Workaround: N/A</p> <p>Keyword: OOB; IP</p> <p>Reported in version: 4.5.0</p>
367330	<p>Description: On Debian 12, Arm ports remain in Legacy mode after multiple Arm reboot iterations. The following error message appears in <code>/var/log/syslog</code>:</p> <pre> mlnx_bf_configure[2601]: ERR: Failed to configure switchdev mode for 0000:03:00.0 after 61 retries </pre> <p>Workaround: Run:</p> <pre> \$ echo SET_MODE_RETRY_NUM=300 &gt;&gt; /etc/mellanox/mlnx-bf.conf \$ reboot </pre> <p>Keyword: Debian; Arm</p> <p>Reported in version: 4.5.0</p>
3695	<p>Description: PXE boot may fail after a firmware upgrade from 32.36.xxxx, 32.37.xxxx, to 32.38.xxxx and above.</p>

Ref #	Issue
543	<p>Workaround: Create <code>/etc/bf.cfg</code> with the following lines, then run <code>bfcfg</code> to recreate the PXE boot entries:</p> <pre data-bbox="219 401 1461 783"> 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 </pre> <p>Keyword: MAC allocation; PXE boot</p> <p>Reported in version: 4.5.0</p>
3647476	<p>Description: Debian 12 OS does not support CT tunnel offload.</p> <p>Workaround: Recompile the kernel with <code>CONFIG_NET_TC_SKB_EXT</code> set.</p> <p>Keyword: Connection tracking; Linux</p> <p>Reported in version: 4.5.0</p>
3007696	<p>Description: When configuring a static IP address for <code>tmfifo_net0</code> interface in <code>/etc/network/interfaces</code>, the IP address is lost after restarting the RShim driver on Debian Linux.</p> <p>Workaround: Use netplan configuration. For example</p> <pre data-bbox="219 1392 1461 1850"> # cat /etc/netplan/tmfifo_net0.yaml network:   version: 2   renderer: networkd   ethernets:     tmfifo_net0:       addresses:         - 192.168.100.1/30       dhcp4: false </pre> <p>Then run "netplan apply".</p>

Ref #	Issue
	Keyword: IP address; tmfifo_net0; host
	Reported in version: 4.5.0
36	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.
70	Workaround: The admin must configure the Arm subsystem boot device to boot from the eMMC, for example.
62	
8	Keyword: mlxfwreset; RShim
	Reported in version: 4.5.0
37	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.
02	
39	Workaround: Perform graceful shutdown and then a power cycle.
3	Keyword: mlxfwreset; RShim
	Reported in version: 4.5.0
36	Description: If the UEFI password is an empty string (""), then it cannot be changed via Redfish.
65	Workaround: UEFI; password; Redfish
72	
4	Keyword: UEFI; password; Redfish
	Reported in version: 4.5.0
36	Description: XFRM rules must be deleted before driver restart or warm reboot are performed.
71	Workaround: N/A
18	
5	Keyword: IPsec
	Reported in version: 4.5.0
36	Description: Installing BFB using bfb-install when mlxconfig PF_TOTAL_SF>1700, triggers server reboot immediately.
66	
16	
0	

Ref #	Issue
	<p>Workaround: Change PF_TOTAL_SF to 0, perform graceful shutdown, then power cycle, and then install the BFB.</p> <p>Keyword: SF; PF_TOTAL_SF; BFB installation</p> <p>Reported in version: 4.2.2</p>
3605254	<p>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.</p> <p>Workaround: Wait until the BMC is done booting before issuing a reset command to the DPU.</p> <p>Keyword: Power cycle; Redfish; boot</p> <p>Reported in version: 4.2.1</p>
3602044	<p>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.</p> <p>Workaround: Set SecureBootEnable to true using the Redfish API.</p> <p>Keyword: Redfish; UEFI secure boot</p> <p>Reported in version: 4.2.1</p>
3592080	<p>Description: When using UEK8 on the host in DPU mode, creating a VF on the host consumes about 100MB memory on the DPU.</p> <p>Workaround: N/A</p> <p>Keyword: UEK; VF</p> <p>Reported in version: 4.2.1</p>
3568341	<p>Description: Downgrading BSP software from 4.2.0 fails if UEFI secure boot is enabled.</p> <p>Workaround: Disable UEFI secure boot before downgrading.</p>



Ref #	Issue
	Keyword: Software; downgrade
	Reported in version: 4.2.0
35	Description: Virtio hotplug is not supported in GPU-HOST mode on the NVIDIA Converged Accelerator.
66	Workaround: N/A
04	Keyword: Virtio; Converged Accelerator
2	Reported in version: 4.2.0
35	Description: PXE boot over ConnectX interface might not work due to an invalid MAC address in the UEFI boot entry.
46	Workaround: On the DPU, create <code>/etc/bf.cfg</code> file with the relevant PXE boot entries, then run the command <code>bfcfg</code> .
47	Keyword: PXE; boot; MAC
4	Reported in version: 4.2.0
35	Description: After rebooting a BlueField-3 DPU running Rocky Linux 8.6 BFB, the kernel log shows the following error:
46	<pre>[ 3.787135] mlxbf_gige MLNXBF17:00: Error getting PHY irq. Use polling instead</pre>
20	This message indicates that the Ethernet driver will function normally in all aspects, except that PHY polling is enabled.
2	Workaround: N/A
	Keyword: Linux; PHY; kernel
	Reported in version: 4.2.0
33	Description: When performing longevity tests (e.g., <code>mlxfwreset</code> , DPU reboot, burning of new BFBs), a host running an Intel CPU may observe errors related to "CPU 0: Machine Check Exception".
06	Workaround: Add <code>intel_idle.max_cstate=1</code> entry to the kernel command line.
48	Keyword: Longevity; <code>mlxfwreset</code> ; DPU reboot
9	

R ef #	Issue
	Reported in version: 4.2.0
35	Description: When removing LAG configuration from the DPU, a kernel warning for <code>uverbs_destroy_ufile_hw</code> is observed if <code>virtio-net-controller</code> is still running.
38	Workaround: Stop <code>virtio-net-controller</code> service before cleaning up bond configuration.
48	
6	Keyword: Virtio-net; LAG
	Reported in version: 4.2.0
	Description: When trying to perform a PXE installation when UEFI Secure Boot is enabled, the following error messages may be observed:
34	<pre>error: shim_lock protocol not found. error: you need to load the kernel first.</pre>
62	
63	Workaround: Download a Grub EFI binary <a href="#">from the Ubuntu website</a> . For further information on Ubuntu UEFI Secure Boot PXE Boot, please visit Ubuntu's official website.
0	
	Keyword: PXE; UEFI Secure Boot
	Reported in version: 4.0.2
34	Description: Socket-Direct is currently not supported on BlueField-3 devices.
12	Workaround: N/A
84	Keyword: Socket-Direct; support
7	
	Reported in version: 4.0.2
34	Description: While running CentOS 8.2, <code>switchdev</code> Ethernet DPU runs in "shared" RDMA net namespace mode instead of "exclusive".
48	
84	Workaround: Use <code>ib_core</code> module parameter <code>netns_mode=0</code> . For example:
1	<pre>echo "options ib_core netns_mode=0" &gt;&gt; /etc/modprobe.d/mlnx-bf.conf</pre>
	Keywords: RDMA; isolation; Net NS

Ref #	Issue
	Reported in version: 4.0.2
34	Description: Using <code>mlnx-sf</code> 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.
13	Workaround: N/A
93	Keywords: Hang; <code>mlnx-sf</code>
8	Reported in version: 4.0.2
34	Description: <code>Ovs-pki</code> is not working due to two versions of OpenSSL being installed, causing the PKA engine to not load properly.
52	Workaround: N/A
74	Keywords: PKA; OpenSSL
0	Reported in version: 4.0.2
32	Description: Changing the mode of operation between NIC and DPU modes results in different capabilities for the host driver which might cause unexpected behavior.
73	Workaround: Reload the host driver or reboot the host.
43	Keywords: Modes of operation; driver
5	Reported in version: 4.0.2
27	Description: When an NVMe controller, SoC management controller, and DMA controller are configured, the maximum number of VFs is limited to 124.
06	Workaround: N/A
80	Keywords: VF; limitation
3	Reported in version: 4.0.2
32	Description: When trying to change boot order using <code>efibootmgr</code> , BlueField fails to attempt PXE boot from <code>p0</code> even though <code>efibootmgr</code> returns a successful result.
64	Workaround: Drop into the UEFI menu and regenerate all the EFI entries.
22	Keywords: PXE; <code>efibootmgr</code>
4	Reported in version: 3.9.3.1

Ref #	Issue
3188415	<p>Description: An Arm firmware update to the same version that is installed will fail and is not supported.</p> <p>Workaround: N/A</p> <p>Keywords: Arm; firmware; update</p> <p>Reported in version: 3.9.2</p>
N/A	<p>Description: The BootOptionEnabled attribute changes back to true after DPU-force reset.</p> <p>Workaround: N/A</p> <p>Keywords: Redfish; BootOptionEnabled</p> <p>Reported in version: 3.9.2</p>
3012182	<p>Description: The command <code>ethtool -l --show-fec</code> is not supported by the DPU with kernel 5.4.</p> <p>Workaround: N/A</p> <p>Keywords: Kernel; show-fec</p> <p>Reported in version: 3.9.0</p>
2855986	<p>Description: After disabling SR-IOV VF on a virtio device, removing virtio-net/PCIe driver from guest OS may render the virtio controller unusable .</p> <p>Workaround: Restart the virtio-net controller to recover it. To avoid this issue, monitor the log from controller and make sure VF resources are destroyed before unloading virtio-net/PCIe drivers.</p> <p>Keywords: Virtio-net; VF</p> <p>Reported in version: 3.9.0</p>
2863456	<p>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.</p> <p>Workaround: N/A</p> <p>Keywords: ASAP2; IPsec Full Offload</p>

