

BLADE Network Technologies' Gigabit and 10GbE Switches use many different kinds of ports and transceivers. There is a mix of SFP, SFP+, XFP and CX4 ports for Gigabit Ethernet and 10 Gigabit Ethernet (10GbE) connectivity.

This document provides recommended Gigabit and 10GbE transceivers for use in these switches. It also includes some part numbers for recommended CX4 Cables and serial cables.

## HP BladeSystem c-Class

### HP 10Gb Ethernet BL-c Switch (MFG # 445860-B21)

#### 10 Gigabit XFP Transceivers

Transceiver	Part Number
HP 10GBase-SR XFP	443756-B21
HP 10GBase-LR XFP	443757-B21
BLADE 10GBase-CX4 XFP	BN-CKM-X-CX4 CX4 Ports can use passive 10GbE CX4 cables only (see Appendix A - Cables)

#### Serial Cable

Standard DB9 to DB9 null modem cable

### HP 1:10Gb Ethernet BL-c Switch (MFG # 438031-B21)

#### 10 Gigabit XFP Transceivers

Transceiver	Part Number
HP 10GBase-SR XFP	443756-B21
HP 10GBase-LR XFP	443757-B21
BLADE 10GBase-CX4 XFP	BN-CKM-X-CX4 CX4 Ports can use passive 10GbE CX4 cables only (see Appendix A - Cables)

#### Serial Cable

Standard DB9 to DB9 null modem cable

### HP GbE2c Layer 2/3 Ethernet Blade Switch (MFG # 438030-B21)

#### 1 Gigabit SFP Transceivers

Transceiver	Part Number
BLADE 1000BASE-SX SFP (also available from HP as HP Blc GbE2c Layer 2/3 Fiber SFP Option Kit)	BN-CKM-S-SX HP part number: MFG#440627-B21
BLADE 1000BASE-LX SFP (not available from HP)	BN-CKM-S-LX

#### Serial Cable

Standard DB9 to DB9 null modem cable

#### Passive or Active CX4 Cables (see 10GbE CX4 Cables on page 2)

#### Serial Cable

Standard DB9 to DB9 null modem cable

## Appendix A - Cables

### SFP+ Copper Direct Attach Cables

**SFP+ Direct Attach Cables can be used for distances up to 8.5 meters.** The BLADE switches with SFP+ ports will allow any MSA compliant SFP+ DAC cable to operate without disabling the port. The following DAC cables have been qualified in BLADE' embedded switches:

Distance	BLADE Part Number
1M	BN-SP-CBL-1M
3M	BN-SP-CBL-3M
5M	BN-SP-CBL-5M
8.5M	BN-SP-CBL-8M5

### 10GbE CX4 Cables

**Active CX4 Cables can be used for distances up to 100 meters.** The embedded switch modules do not support active CX4 cables.

**Passive CX4 cables can be used for distances up to 15 meters.** All of BLADE's CX4-capable switches can use passive 10GbE CX4 cables from Molex, Gore or Amphenol. Please note that these are different than Infiniband CX4 cables which are NOT SUPPORTED. Some of the available cable assemblies are listed below:

Cable Type and Distance	Part Number
10GbE CX4 Cable (Gore) – 15m	Gore P/N IBN6800-15
10GbE CX4 Cable (Gore) - 10m	Gore P/N IBN6800-10
10GbE CX4 Cable (Gore) - 5m	Gore P/N IBN6800-5
10GbE CX4 Cable (Gore) - 3m	Gore P/N IBN6800-3
10GbE CX4 Cable (Gore) - 1m	Gore P/N IBN6800-1
10GbE CX4 Cable (Gore) - .5m	Gore P/N IBN6800-.5
10GbE CX4 Cable (Amphenol) - 15m	AIPC P/N 562340015
10GbE CX4 Cable (Amphenol) - 10m	AIPC P/N 562340010
10GbE CX4 Cable (Amphenol) - 5m	AIPC P/N 562330011
10GbE CX4 Cable (Amphenol) - 3m	AIPC P/N 562330007
10GbE CX4 Cable (Amphenol) - 1m	AIPC P/N 562330003
10GbE CX4 Cable (Amphenol) - .5m	AIPC P/N 562330001

### 10GBase-SR Fiber Optic Cables

**10GBase-SR Transceivers can utilize a variety of multimode (MMF) fiber cables** with LC connectors at the transceiver side. The maximum distance is determined by the type of fiber used.

- 62.5 micron 160MHz\*km for distances up to 26 meters
- 62.5 micron 200MHz\*km for distances up to 33 meters
- 50 micron 400MHz\*km for distances up to 66 meters
- 50 micron 500MHz\*km for distances up to 82 meters
- 50 micron 2000MHz\*km for distances up to 300 meters

## Serial Cables

Cable	Used on these switch models	Cable Part Number
Standard DB9 to DB9 null modem cable	<ul style="list-style-type: none"><li>▪ HP GbE2c Ethernet Blade Switch for HP BladeSystem</li><li>▪ HP GbE2c Layer 2/3 Ethernet Blade Switch for HP BladeSystem</li><li>▪ HP 1/10Gb BL-c Switch for HP BladeSystem</li><li>▪ HP 10Gb BL-c Switch for HP BladeSystem</li></ul>	n/a

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