

BLADE Network Technologies' Gigabit and 10GbE RackSwitches 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.

Note: All BLADE RackSwitch products require use of BLADE Network Technologies-branded transceivers.

BLADE RackSwitch G8000 1/10GbE Aggregation Switch

1 Gigabit SFP Transceivers

Transceiver	Part Number
BLADE 1000Base-T SFP	BN-CKM-S-T
BLADE 1000BASE-SX SFP	BN-CKM-S-SX
BLADE 1000BASE-LX SFP	BN-CKM-S-LX

10 Gigabit SFP+ Transceivers

Transceiver	Part Number
BLADE 10GBase-SR SFP+	BN-CKM-SP-SR
BLADE 10GBase-LR SFP+	BN-CKM-SP-LR

CX4 Uplink Module accepts Passive or Active CX4 Cables

(See Appendix A - Cables)

SFP+ Uplink Module accepts SFP+ Copper Direct Attach Cables

(see Appendix A - Cables)

Note: If you have an XFP port on your storage device or networking switch, you will need to use an approved 10GBase-SR XFP transceiver on that device. Then you will use BNT 10Gbase-SR SFP+ transceiver (BN-CKM-SP-SR) on the RackSwitch G8000. You can then connect the two devices with an LC-to-LC multimode fiber patch cable.

Serial Cable

Cable	Part Number
BLADE DB9 to mini-USB cable	BN-SB-SRL-CBL

BLADE RackSwitch G8124 / G8124-E 10GbE SFP+ Switch

1 Gigabit SFP Transceivers

Transceiver	Part Number
1000Base-T SFP	BN-CKM-S-T
BLADE 1000Base-SX SFP	BN-CKM-S-SX
BLADE 1000BASE-LX SFP	BN-CKM-S-LX

10 Gigabit SFP+ Transceivers

Transceiver	Part Number
BLADE 10GBase-SR SFP+	BN-CKM-SP-SR
BLADE 10GBase-LR SFP+	BN-CKM-SP-LR

Serial Cable

Cable	Part Number
BLADE DB9 to mini-USB cable	BN-SB-SRL-CBL

BLADE RackSwitch G8100 10GbE Switch 10 Gigabit SFP+ Transceivers

Transceiver	Part Number
BLADE 10GBase-SR SFP+	BN-CKM-SP-SR

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 and RackSwitches:

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. BLADE's RackSwitch products can use active CX4 cables and have been tested with Emcore's powered CX4 cables:

Distance	Emcore Part Number
10M	892256
50M	892260
100M	892261

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
DB9 to mini-USB RS232 cable	<ul style="list-style-type: none"> ▪ BLADE RackSwitch G8000 ▪ BLADE RackSwitch G8124 	BN-SB-SRL-CBL
DB9 to USB-mini-B-RS232	<ul style="list-style-type: none"> ▪ BLADE RackSwitch G8124-E 	
Standard DB9 to DB9 null modem cable	<ul style="list-style-type: none"> ▪ BLADE RackSwitch G8100 	n/a

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