Ref #	Issue
	Reported in version: 3.9.0
29 82 18 4	<p>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.</p> <p>Workaround: Power-cycle the BlueField to fix the EEPROM issue. Manual recovery of the boot options and/or SW installation may be needed.</p> <p>Keywords: Reset; EEPROM</p> <p>Reported in version: 3.9.0</p>
28 53 40 8	<p>Description: Some pre-OS environments may fail when sensing a hot plug operation during their boot stage.</p> <p>Workaround: Run "mlxconfig -d &lt;mst dev&gt; set PF_LOG_BAR_SIZE=0".</p> <p>Keywords: BIOS; hot-plug; Virtio-net</p> <p>Reported in version: 3.9.0</p>
29 34 83 3	<p>Description: Running I/O traffic and toggling both physical ports status in a stressful manner on the receiving-end machine may cause traffic loss.</p> <p>Workaround: N/A</p> <p>Keywords: MLNX_OFED; RDMA; port toggle</p> <p>Reported in version: 3.8.5</p>
29 11 42 5	<p>Description: ProLiant DL385 Gen10 Plus server with BIOS version 1.3 hangs when large number of SFs (PF_TOTAL_SF=252) are configured.</p> <p>Workaround: Update the BIOS version to 2.4 which should correctly detect the PCIe device with the bigger BAR size.</p> <p>Keywords: Scalable functions; BIOS</p> <p>Reported in version: 3.8.5</p>
N/A	<p>Description: Only QP queues are supported for GGA accelerators from this version onward.</p> <p>Workaround: N/A</p>

Ref #	Issue
	Keywords: Firmware; SQ; QP
	Reported in version: 3.8.0
28	Description: Setting VHCA_TRUST_LEVEL does not work when there are active SFs or VFs.
46	Workaround: N/A
10	Keywords: Firmware; SF; VF
8	Reported in version: 3.8.0
27	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).
50	Workaround: N/A
49	Keywords: Devlink
9	Reported in version: 3.7.1
27	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).
30	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.
15	Keywords: Kernel; upgrade
7	Reported in version: 3.7.0
27	Description: Call traces are seen on the host when recreating VFs before the controller side finishes the deletion procedure.
06	Workaround: N/A
71	Keywords: Virtio-net controller
0	Reported in version: 3.7.0
26	Description: 3rd party (netkvm.sys) Virtio-net drivers for Windows do not support SR-IOV.
85	

Ref #	Issue
478	<p>Workaround: N/A</p> <p>Keywords: Virtio-net; SR-IOV; WinOF-2</p> <p>Reported in version: 3.7.0</p>
2684501	<p>Description: Once the contiguous memory pool, a limited resource, is exhausted, fallback allocation to other methods occurs. This process triggers <code>cma_alloc</code> failures in the <code>dmesg</code> log.</p> <p>Workaround: N/A</p> <p>Keywords: Log; <code>cma_alloc</code>; memory</p> <p>Reported in version: 3.7.0</p>
2590016	<p>Description: <code>ibdev2netdev</code> tool is not supported for PCIe PF operating in <code>switchdev</code> mode or on SFs.</p> <p>Workaround: N/A</p> <p>Keywords: <code>ibdev2netdev</code></p> <p>Reported in version: 3.6.0.11699</p>
2590016	<p>Description: A "double free" error is seen when using the "curl" utility. This error is from <code>libcrypto.so</code> 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).</p> <p>Workaround: Set <code>OPENSSL_CONF=/etc/ssl/openssl.cnf.orig</code> before using the curl utility. For example:</p> <pre data-bbox="219 1409 1463 1541"># OPENSSL_CONF=/etc/ssl/openssl.cnf.orig curl -O https://tpo.pe/pathogen.vim</pre> <div data-bbox="219 1602 1463 1875" style="background-color: #ffffcc; padding: 10px;"> <p><b>Note</b></p> <p><code>OPENSSL_CONF</code> 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.</p> </div>

R ef #	Issue
	Keywords: OpenSSL; curl
	Reported in version: 3.6.0.11699
24 07 89 7	<p>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.</p> <p>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.</p>
	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
24 45 28 9	<p>Description: If secure boot is enabled, MFT cannot be installed on the BlueField DPU independently from BlueField drivers (MLNX_OFED).</p>
	Workaround: N/A
	Keywords: MFT; secure boot
	Reported in version: 3.5.1.11601
23 77 02 1	<p>Description: Executing <code>sudo poweroff</code> on the Arm side causes the system to hang.</p>
	Workaround: Perform graceful shutdown, then reboot your BlueField device or power cycle the server.
	Keywords: Hang; reboot
	Reported in version: 3.5.0.11563
23 50 13 2	<p>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" &gt; 27.</p>
	Workaround: N/A
	Keywords: Server; hang; power cycle



Ref #	Issue
	Reported in version: 3.5.0.11563
25	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.
81	Workaround: Run warm reboot on the host side and boot again via the device when Arm is up and the OVS bridge is configured.
40	Keywords: Embedded CPU; PXE; UEFI; Arm
8	Reported in version: 2.5.0.11176
	Description: On some setups, DPU does not power on following server cold boot when UART cable is attached to the same server.
18	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.
59	Keywords: DPU; Arm; Cold Boot
32	Reported in version: 2.4.0.11082
2	Description: Driver restart fails when SNAP service is running.
18	Workaround: Stop the SNAP services nvme_sf and nvme_snap@nvme0, then restart the driver. After the driver loads restart the services.
99	Keywords: SNAP
92	Reported in version: 2.2.0.11000
1	Description: Defining namespaces with certain Micron disks (Micron_9300_MTFDHAL3T8TDP) using consecutive attach-ns commands can cause errors.
19	Workaround: Add delay between attach-ns commands.
11	Keywords: Micron; disk; namespace; attach-ns
61	Reported in version: 2.2.0.11000
8	

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# 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
MP	GA level
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	980-9108L-00W003	C-DQ8FNM003-NML	NVIDIA Select 400GbE QSFP-DD AOC 3m	Preliminary
N/A	400GE	980-9108N-00W005	C-DQ8FNM005-NML	NVIDIA Select 400GbE QSFP-DD AOC 5m	Preliminary
N/A	400GE	980-9108P-00W010	C-DQ8FNM010-NML	NVIDIA Select 400GbE QSFP-DD AOC 10m	Preliminary
N/A	400GE	980-9108R-00W020	C-DQ8FNM020-NML	NVIDIA Select 400GbE QSFP-DD AOC 20m	Preliminary
N/A	400GE	980-9108T-00W050	C-DQ8FNM050-NML	NVIDIA Select 400GbE QSFP-DD AOC 50m	Preliminary
NDR	N/A	980-9181B-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	980-9181C-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	980-9176G-00N004	MCA7J75-N004	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 4m	Prototype
NDR	N/A	980-9176H-00N005	MCA7J75-N005	NVIDIA Active copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 5m	Prototype

<b>IB Data Rate</b>	<b>Eth Data Rate</b>	<b>NVIDIA P/N</b>	<b>Legacy P/N</b>	<b>Description</b>	<b>LifeCycle Phase</b>
NDR	N/A	980-91928-00N001	MCP7Y10-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,1m	P-Rel
NDR	N/A	980-91929-00N002	MCP7Y10-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,2m	P-Rel
NDR	N/A	980-9180P-00N003	MCP7Y10-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,3m	P-Rel
NDR	N/A	980-9180A-00N01A	MCP7Y10-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,1.5m	P-Rel
NDR	N/A	980-9180Q-00N02A	MCP7Y10-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 2x400Gb/s, OSFP to 2xQSFP112,2.5m	P-Rel
NDR	N/A	980-9180B-00N001	MCP7Y40-N001	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 1m	P-Rel
NDR	N/A	980-9180C-00N002	MCP7Y40-N002	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 2m	P-Rel
NDR	N/A	980-9175R-00N003	MCP7Y40-N003	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 3m	P-Rel
NDR	N/A	980-9175D-00N01A	MCP7Y40-N01A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 1.5m	P-Rel
NDR	N/A	980-9175S-00N02A	MCP7Y40-N02A	NVIDIA passive copper splitter cable, IB twin port NDR 800Gb/s to 4x200Gb/s, OSFP to 4xQSFP112, 2.5m	P-Rel
NDR	N/A	980-9173U-	MFP7E10-N003	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 3m	MP

<b>IB Data Rate</b>	<b>Eth Data Rate</b>	<b>NVIDIA P/N</b>	<b>Legacy P/N</b>	<b>Description</b>	<b>LifeCycle Phase</b>
		000003			
NDR	N/A	980-9I73V-000005	MFP7E10-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	N/A	980-9I57W-000007	MFP7E10-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	N/A	980-9I57X-00N010	MFP7E10-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	N/A	980-9I57Y-000015	MFP7E10-N015	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 15m	MP
NDR	N/A	980-9I57Z-000020	MFP7E10-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	N/A	980-9I573-00N025	MFP7E10-N025	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 25m	MP
NDR	N/A	980-9I570-00N030	MFP7E10-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	N/A	980-9I570-00N035	MFP7E10-N035	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 35m	MP
NDR	N/A	980-9I570-00N040	MFP7E10-N040	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	N/A	980-9I57Y-00N050	MFP7E10-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 50m	MP

<b>IB Data Rate</b>	<b>Eth Data Rate</b>	<b>NVIDIA P/N</b>	<b>Legacy P/N</b>	<b>Description</b>	<b>LifeCycle Phase</b>
NDR	N/A	980-9I571-00N003	MFP7E20-N003	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	N/A	980-9I572-00N005	MFP7E20-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	N/A	980-9I573-00N007	MFP7E20-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	N/A	980-9I554-00N010	MFP7E20-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	N/A	980-9I555-00N015	MFP7E20-N015	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	N/A	980-9I556-00N020	MFP7E20-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	N/A	980-9I557-00N030	MFP7E20-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 30m	MP
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-0-N003	MFP7E30-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 3m	MP

<b>IB Data Rate</b>	<b>Eth Data Rate</b>	<b>NVIDIA P/N</b>	<b>Legacy P/N</b>	<b>Description</b>	<b>LifeCycle Phase</b>
		00N003			
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-00N020	MFP7E30-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 20m	MP
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

<b>IB Data Rate</b>	<b>Eth Data Rate</b>	<b>NVIDIA P/N</b>	<b>Legacy P/N</b>	<b>Description</b>	<b>LifeCycle Phase</b>
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
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-	MMA1Z00-NS400	NVIDIA single port transceiver, 400Gbps,NDR, QSFP112, MPO12 APC,	P-Rel



IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00NS00		850nm MMF, up to 50m, flat top	

## HDR / 200GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	NA	980-9145L-00H150	MFS1S00-H150E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 150m	EOL [HVM]
HDR	NA	980-9145O-00H200	MFS1S00-H200E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 200m	EOL [EVT]
NDR	NA	980-91068-00NM00	MMS1X00-NS400	NVIDIA single port transceiver, 400Gbps, NDR, QSFP112, MPO, 1310nm SMF, up to 500m, flat top	Early BOM
HDR	200GE	980-91548-00H001	MCP1650-H001E30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1m	HVM
HDR	200GE	980-91549-00H002	MCP1650-H002E26	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 2m	HVM
HDR	200GE	980-9154A-00H00A	MCP1650-H00AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 0.5m	HVM
HDR	200GE	980-9154B-	MCP1650-	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1.5 m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00H01A	H01AE30		
N/A	200GE	980-9154C-00V001	MCP1650-V001E30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 1m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9154D-00V002	MCP1650-V002E26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2m, black pulltab, 26AWG	LTB [HVM]
N/A	200GE	980-9154G-00V003	MCP1650-V003E26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 3m, black pulltab, 26AWG	EOL [HVM]
N/A	200GE	980-9154H-00V00A	MCP1650-V00AE30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 0.5m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9154I-00V01A	MCP1650-V01AE30	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 1.5m, black pulltab, 30AWG	LTB [HVM]
N/A	200GE	980-9154L-00V02A	MCP1650-V02AE26	NVIDIA Passive Copper cable, 200GbE, 200Gb/s, QSFP56, LSZH, 2.5m, black pulltab, 26AWG	LTB [HVM]
HDR	200GE	980-9139E-00H001	MCP7H50-H001R30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1m	HVM
HDR	200GE	980-9199F-00H002	MCP7H50-	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 2m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
			H002R26		
HDR	200GE	980-9198G-00H01A	MCP7H50-H01AR30	Nvidia Passive copper splitter cable, 200Gbps to 2x100Gbps, QSFP56 to 2xQSFP56, 1.5m	HVM
N/A	200GE	980-9198H-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	980-9198I-00V002	MCP7H50-V002R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2m, 26AWG	LTB [HVM]
N/A	200GE	980-9198J-00V003	MCP7H50-V003R26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 3m, 26AWG	EOL [HVM]
N/A	200GE	980-9198K-00V01A	MCP7H50-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 1.5m, 30AWG	EOL [HVM]
N/A	200GE	980-9198M-00V02A	MCP7H50-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, colored, 2.5m, 26AWG	LTB [HVM]
N/A	200GE	980-91A3X-00V001	MCP7H70-V001R30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1m, 30AWG	EOL [P-Rel]
N/A	200GE	980-91A3Y-00V002	MCP7H70-	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 2m, 26AWG	EOL [P-Rel]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
			V002R26		
N/A	200GE	980-9143Z-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	980-91430-00V01A	MCP7H70-V01AR30	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 1.5m, 30AWG	EOL [P-Rel]
N/A	200GE	980-91431-00V02A	MCP7H70-V02AR26	NVIDIA passive copper hybrid cable, 200GbE 200Gb/s to 4x50Gb/s, QSFP56 to 4xSFP56, colored, 2.5m, 26AWG	EOL [P-Rel]
HDR	200GE	980-9146K-00H001	MCP7Y60-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9146L-00H002	MCP7Y60-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9193M-00H01A	MCP7Y60-H01A	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 2x200Gbps, OSFP to 2xQSFP56, 1.5m, fin to flat	MP
HDR	200GE	980-9193N-00H001	MCP7Y70-H001	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 1m, fin to flat	MP
HDR	200GE	980-9193O-00H002	MCP7Y70-H002	NVIDIA passive copper splitter cable, 400(2x200)Gbps to 4x100Gbps, OSFP to 4xQSFP56, 2m, fin to flat	MP
HDR	200GE	980-9147P-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	980-91124-00H003	MFS1S00-H003E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 3m	EOL [HVM]
HDR	200GE	980-91457-00H003	MFS1S00-H003V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 3m	MP
HDR	N/A	980-9145A-00H005	MFS1S00-H005E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 5m	EOL [HVM]
HDR	200GE	980-9145D-00H005	MFS1S00-H005V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 5m	MP
HDR	N/A	980-9145G-00H010	MFS1S00-H010E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 10m	EOL [HVM]
HDR	200GE	980-9145J-00H010	MFS1S00-H010V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 10m	MP
HDR	N/A	980-9145M-00H015	MFS1S00-H015E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 15m	EOL [HVM]
HDR	200GE	980-9145O-00H015	MFS1S00-H015V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 15m	MP
HDR	N/A	980-9145R-00H020	MFS1S00-H020E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 20m	EOL [HVM]
HDR	200GE	980-9145T-00H020	MFS1S00-H020V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 20m	MP
HDR	N/A	980-9145Y-	MFS1S00-H030E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab,	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00H030		30m	
HDR	200GE	980-91440-00H030	MFS1S00-H030V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 30m	MP
HDR	N/A	980-91455-00H050	MFS1S00-H050E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 50m	EOL [HVM]
HDR	200GE	980-91447-00H050	MFS1S00-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	N/A	980-9144G-00H100	MFS1S00-H100E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM]
HDR	200GE	980-9144H-00H100	MFS1S00-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	N/A	980-9144I-00H130	MFS1S00-H130E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 130m	EOL [HVM]
HDR	200GE	980-9144K-00H130	MFS1S00-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP
HDR	200GE	980-9144N-00H150	MFS1S00-H150V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 150m	MP
N/A	200GE	980-9144P-00V003	MFS1S00-V003E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 3m	LTB [HVM]
N/A	200GE	980-9145Q-00V005	MFS1S00-V005E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 5m	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	200GE	980-9145R-00V010	MFS1S00-V010E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 10m	LTB [HVM]
N/A	200GE	980-9144S-00V015	MFS1S00-V015E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 15m	LTB [HVM]
N/A	200GE	980-9144T-00V020	MFS1S00-V020E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 20m	LTB [HVM]
N/A	200GE	980-9144U-00V030	MFS1S00-V030E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 30m	LTB [HVM]
N/A	200GE	980-9144V-00V050	MFS1S00-V050E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 50m	LTB [HVM]
N/A	200GE	980-9144W-00V100	MFS1S00-V100E	NVIDIA active fiber cable, 200GbE, 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM] [HIBERN/ATE]
HDR	N/A	980-91452-00H003	MFS1S50-H003E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 3m	EOL [HVM]
HDR	200GE	980-91445-00H003	MFS1S50-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM
HDR	N/A	980-91956-00H005	MFS1S50-H005E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 5m	EOL [HVM]
HDR	200GE	980-91969-00H005	MFS1S50-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
HDR	N/A	980-9195A-00H010	MFS1S50-H010E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 10m	EOL [HVM]
HDR	200GE	980-9196D-00H010	MFS1S50-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	N/A	980-9195E-00H015	MFS1S50-H015E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 15m	EOL [HVM]
HDR	200GE	980-9196H-00H015	MFS1S50-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	N/A	980-9195I-00H020	MFS1S50-H020E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	200GE	980-9196L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	N/A	980-9195M-00H030	MFS1S50-H030E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	200GE	980-9196P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
HDR	200GE	980-9195S-00H040	MFS1S50-H040V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 40m	Prototype
HDR	200GE	980-9195T-00H050	MFS1S50-H050V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 50m	Prototype
N/A	200GE	980-9195Q-	MFS1S50-V003E	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
		00V003		2xQSFP56, LSZH, black pulltab, 3m	
N/A	200GE	980-9196R-00V005	MFS1S50-V005E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 5m	EOL [HVM]
N/A	200GE	980-9196S-00V010	MFS1S50-V010E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 10m	EOL [HVM]
N/A	200GE	980-9196T-00V015	MFS1S50-V015E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 15m	EOL [HVM]
N/A	200GE	980-9195U-00V020	MFS1S50-V020E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 20m	EOL [HVM]
N/A	200GE	980-9195V-00V030	MFS1S50-V030E	NVIDIA active fiber splitter cable, 200GbE, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56, LSZH, black pulltab, 30m	EOL [HVM]
HDR	N/A	980-91961-00H010	MFS1S90-H010E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 10m	LTB [HVM]
HDR	N/A	980-91423-00H020	MFS1S90-H020E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 20m	LTB [HVM]
HDR	N/A	980-91424-00H030	MFS1S90-H030E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	N/A	980-9117S-00HS00	MMA1T00-HS	NVIDIA transceiver, HDR, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
N/A	200GE	980-9120T-00V000	MMA1T00-VS	NVIDIA transceiver, 200GbE, up to 200Gb/s, QSFP56, MPO, 850nm, SR4, up to 100m	HVM

## EDR / 100GbE Cables

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-91620-00C001	MCP1600-C001	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1m 30AWG	EOL [HVM]
N/A	100GE	980-91620-00C001	MCP1600-C001E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-91625-00C001	MCP1600-C001LZ	NVIDIA Passive Copper Cable, ETH 100GbE, 100Gb/s, QSFP, 1m, LSZH, 30AWG	EOL [MP]
N/A	100GE	980-91621-00C002	MCP1600-C002	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2m 30AWG	EOL [HVM]
N/A	100GE	980-91622-00C002	MCP1600-C002E26N	NVIDIA® Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 26AWG, CA-N	Preliminary
N/A	100GE	980-9162V-00C002	MCP1600-C002E30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 2m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9162X-00C003	MCP1600-C003	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 3m 28AWG	EOL [HVM]
N/A	100GE	980-9162Z-00C003	MCP1600-C003E26N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-91620-00C003	MCP1600-C003E30L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 3m, Black, 30AWG, CA-L	HVM
N/A	100GE	980-91622-00C003	MCP1600-C003LZ	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, 3m, LSZH, 26AWG	EOL [MP]
N/A	100GE	980-91625-00C005	MCP1600-C005E26L	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 5m, Black, 26AWG, CA-L	HVM
N/A	100GE	980-91626-00C00A	MCP1600-C00A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 0.5m 30AWG	EOL [HVM]
N/A	100GE	980-91627-00C00A	MCP1600-C00AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-91629-00C00B	MCP1600-C00BE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 0.75m, Black, 30AWG, CA-N	EOL [HVM]
N/A	100GE	980-9162B-00C01A	MCP1600-C01A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 1.5m 30AWG	EOL [HVM]
N/A	100GE	980-9162C-00C01A	MCP1600-C01AE30N	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP28, 1.5m, Black, 30AWG, CA-N	HVM
N/A	100GE	980-9162G-00C02A	MCP1600-C02A	NVIDIA Passive Copper cable, ETH 100GbE, 100Gb/s, QSFP, PVC, 2.5m 30AWG	EOL [HVM]

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

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

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I645-00C001	MCP7F00-A001R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 1m, 30AWG	EOL [HVM]
N/A	100GE	980-9I486-00C001	MCP7F00-A001R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48A-00C002	MCP7F00-A002R	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 2m, 30AWG	EOL [HVM]
N/A	100GE	980-9I48B-00C002	MCP7F00-A002R30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9I48G-00C003	MCP7F00-A003R26N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I48H-00C003	MCP7F00-A003R30L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48J-00C005	MCP7F00-A005R26L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m, Colored, 26AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48M-00C01A	MCP7F00-A01AR	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, colored pulltabs, 1.5m, 30AWG	EOL [HVM]
N/A	100GE	980-9I48N-00C01A	MCP7F00-A01AR30N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 1.5m, Colored, 30AWG, CA-N	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I48S-00C02A	MCP7F00-A02AR26N	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I48T-00C02A	MCP7F00-A02AR30L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I48U-00C02A	MCP7F00-A02ARLZ	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 2.5m, LSZH, Colored, 28AWG	EOL [P-Rel]
N/A	100GE	980-9I48X-00C03A	MCP7F00-A03AR26L	NVIDIA passive copper hybrid cable, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3.5m, Colored, 26AWG, CA-L	EOL [HVM]
N/A	100GE	980-9I61C-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]
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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9199K-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	980-9199L-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	980-9199O-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	980-9199Q-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	980-9139R-00C003	MCP7H00-G003R30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 3m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9199S-00C004	MCP7H00-G004R26L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 4m, Colored, 26AWG, CA-L	EOL [HVM]
N/A	100GE	980-9199W-00C01A	MCP7H00-G01AR	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 1.5m, 30AWG	EOL [HVM]
N/A	100GE	980-9199X-00C01A	MCP7H00-G01AR30N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 1.5m, Colored, 30AWG, CA-N	LTB [HVM]
N/A	100GE	980-9199Z-00C02A	MCP7H00-G02AR	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, colored pulltabs, 2.5m, 30AWG	EOL [HVM]



IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I994-00C02A	MCP7H00-G02AR26N	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 26AWG, CA-N	EOL [HVM]
N/A	100GE	980-9I395-00C02A	MCP7H00-G02AR30L	NVIDIA passive copper hybrid cable, ETH 100Gb/s to 2x50Gb/s, QSFP28 to 2xQSFP28, 2.5m, Colored, 30AWG, CA-L	LTB [HVM]
N/A	100GE	980-9I13S-00C003	MFA1A00-C003	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 3m	HVM
N/A	100GE	980-9I13X-00C005	MFA1A00-C005	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 5m	HVM
N/A	100GE	980-9I134-00C010	MFA1A00-C010	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 10m	HVM
N/A	100GE	980-9I13A-00C015	MFA1A00-C015	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 15m	HVM
N/A	100GE	980-9I13F-00C020	MFA1A00-C020	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 20m	HVM
N/A	100GE	980-9I13N-00C030	MFA1A00-C030	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 30m	HVM
N/A	100GE	980-9I130-00C050	MFA1A00-C050	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 50m	HVM
N/A	100GE	980-9I13B-00C100	MFA1A00-C100	NVIDIA active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 100m	LTB [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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]
N/A	100GE	980-9I37H-	MFA7A20-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28,	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00C003		3m	
N/A	100G E	980-9137I-00C005	MFA7A20-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 5m	EOL [HVM]
N/A	100G E	980-9140J-00C010	MFA7A20-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 10m	EOL [HVM]
N/A	100G E	980-9140K-00C020	MFA7A20-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 20m	EOL [HVM]
N/A	100G E	980-9140L-00C002	MFA7A20-C02A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 2.5m	Preliminary
N/A	100G E	980-9140M-00C003	MFA7A20-C03A	NVIDIA® active fiber hybrid solution, ETH 100GbE to 2x50GbE, QSFP28 to 2xQSFP28, 3.5m	Preliminary
N/A	100G E	980-9140N-00C003	MFA7A50-C003	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 3m	EOL [HVM]
N/A	100G E	980-9140O-00C005	MFA7A50-C005	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 5m	EOL [HVM]
N/A	100G E	980-9149P-00C010	MFA7A50-C010	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 10m	EOL [HVM]
N/A	100G E	980-9149Q-00C015	MFA7A50-C015	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 15m	EOL [HVM]
N/A	100G E	980-9149R-00C020	MFA7A50-C020	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 20m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	100GE	980-9I49S-00C030	MFA7A50-C030	NVIDIA active fiber hybrid solution, ETH 100GbE to 4x25GbE, QSFP28 to 4xSFP28, 30m	EOL [HVM]
N/A	100GE	980-9I149-00CS00	MMA1B00-C100D	NVIDIA transceiver, 100GbE, QSFP28, MPO, 850nm, SR4, up to 100m, DDMI	HVM
N/A	100GE	980-9I17D-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	MC2207 126-004	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 4m	EOL [HVM]
FDR	56GE	980-9I67A-00L003	MC2207 128-003	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I67C-00L02A	MC2207 128-0A2	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2.5m	EOL [MP]
FDR	56GE	980-9I67D-00L001	MC2207 130-001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1m	EOL [HVM]
FDR	56GE	980-9I67E-00L002	MC2207 130-002	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2m	EOL [HVM]
FDR	56GE	980-9I67F-00L00A	MC2207 130-00A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 0.5m	EOL [HVM]
FDR	56GE	980-9I67G-00L01A	MC2207 130-0A1	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]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
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] [HIBERN/AT E]
FDR	56GE	980-9I152-00L050	MC2207 31V-050	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 50m	EOL [HVM]
FDR	56GE	980-9I153-00L075	MC2207 31V-075	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 75m	EOL [HVM]
FDR	56GE	980-9I154-00L100	MC2207 31V-100	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 100m	EOL [HVM]
FDR	56GE	980-9I675-00L001	MCP170 L-F001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 1m	EOL [P-Rel]
FDR	56GE	980-9I678-00L00A	MCP170 L-F00A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 0.5m	EOL [P-Rel]
FDR	56GE	980-9I679-	MCP170 L-F01A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, LSZH, 1.5m	EOL [P-Rel] [HIBERN/AT

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00L01A			E]
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-	MC2309130-	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+,	EOL [HVM] [HIBERN/A

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00J00A	00A	0.5m	TE]
N/A	10GE	980-91682-00J004	MC330 9124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
N/A	10GE	980-91683-00J005	MC330 9124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
N/A	10GE	980-91684-00J006	MC330 9124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
N/A	10GE	980-91685-00J007	MC330 9124-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
N/A	10GE	980-91686-00J001	MC330 9130-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
N/A	10GE	980-91688-00J002	MC330 9130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
N/A	10GE	980-9168B-00J003	MC330 9130-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
N/A	10GE	980-9168F-00J00A	MC330 9130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
N/A	10GE	980-9168G-00J01A	MC330 9130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
N/A	10GE	980-9168H-00J02A	MC330 9130-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]



IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	10GE	980-9168A-00J001	MCP2100-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9168B-00J002	MCP2100-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9168C-00J003	MCP2100-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168E-00J001	MCP2104-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Black Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9168F-00J002	MCP2104-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168G-00J003	MCP2104-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168H-00J01A	MCP2104-X01AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	930-90000-0000-343	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	930-90000-	MFM1T02A-SR	NVIDIA SFP+ optical module for 10GBASE-SR	HVM

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		0000-409			
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	980-9171G-00J000	MAM1Q00A-QSA	NVIDIA cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	HVM
N/A	10GE	980-9165P-00J005	MC2309124-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
N/A	10GE	980-9165Q-00J007	MC2309124-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
N/A	10GE	980-9165R-00J001	MC2309130-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
N/A	10GE	980-9165S-00J002	MC2309130-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
N/A	10GE	980-9165T-	MC2309130-	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
		00J003	003		
N/A	10GE	980-9165U-00J00A	MC230 9130-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-91682-00J004	MC330 9124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
N/A	10GE	980-91683-00J005	MC330 9124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
N/A	10GE	980-91684-00J006	MC330 9124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
N/A	10GE	980-91685-00J007	MC330 9124-007	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]
N/A	10GE	980-91686-00J001	MC330 9130-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
N/A	10GE	980-91688-00J002	MC330 9130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
N/A	10GE	980-9168B-00J003	MC330 9130-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
N/A	10GE	980-9168F-00J00A	MC330 9130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
N/A	10GE	980-9168G-00J01A	MC330 9130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA P/N	Legacy P/N	Description	LifeCycle Phase
N/A	10GE	980-9168H-00J02A	MC3309130-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
N/A	10GE	980-9168B-00J002	MCP2100-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9168C-00J003	MCP2100-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168E-00J001	MCP2104-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Black Pulltab, Connector Label	EOL [HVM] [HIBERN/ATE]
N/A	10GE	980-9168F-00J002	MCP2104-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168G-00J003	MCP2104-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168H-00J01A	MCP2104-X01AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	980-9168I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
N/A	10GE	930-90000-0000-343	MFM1T02A-LR	NVIDIA SFP+ optical module for 10GBASE-LR	HVM
N/A	10GE	930-90000-0000-409	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	980-91270-00IM00	MC3208 011-SX	NVIDIA Optical module, ETH 1GbE, 1Gb/s, SFP, LC-LC, SX 850nm, up to 500m	EOL [P-Rel]
N/A	1GE	980-91251-00IS00	MC3208 411-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 2xQSFP112 AOC 800Gb/s to 2x400Gb/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)
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)

Speed	Cable OPN	Description
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	AQPMANQ4E DMA0784	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	FCBN425QE1 C30-C1	100GbE Quadwire® QSFP28 Active Optical Cable 30M
100 GbE	FTLC1151RD PL	TRANSCIEVER 100GBE QSFP LR4
100 GbE	FTLC9152RG PL	100G 100M QSFP28 SWDM4 OPT TRANS
100 GbE	FTLC9555REP M3-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 GbE	QSFP28-LR4-AJ	CISCO-PRE 100GbE LR4 QSFP28 Transceiver Module
100 GbE	QSFP-40/100-SRBD	CISCO-PRE 100G AOM BiDi

Speed	Cable OPN	Description
100 GbE	SQF1002L4L NC101P	Cisco-SUMITOMO 100GbE AOM
40GbE	2231254-2	Cisco 3m 40GbE copper
40GbE	AFBR-7QER15Z-CS1	Cisco 40GbE 15m AOC
40GbE	BN-QS-SP-CBL-5M	PASSIVE COPPER SPLITTER CABLE ETH 40GBE TO 4X10GBE 5M
40GbE	NDCCGJ-C402	15m (49ft) Avago AFBR-7QER15Z Compatible 40G QSFP+ Active Optical Cable
40GbE	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	980-91068-00NM00	MMS1X00-NS400	NVIDIA single port transceiver, 400Gbps, NDR, QSFP112, MPO, 1310nm SMF, up to 500m, flat top	Early BOM
NDR	NA	980-9181B-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	980-9181C-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	980-9176G-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	980-9176H-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	980-91928-00N001	MCP7Y10-N001	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,1m, fin to flat	P-Rel
NDR	NA	980-91929-00N002	MCP7Y10-N002	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,2m, fin to flat	P-Rel
NDR	NA	980-9180P-00N003	MCP7Y10-N003	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,3m, fin to flat	P-Rel
NDR	NA	980-9180A-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	980-9180Q-00N02A	MCP7Y10-N02A	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 2x400Gbps, OSFP to 2xQSFP112,2.5m, fin to flat	P-Rel



IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	NA	980-9180B-00N001	MCP7Y40-N001	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 1m, fin to flat	P-Rel
NDR	NA	980-9180C-00N002	MCP7Y40-N002	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 2m, fin to flat	P-Rel
NDR	NA	980-9175R-00N003	MCP7Y40-N003	NVIDIA passive copper splitter cable, 800(2x400)Gbps to 4x200Gbps, OSFP to 4xQSFP112, 3m, fin to flat	P-Rel
NDR	NA	980-9175D-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	980-9175S-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	980-9173U-000003	MFP7E10-N003	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 3m	MP
NDR	NA	980-9173V-000005	MFP7E10-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	NA	980-9157W-000007	MFP7E10-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	NA	980-9157X-00N010	MFP7E10-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	NA	980-9157Y-000015	MFP7E10-N015	NVIDIA passive fiber cable, MMF , MPO12 APC to MPO12 APC, 15m	MP
NDR	NA	980-9157Z-	MFP7E10-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 20m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		000020			
NDR	NA	980-91573-00N025	MFP7E10-N025	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 25m	MP
NDR	NA	980-91570-00N030	MFP7E10-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 30m	MP
NDR	NA	980-91570-00N035	MFP7E10-N035	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 35m	MP
NDR	NA	980-91570-00N040	MFP7E10-N040	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	NA	980-9157Y-00N050	MFP7E10-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	NA	980-91571-00N003	MFP7E20-N003	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	NA	980-91572-00N005	MFP7E20-N005	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	NA	980-91573-00N007	MFP7E20-N007	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	NA	980-91554-00N010	MFP7E20-N010	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 10m	MP
NDR	NA	980-91555-00N015	MFP7E20-N015	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 15m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	NA	980-91556-00N020	MFP7E20-N020	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	NA	980-91557-00N030	MFP7E20-N030	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 30m	MP
NDR	NA	980-9155Z-00N050	MFP7E20-N050	NVIDIA passive fiber cable, MMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	NA	980-91559-00N002	MFP7E30-N002	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 2m	LTB [MP]
NDR	NA	980-9155A-00N003	MFP7E30-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 3m	MP
NDR	NA	980-9155B-00N005	MFP7E30-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 5m	MP
NDR	NA	980-9158C-00N007	MFP7E30-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 7m	MP
NDR	NA	980-9158D-00N010	MFP7E30-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 10m	MP
NDR	NA	980-9158E-00N015	MFP7E30-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 15m	MP
NDR	NA	980-9158F-00N020	MFP7E30-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 20m	MP
NDR	NA	980-9158G-	MFP7E30-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 30m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00N030			
NDR	NA	980-91580-00N030	MFP7E30-N040	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 40m	MP
NDR	NA	980-9158H-00N050	MFP7E30-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 50m	MP
NDR	NA	980-91581-00N050	MFP7E30-N060	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 60m	MP
NDR	NA	980-91582-00N050	MFP7E30-N070	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 70m	MP
NDR	NA	980-9158I-00N100	MFP7E30-N100	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 100m	MP
NDR	NA	980-9158J-00N150	MFP7E30-N150	NVIDIA passive fiber cable, SMF, MPO12 APC to MPO12 APC, 150m	MP
NDR	NA	980-9158K-00N003	MFP7E40-N003	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 3m	MP
NDR	NA	980-9158L-00N005	MFP7E40-N005	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 5m	MP
NDR	NA	980-9158M-00N007	MFP7E40-N007	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 7m	MP
NDR	NA	980-9158N-00N010	MFP7E40-N010	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 10m	MP

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NDR	NA	980-9156O-00N015	MFP7E40-N015	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 15m	MP
NDR	NA	980-9156P-00N020	MFP7E40-N020	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 20m	MP
NDR	NA	980-9156Q-00N030	MFP7E40-N030	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 30m	MP
NDR	NA	980-9156R-000050	MFP7E40-N050	NVIDIA passive fiber cable, SMF, MPO12 APC to 2xMPO12 APC, 50m	MP
NDR	NA	980-91693-00NS00	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	980-91548-00H001	MCP1650-H001E30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 1m	HVM
HDR	200GE	980-91549-00H002	MCP1650-H002E26	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 2m	HVM
HDR	200GE	980-9154A-00H00A	MCP1650-H00AE30	Nvidia Passive Copper cable, up to 200Gbps, QSFP56 to QSFP56, 0.5m	HVM

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
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
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 SKU	Legacy P/N	Description	LifeCycle Phase
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-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	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-	MFS1S00-H030E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 30m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00H030			
HDR	200GE	980-91440-00H030	MFS1S00-H030V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 30m	MP
HDR	NA	980-91455-00H050	MFS1S00-H050E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 50m	EOL [HVM]
HDR	200GE	980-91447-00H050	MFS1S00-H050V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 50m	MP
HDR	NA	980-9144G-00H100	MFS1S00-H100E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 100m	EOL [HVM]
HDR	200GE	980-9144H-00H100	MFS1S00-H100V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 100m	MP
HDR	NA	980-9144I-00H130	MFS1S00-H130E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 130m	EOL [HVM]
HDR	200GE	980-9144K-00H130	MFS1S00-H130V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 130m	MP
HDR	200GE	980-9144N-00H150	MFS1S00-H150V	Nvidia active optical cable, up to 200Gbps , QSFP56 to QSFP56, 150m	MP
HDR	NA	980-91452-00H003	MFS1S50-H003E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 3m	EOL [HVM]
HDR	200GE	980-91445-00H003	MFS1S50-H003V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 3m	HVM



IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
HDR	NA	980-91956-00H005	MFS1S50-H005E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 5m	EOL [HVM]
HDR	200GE	980-91969-00H005	MFS1S50-H005V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 5m	HVM
HDR	NA	980-9195A-00H010	MFS1S50-H010E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 10m	EOL [HVM]
HDR	200GE	980-9196D-00H010	MFS1S50-H010V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 10m	HVM
HDR	NA	980-9195E-00H015	MFS1S50-H015E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 15m	EOL [HVM]
HDR	200GE	980-9196H-00H015	MFS1S50-H015V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 15m	HVM
HDR	NA	980-9195I-00H020	MFS1S50-H020E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	200GE	980-9196L-00H020	MFS1S50-H020V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 20m	HVM
HDR	NA	980-9195M-00H030	MFS1S50-H030E	NVIDIA active fiber splitter cable, IB HDR, 200Gb/s to 2x100Gb/s, QSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	200GE	980-9196P-00H030	MFS1S50-H030V	Nvidia active optical splitter cable, 200Gbps to 2x100Gbps , QSFP56 to 2x QSFP56, 30m	HVM
HDR	NA	980-91961-	MFS1S90-H010E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00H010		2xQSFP56 , LSZH, 10m	
HDR	NA	980-91423-00H020	MFS1S90-H020E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 20m	EOL [HVM]
HDR	NA	980-91424-00H030	MFS1S90-H030E	NVIDIA active fiber splitter cable, IB HDR, 2x200Gb/s to 2x200Gb/s, 2xQSFP56 to 2xQSFP56 , LSZH, 30m	EOL [HVM]
HDR	NA	980-91175-00HS00	MMA1T00-HS	NVIDIA transceiver, HDR, QSFP56, MPO, 850nm, SR4, up to 100m	HVM
HDR	200GE	980-9145E-09H070	MFS1S00-H070V	NVIDIA active optical cable, up to 200Gb/s IB HDR, QSFP56, LSZH, 70m	MP
HDR	200GE	980-9145L-00H150	MFS1S00-H150E	NVIDIA active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 150m	EOL [HVM]
HDR	200GE	980-9145O-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	980-91042-00C000	MMS1V70-CM	NVIDIA transceiver, 100GbE, QSFP28, LC-LC, 1310nm, DR1	P-Rel
EDR	100GE	980-9162P-	MCP1600-E001	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 1m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00C001		30AWG	
EDR	NA	980-9I62Q-00E001	MCP160 0-E001E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 1m, Black, 30AWG	HVM
EDR	100GE	980-9I62S-00C002	MCP160 0-E002	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 2m 28AWG	EOL [HVM]
EDR	NA	980-9I62T-00E002	MCP160 0-E002E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 26AWG	Preliminary
EDR	NA	980-9I62U-00E002	MCP160 0-E002E30	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 2m, Black, 30AWG	HVM
EDR	100GE	980-9I62V-00C003	MCP160 0-E003	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m 26AWG	EOL [HVM]
EDR	NA	980-9I62W-00E003	MCP160 0-E003E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 3m, Black, 26AWG	HVM
EDR	NA	980-9I62Y-00E004	MCP160 0-E004E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 4m, Black, 26AWG	EOL [HVM]
EDR	NA	980-9I62Z-00E005	MCP160 0-E005E26	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP28, 5m, Black, 26AWG	HVM
EDR	NA	980-9I620-00E00A	MCP160 0-E00A	NVIDIA Passive Copper cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 0.5m 30AWG	EOL [HVM]
EDR	NA	980-9I621-00E00A	MCP160 0-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-	MFA1A00-E010	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 10m	HVM

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00E010			
EDR	NA	980-9I13S-00E015	MFA1A00-E015	NVIDIA active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 15m	EOL [HVM]
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-	MC2207128-003	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00L003			
FDR	56GE	980-9I67C-00L02A	MC22071 28-0A2	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2.5m	EOL [MP]
FDR	56GE	980-9I67D-00L001	MC22071 30-001	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1m	EOL [HVM]
FDR	56GE	980-9I67E-00L002	MC22071 30-002	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 2m	EOL [HVM]
FDR	56GE	980-9I67F-00L00A	MC22071 30-00A	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 0.5m	EOL [HVM]
FDR	56GE	980-9I67G-00L01A	MC22071 30-0A1	NVIDIA passive copper cable, VPI, up to 56Gb/s, QSFP, 1.5m	EOL [HVM]
FDR	56GE	980-9I15U-00L003	MC22073 1V-003	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 3m	EOL [HVM]
FDR	56GE	980-9I15V-00L005	MC22073 1V-005	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 5m	EOL [HVM]
FDR	56GE	980-9I15W-00L010	MC22073 1V-010	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 10m	EOL [HVM]
FDR	56GE	980-9I15X-00L015	MC22073 1V-015	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 15m	EOL [HVM]
FDR	56GE	980-9I15Y-00L020	MC22073 1V-020	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 20m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
FDR	56GE	980-9I15Z-00L025	MC22073 1V-025	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 25m	EOL [HVM]
FDR	56GE	980-9I150-00L030	MC22073 1V-030	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 30m	EOL [HVM]
FDR	56GE	980-9I151-00L040	MC22073 1V-040	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 40m	EOL [HVM] [HIBERNATE]
FDR	56GE	980-9I152-00L050	MC22073 1V-050	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 50m	EOL [HVM]
FDR	56GE	980-9I153-00L075	MC22073 1V-075	NVIDIA active fiber cable, VPI, up to 56Gb/s, QSFP, 75m	EOL [HVM]
FDR	56GE	980-9I154-00L100	MC22073 1V-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]



IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	40GE	980-9114E-00B005	MC221-0310-005	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 5m	EOL [MP]
NA	40GE	980-9114F-00B010	MC221-0310-010	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 10m	EOL [MP]
NA	40GE	980-9114G-00B015	MC221-0310-015	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 15m	EOL [MP]
NA	40GE	980-9114H-00B020	MC221-0310-020	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 20m	EOL [MP]
NA	40GE	980-9114I-00B030	MC221-0310-030	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 30m	EOL [MP]
NA	40GE	980-9114J-00B050	MC221-0310-050	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 50m	EOL [MP]
NA	40GE	980-9114K-00B100	MC221-0310-100	NVIDIA active fiber cable, ETH 40GbE, 40Gb/s, QSFP, 100m	EOL [MP]
NA	40GE	980-9164V-00B005	MC260-9125-005	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 5m	EOL [P-Rel]
NA	40GE	980-9164W-00B001	MC260-9130-001	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1m	EOL [HVM]
NA	40GE	980-9164Y-00B003	MC260-9130-003	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 3m	EOL [HVM]
NA	40GE	980-9172A-	MCA7J6-0-C003	NVIDIA® passive fiber hybrid cable, MPO to 8xLC, 10m	Preliminary

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00B010			
NA	40GE	980-9172H-00B010	MCA7J70-C003	NVIDIA® passive fiber hybrid cable, MPO to 8xLC, 10m	Preliminary
NA	40GE	980-9166U-00B001	MCP1700-B001E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1m, Black Pulltab	EOL [HVM]
NA	40GE	980-9166V-00B002	MCP1700-B002E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2m, Black Pulltab	EOL [HVM]
NA	40GE	980-9166W-00B003	MCP1700-B003E	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 3m, Black Pulltab	EOL [HVM]
NA	40GE	980-9166X-00B01A	MCP1700-B01AE	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 1.5m, Black Pulltab	EOL [MP]
NA	40GE	980-9166Y-00B02A	MCP1700-B02AE	NVIDIA passive copper cable, ETH 40GbE, 40Gb/s, QSFP, 2.5m, Black Pulltab	EOL [MP]
NA	40GE	980-9164X-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	980-91640-00B002	MCP7904-X002A	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 2m, Black Pulltab, customized label	EOL [HVM]
NA	40GE	980-91641-00B003	MCP7904-X003A	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 3m, Black Pulltab, customized label	EOL [HVM] [HIBERNATE]
NA	40GE	980-91642-	MCP7904-	NVIDIA passive copper hybrid cable, ETH 40GbE to 4x10GbE, QSFP to 4xSFP+, 1.5m,	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00B01A	X01AA	Black Pulltab, customized label	
NA	40GE	980-91643-00B02A	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	980-91426-00BM00	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	980-91781-00A000	MAM1Q00A-QSA28	NVIDIA cable module, ETH 25GbE, 100Gb/s to 25Gb/s, QSFP28 to SFP28	HVM
NA	25GE	980-9163J-00A001	MCP2M00-A001	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, 30AWG	EOL [HVM]
NA	25GE	980-9163L-00A001	MCP2M00-A001E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9163N-00A002	MCP2M00-A002E26N	NVIDIA® Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 26AWG, CA-N	Preliminary
NA	25GE	980-9163O-00A002	MCP2M00-A002E30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2m, Black, 30AWG, CA-N	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
NA	25GE	980-9163R-00A003	MCP2M00 - A003E26N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 26AWG, CA-N	EOL [HVM]
NA	25GE	980-9163S-00A003	MCP2M00 -A003E30L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 3m, Black, 30AWG, CA-L	EOL [HVM]
NA	25GE	980-9163T-00A004	MCP2M00 -A004E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 4m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9163V-00A005	MCP2M00 -A005E26L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 5m, Black, 26AWG, CA-L	EOL [HVM]
NA	25GE	980-9163W-00A00A	MCP2M00 -A00A	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, 30AWG	EOL [HVM]
NA	25GE	980-9163X-00A00A	MCP2M00 - A00AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 0.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-9163Z-00A01A	MCP2M00 - A01AE30N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 1.5m, Black, 30AWG, CA-N	EOL [HVM]
NA	25GE	980-91631-00A02A	MCP2M00 - A02AE26N	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 26AWG, CA-N	EOL [HVM]
NA	25GE	980-91632-00A02A	MCP2M00 -A02AE30L	NVIDIA Passive Copper cable, ETH, up to 25Gb/s, SFP28, 2.5m, Black, 30AWG, CA-L	EOL [HVM]
NA	25GE	980-91A1T-00A003	MFA2P10-A003	NVIDIA active optical cable 25GbE, SFP28, 3m	EOL [HVM]
NA	25GE	980-9153W-	MFA2P10-A005	NVIDIA active optical cable 25GbE, SFP28, 5m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00A005			
NA	25GE	980-9153Z-00A007	MFA2P10-A007	NVIDIA active optical cable 25GbE, SFP28, 7m	EOL [HVM]
NA	25GE	980-91532-00A010	MFA2P10-A010	NVIDIA active optical cable 25GbE, SFP28, 10m	EOL [HVM]
NA	25GE	980-91535-00A015	MFA2P10-A015	NVIDIA active optical cable 25GbE, SFP28, 15m	EOL [HVM]
NA	25GE	980-91536-00A020	MFA2P10-A020	NVIDIA active optical cable 25GbE, SFP28, 20m	EOL [HVM]
NA	25GE	980-91539-00A030	MFA2P10-A030	NVIDIA active optical cable 25GbE, SFP28, 30m	EOL [HVM]
NA	25GE	980-9153A-00A050	MFA2P10-A050	NVIDIA active optical cable 25GbE, SFP28, 50m	EOL [HVM]
NA	25GE	980-91094-00AR00	MMA2L20-AR	NVIDIA optical transceiver, 25GbE, 25Gb/s, SFP28, LC-LC, 1310nm, LR up to 10km	MP
NA	25GE	980-91595-00AM00	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	980-9171G-00J000	MAM1 Q00A-QSA	NVIDIA cable module, ETH 10GbE, 40Gb/s to 10Gb/s, QSFP to SFP+	HVM
NA	10GE	980-9165P-00J005	MC230 9124-005	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 5m	EOL [P-Rel]
NA	10GE	980-9165Q-00J007	MC230 9124-007	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 7m	EOL [P-Rel]
NA	10GE	980-9165R-00J001	MC230 9130-001	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 1m	EOL [HVM]
NA	10GE	980-9165S-00J002	MC230 9130-002	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 2m	EOL [HVM]
NA	10GE	980-9165T-00J003	MC230 9130-003	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 3m	EOL [HVM]
NA	10GE	980-9165U-00J00A	MC230 9130-00A	NVIDIA passive copper hybrid cable, ETH 10GbE, 10Gb/s, QSFP to SFP+, 0.5m	EOL [HVM] [HIBERNATE]
NA	10GE	980-91682-00J004	MC330 9124-004	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 4m	EOL [HVM]
NA	10GE	980-91683-00J005	MC330 9124-005	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 5m	EOL [HVM]
NA	10GE	980-91684-00J006	MC330 9124-006	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 6m	EOL [HVM]
NA	10GE	980-91685-	MC330 9124-	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 7m	EOL [HVM]

IB Data Rate	Eth Data Rate	NVIDIA SKU	Legacy P/N	Description	LifeCycle Phase
		00J007	007		
NA	10GE	980-91686-00J001	MC330 9130-001	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m	EOL [HVM]
NA	10GE	980-91688-00J002	MC330 9130-002	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m	EOL [HVM]
NA	10GE	980-9168B-00J003	MC330 9130-003	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m	EOL [HVM]
NA	10GE	980-9168F-00J00A	MC330 9130-00A	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 0.5m	EOL [HVM]
NA	10GE	980-9168G-00J01A	MC330 9130-0A1	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m	EOL [HVM]
NA	10GE	980-9168H-00J02A	MC330 9130-0A2	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m	EOL [HVM]
NA	10GE	980-9168A-00J001	MCP21 00-X001B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1m, Blue Pulltab, Connector Label	EOS
NA	10GE	980-9168B-00J002	MCP21 00-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Blue Pulltab, Connector Label	EOL [HVM] [HIBERNATE]
NA	10GE	980-9168C-00J003	MCP21 00-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Blue Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9168E-00J001	MCP21 04-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	980-9168F-00J002	MCP2104-X002B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9168G-00J003	MCP2104-X003B	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 3m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9168H-00J01A	MCP2104-X01AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 1.5m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	980-9168I-00J02A	MCP2104-X02AB	NVIDIA passive copper cable, ETH 10GbE, 10Gb/s, SFP+, 2.5m, Black Pulltab, Connector Label	EOL [HVM]
NA	10GE	930-90000-0000-343	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	930-90000-0000-409	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

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# Release Notes Change Log History

## 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 `bf-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 \(900-21004-0030-000\)](#)



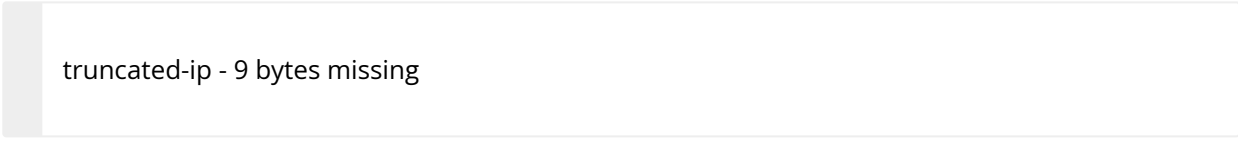
# Bug Fixes History

Ref #	Issue Description
38 14	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).
52	Keywords: Kubernetes; OS
6	Fixed in version: 4.7.0
38 14	Description: The location of the official Kubernetes repository changed, causing apt/yum failures.
52	Keywords: Kubernetes
6	Fixed in version: 4.7.0
38 20	Description: Virtio-net may see TX timeout on specific queues.
66	Keywords: Emulated devices
1	Fixed in version: 4.7.0
38 50	Description: BMC components update fails while using default BMC root password.
45	Keywords: BMC; update
9	Fixed in version: 4.7.0
37 74	Description: When enrolling a certificate to the UEFI DB, the failure message "ERROR: Unsupported file type!" is displayed when the DB was full.
08	Keywords: SNAP; UEFI; error
8	Fixed in version: 4.7.0
37 87	Description: Host PCIe driver hangs when hot plugging a device due to SF creation and error flow handling failure.
00	Keywords: Subfunction; hot-plug
3	Fixed in version: 4.7.0

Ref #	Issue Description
36 63 39 8	<p>Description: On rare occasions, OP-TEE may panic upon boot.</p> <p>Keywords: fTPM over OP-TEE</p> <p>Fixed in version: 4.7.0</p>
36 77 36 6	<p>Description: On rare occasions, the devices <code>/dev/tpm0</code> and <code>/dev/tpmrm0</code> are not created triggering an fTPM panic during boot. This message indicates that the fTPM over OP-TEE feature is not functional.</p> <p>Keywords: fTPM over OP-TEE</p> <p>Fixed in version: 4.7.0</p>
37 12 91 6	<p>Description: The following fTMP over OP-TEE error appears when booting BlueField:</p> <pre>ftpm-tee PRP0001:01: ftpm_tee_probe: tee_client_open_session failed, err=ffff3024</pre> <p>Keywords: fTPM over OP-TEE</p> <p>Fixed in version: 4.7.0</p>
38 30 03 4	<p>Description: The following bfscripits have been deprecated and may no longer work as expected: <code>bfinst</code>, <code>bfdracut</code>, <code>bfacpievt</code>. These scripits are no longer supported and will eventually be removed. Warning logs have been added to notify users.</p> <p>Keywords: Deprecated bfscripits</p> <p>Fixed in version: 4.7.0</p>
36 18 93 6	<p>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.</p> <p>Keywords: NIC mode</p> <p>Fixed in version: 4.7.0</p>
36 03 14 6	<p>Description: Running <code>mlxfwreset</code> on BlueField-3 may cause the external host to crash when the RShim driver is running on that host.</p> <p>Keywords: RShim; mlxfwreset</p> <p>Fixed in version: 4.7.0</p>

Ref #	Issue Description
34 44 07 3	<p>Description: mlxfwreset is not supported in this release.</p> <p>Keywords: mlxfwreset; support</p> <p>Fixed in version: 4.7.0</p>
36 60 46 0	<p>Description: Ubuntu kernel 5.15.0-88-generic backports a bug from the upstream kernel which results in virtio-net full emulation not functioning.</p> <p>Keywords: Kernel</p> <p>Fixed in version: 4.6.0</p>
36 95 36 7	<p>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.</p> <p>Keywords: UEFI</p> <p>Fixed in version: 4.6.0</p>
35 71 28 5	<p>Description: Intermittent UEFI/grub exception after many power-cycles:</p> <pre> 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 ERR[UEFI]: X4=0x0 X5=0xFFFFFFFFFFFFFFFF X6=0x0 X7=0xFFFFFFFF5 </pre>

Ref #	Issue Description
	<pre>ERR[UEFI]: X8=0xF4B79480 X9=0x2 X10=0xFFFFFFFFFFFFFFFF X11=0xFFFFDC00</pre>
	Keyword: Security
	Fixed in version: 4.5.0
35 99 83 9	<p>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.</p>
	Keyword: Software provisioning; EFI capsule update; eMMC boot partitions
	Fixed in version: 4.5.0
35 56 79 5	<p>Description: The first uplink representor interface may not be renamed to p0 from ethX .</p>
	Keyword: Representors
	Fixed in version: 4.5.0
36 29 87 5	<p>Description: Fixed base address of static ICM .</p>
	Keyword: ICM
	Fixed in version: 4.5.0
33 65 36 3	<p>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.</p>
	Keywords: BlueField-3; virtio-net; UEFI
	Fixed in version: 4.5.0
33 73 84 9	<p>Description: Different OVS-based packages can include their own systemd services which prevents /sbin/mlnx_bf_configure from identifying the right one.</p>
	Keywords: OVS; systemd
	Fixed in version: 4.5.0
36 05 33 2	<p>Description: A dmseg is printed due to the OVS bridge interface being configured DOWN by default.</p>
	Keyword: OVS

Ref #	Issue Description
	Fixed in version: 4.2.1
34 79	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.
04	Keyword: Send; LSO
0	Fixed in version: 4.2.1
35 49	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.
78	Keyword: Linux; NVMe; BFB installation
5	Fixed in version: 4.2.1
33 93 31 6	Description: When LSO is enabled, if the header and data appear in the same fragment, the following warning is given from tcpdump: 
	Keyword: Virtio-net; large send offload
	Fixed in version: 4.2.1
35 54 12	Description: "dmidecode" output does not match "ipmitool fru print" output.
8	Keywords: IPMI; print
	Fixed in version: 4.2.1
35 08	Description: Failure to ssh to Arm via 1GbE OOB interface is experienced after performing warm reboot on the DPU.
01	Keywords: SSH; reboot
8	Fixed in version: 4.2.0
34 51	Description: BSP build number (fourth digit in version number) does not appear in UEFI menu.
53	Keywords: UEFI; software
9	Fixed in version: 4.2.0

Ref #	Issue Description
32 59	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.
80	Keywords: Virtio-net; power cycle; epoll
5	Fixed in version: 4.2.0
32	Description: Enabled reset on MMC to enhance recovery on error.
66 18	Keywords: MMC; reset
0	Fixed in version: 4.2.0
34 48	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.
21 7	Keywords: PKA; OpenSSL
	Fixed in version: 4.2.0
34 48	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.
22	Keywords: Virtio-net; iperf
8	Fixed in version: 4.2.0
34 52	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.
58	Keywords: OpenSSL; PKA
3	Fixed in version: 4.2.0
34	Description: 699140280000 OPN is not supported.
55 87	Keywords: SKU; support
3	Fixed in version: 4.2.0
35 19	Description: Populate the vGIC maintenance interrupt number in MADT to avoid harmless.
34	Keywords: Error
1	Fixed in version: 4.2.0

Ref #	Issue Description
35 22	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.
65	Keywords: Timer frequency
2	Fixed in version: 4.2.0
35 31	Description: Memory info displayed via dmidecode is not correct for memory sizes 32G and above.
96	Keywords: Memory; dmidecode
5	Fixed in version: 4.2.0
33 62	Description: A customized BFB with an older kernel does not support bond speed above 200Gb/s.
18	Keywords: Bond; LAG; speed
1	Fixed in version: 4.2.0
31	Description: DCBX configuration may not take effect.
77	Keywords: DCBX; QoS; Ildpad
56	Fixed in version: 4.2.0
9	Fixed in version: 4.2.0
28 24	Description: Hotplug/unplug of virtio-net devices during host shutdown/bootup may result in failure to do plug/unplug.
85	Keywords: Virtio-net, hotplug
9	Fixed in version: 4.2.0
32 52	Description: Assert errors may be observed in the RShim log after reset/reboot. These errors are harmless and may be ignored.
08	Keywords: RShim; log; error
3	Fixed in version: 4.0.3
32 40	Description: Hotplug of a modern virtio-net device is not supported when VIRTIO_EMULATION_HOTPLUG_TRANS is TRUE from mlxconfig.
06	Keywords: Virtio-net; hotplug; legacy
0	Fixed in version: 4.0.3

Ref #	Issue Description
3240	Description: Virtio-net full emulation is not supported in CentOS 8.2 with inbox-kernel 4.18.0-193.el8.aarch64.
182	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
	Fixed in version: 3.9.0



Ref #	Issue Description
27 80	Description: Eye-opening is not supported on 25GbE integrated-BMC BlueField-2 DPU.
81	Keywords: Firmware, eye-opening
9	Fixed in version: 3.9.0
28 76	Description: Virtio full emulation is not supported by NVIDIA® BlueField®-2 multi-host cards.
44	Keywords: Virtio full emulation; multi-host
7	Fixed in version: 3.9.0
28 55	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.
48	Keywords: Linux crash; efi_call_rts
5	Fixed in version: 3.9.0
29 01	Description: Relaxed ordering is not working properly on virtual functions.
51	Keywords: MLNX_OFED; relaxed ordering; VF
4	Fixed in version: 3.9.0
28 52	Description: On rare occasions, the UEFI variables in UVPS EEPROM are wiped out which hangs the boot process at the UEFI menu.
08	Keywords: UEFI; hang
6	Fixed in version: 3.9.0
29 34	Description: PCIe device address to RDMA device name mapping on x86 host may change after the driver restarts in Arm.
82	Keywords: RDMA; Arm; driver
8	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

Ref #	Issue Description
2787308	<p>Description: At rare occasions during Arm reset on BMC-integrated DPUs, the DPU will send "PCIe Completion" marked as poisoned. Some servers treat that as fatal and may hang.</p> <p>Keywords: Arm reset; BMC integrated</p> <p>Fixed in version: 3.9.0</p>
2585607	<p>Description: Pushing the BFB image fails occasionally with a "bad magic number" error message showing up in the console.</p> <p>Keywords: BFB push; installation</p> <p>Fixed in version: 3.9.0</p>
2802943	<p>Description: SLD detection may not function properly.</p> <p>Keywords: Firmware</p> <p>Fixed in version: 3.9.0</p>
2580945	<p>Description: External host reboot may also reboot the Arm cores if the DPU was configured using mlxconfig.</p> <p>Keywords: Non-volatile configuration; Arm; reboot</p> <p>Fixed in version: 3.9.0</p>
2899740	<p>Description: BlueField-2 may sometimes go to PXE boot instead of Linux after installation.</p> <p>Keywords: Installation; PXE</p> <p>Fixed in version: 3.8.5</p>
2870143	<p>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.</p> <p>Keywords: GRUB; memory</p> <p>Fixed in version: 3.8.5</p>
2873700	<p>Description: The available RShim logging buffer may not have enough space to hold the whole register dump which may cause buffer wraparound.</p> <p>Keywords: RShim; logging</p>

Ref #	Issue Description
	Fixed in version: 3.8.5
280189	Description: IPMI EMU service reports cable link as down when it is actually up.
	Keywords: IPMI EMU
1	Fixed in version: 3.8.0
277986	Description: Virtio-net controller does not work with devices other than mlx5_0/1.
	Keywords: Virtio-net controller
1	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

Ref #	Issue Description
28 53	Description: UEFI secure boot enables the kernel lockdown feature which blocks access by mstmkra.
29	Keywords: Secure boot
5	Fixed in version: 3.8.0
28 54 47	Description: Virtio-net controller may fail to start after power cycle.
2	Keywords: Virtio-net controller
28 54	Description: Memory consumed for a representor exceeds what is necessary making scaling to 504 SF's not possible.
99	Keywords: Memory
5	Fixed in version: 3.8.0
28 56 65	Description: Modifying VF bits yields an error.
2	Keywords: Virtio-net controller
28 59 06	Description: Arm hangs when user is thrown to livefish by FW (e.g. secure boot).
6	Keywords: Arm; livefish
28 66	Description: The current installation flow requires multiple resets after booting the self-install BFB due to the watchdog being armed after capsule update.
08	Keywords: Reset; installation
2	Fixed in version: 3.8.0
28 66 53 7	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

Ref #	Issue Description
28 68	Description: Various errors related to the UPVS store running out of space are observed.
94	Keywords: UPVS; errors
4	Fixed in version: 3.8.0
27	Description: oob_net0 cannot receive traffic after a network restart.
54 79	Keywords: oob_net0
8	Fixed in version: 3.8.0
26 91	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.
17	Keywords: Virtio-net; hotplug
5	Fixed in version: 3.8.0
25 97 97 3	<p>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:</p> <pre data-bbox="228 1150 1461 1770"> # 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 </pre>
	Keywords: CentOS; subfunctions; static configuration
	Fixed in version: 3.7.0

Ref #	Issue Description
25 81	Description: When shared RQ mode is enabled and offloads are disabled, running multiple UDP connections from multiple interfaces can lead to packet drops.
53	Keywords: Offload; shared RQ
4	Fixed in version: 3.7.0
25 81	Description: When OVS-DPDK and LAG are configured, the kernel driver drops the LACP packet when working in shared RQ mode.
62	Keywords: OVS-DPDK; LAG; LACP; shared RQ
1	Fixed in version: 3.7.0
26 01	Description: The gpio-mlxbf2 and mlxbf-gige drivers are not supported on 4.14 kernel.
09	Keywords: Drivers; kernel
4	Fixed in version: 3.7.0
25 84	Description: Virtio-net-controller does not function properly after changing uplink representor MTU.
42	Keywords: Virtio-net controller; MTU
7	Fixed in version: 3.7.0
24 38	Description: VXLAN with IPsec crypto offload does not work.
39	Keywords: VXLAN; IPsec crypto
2	Fixed in version: 3.7.0
24 06	Description: Address Translation Services is not supported in BlueField-2 step A1 devices. Enabling ATS can cause server hang.
40	Keywords: ATS
1	Fixed in version: 3.7.0
24 02	Description: PHYless reset on BlueField-2 devices may cause the device to disappear.
53	Keywords: PHY; firmware reset
1	Fixed in version: 3.7.0

Ref #	Issue Description
2400381	<p>Description: When working with strongSwan 5.9.0bf, running <code>ip xfrm state show</code> returns partial information as to the offload parameters, not showing "mode full".</p> <p>Keywords: strongSwan; ip xfrm; IPsec</p> <p>Fixed in version: 3.7.0</p>
2392604	<p>Description: Server crashes after configuring <code>PCI_SWITCH_EMULATION_NUM_PORT</code> to a value higher than the number of PCIe lanes the server supports.</p> <p>Keywords: Server; hang</p> <p>Fixed in version: 3.7.0</p>
2293791	<p>Description: Loading/reloading NVMe after enabling VirtIO fails with a PCI bar memory mapping error.</p> <p>Keywords: VirtIO; NVMe</p> <p>Fixed in version: 3.7.0</p>
2245983	<p>Description: When working with OVS in the kernel and using Connection Tracking, up to 500,000 flows may be offloaded.</p> <p>Keywords: DPU; Connection Tracking</p> <p>Fixed in version: 3.7.0</p>
1945513	<p>Description: If the Linux OS running on the host connected to the BlueField DPU has a kernel version lower than 4.14, <code>MLNX_OFED</code> package should be installed on the host.</p> <p>Keywords: Host OS</p> <p>Fixed in version: 3.7.0</p>
1900203	<p>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.</p> <p>Workaround: Set a static ARP entry at the BlueField Arm to VXLAN tunnel endpoints.</p> <p>Keywords: ARP; Static; VXLAN; Tunnel; Endpoint</p> <p>Fixed in version: 3.7.0</p>

Ref #	Issue Description
20 82	Description: During boot, the system enters systemctl emergency mode due a corrupt root file system.
98	Keywords: Boot
5	Fixed in version: 3.6.0.11699
22 78	Description: Creating a bond via NetworkManager and restarting the driver (openibd restart) results in no pf0hpf and bond creation failure.
83	Keywords: Bond; LAG; network manager; driver reload
3	Fixed in version: 3.6.0.11699
22 86	Description: Only up to 62 host virtual functions are currently supported.
59	Keywords: DPU; SR-IOV
6	Fixed in version: 3.6.0.11699
23 97	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 <code>ip x s f &amp;&amp; ip x p f</code> .
93	Keywords: IPsec; SR-IOV; driver
2	Fixed in version: 3.6.0.11699
24 05 03	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.
9	Keywords: Ubuntu; reboot; representors; switchdev
	Fixed in version: 3.6.0.11699
24 03 01	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.
9	Keywords: BFB install; timeout; EEPROM UEFI Variable; UVPS
	Fixed in version: 3.6.0.11699
24 58	Description: When using OpenSSL on BlueField platforms where Crypto support is disabled, the following errors may be encountered:



Ref #	Issue Description
040	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
2456	Description: All NVMe emulation counters (Ctrl, SQ, Namespace) return "0" when queried.
947	Keywords: Emulated devices; NVMe
	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
2394	Description: When creating a large number of VirtIO VFs, hung task call traces may be seen in the dmesg.
130	Keywords: VirtIO; call traces; hang
	Fixed in version: 3.5.1.11601
2398	Description: Only up to 60 virtio-net emulated virtual functions are supported if LAG is enabled.
050	Keywords: Virtio-net; LAG
	Fixed in version: 3.5.1.11601
2256	Description: On rare occasions, rebooting the BlueField DPU may result in traffic failure from the x86 host.
134	Keywords: Host; Arm
	Fixed in version: 3.5.1.11601
2400	Description: When emulated PCIe switch is enabled, and more than 8 PFs are enabled, the BIOS boot process might halt.
121	Keywords: Emulated PCIe switch

Ref #	Issue Description
	Fixed in version: 3.5.0.11563
2082	Description: During boot, the system enters systemctl emergency mode due a corrupt root file system.
98	Keywords: Boot
5	Fixed in version: 3.5.0.11563
2249	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.
18	Keywords: RShim; multi-host
7	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.
65	Keywords: SmartNIC; operation modes
0	Fixed in version: 3.5.0.11563
2394	Description: Pushing the BFB image v3.5 with a WinOF-2 version older than 2.60 can cause a crash on the host side.
22	Keywords: Windows; RShim
6	Fixed in version: 3.5.0.11563

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