# Recommended Transceivers and Cables

## For 10G Ethernet Switches

BLADE NETWORK TECHNOLOGIES

The Trusted Name in Blade Server Networking

*Blade Network Technologies' Ethernet Switches use many different kinds of ports and transceivers. There is a mix of SFP, SFP+, XFP and CX4 ports for Gigabit and 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.*

# IBM BladeCenter

## IBM BladeCenter Nortel 10Gb Uplink Switch Module (32R1783)

### MSA compliant XFP Transceivers

- IBM 10GBase-SR FP part number 32R1877
- BLADE 10GBase-SR XFP part number BN-CKM-SR
- JDSU 10Gbase-LR XFP part number JXP-01LWAA1

**Note: CX4 Ports can use passive 10GbE CX4 cables only (see 10GbE CX4 Cables)**

## IBM BladeCenter Nortel 1:10Gb Uplink Switch Module (44W4404)

### MSA compliant 10 Gigabit SFP+ Transceivers

- IBM 10GBase-SFP+ SR part number 44W4408

### IBM BladeCenter Nortel 10Gb Ethernet Switch Module (39Y9267)

### MSA compliant XFP Transceivers

- IBM 10GBase-SR XFP part number 32R1877
- BLADE 10GBase-SR XFP part number BN-CKM-SR
- BLADE 10GBase-CX4 XFP part number BN-CKM-X-CX4
- JDSU 10Gbase-LR XFP part number JXP-01LWAA1

**Note: CX4 Ports can use passive 10GbE CX4 cables only (see 10GbE CX4 Cables)**

# HP BladeSystem

## HP 10Gb Ethernet BL-c Switch

### MSA compliant XFP Transceivers

- HP 10GBase-SR XFP part number 443756-B21
- HP 10GBase-LR XFP part number 443757-B21
- BLADE 10GBase-CX4 XFP part number BN-CKM-X-CX4

**Note: CX4 Ports can use passive 10GbE CX4 cables only (see 10GbE CX4 Cables)**

## HP 1:10Gb Ethernet BL-c Switch

### MSA compliant 10 Gigabit SFP+ Transceivers

- HP 10GBase-SFP+ SR part number 443756-B21
- HP 10GBase-LR XFP part number 443757-B21
- BLADE 10GBase-CX4 XFP part number BN-CKM-X-CX4

**Note: CX4 Ports can use passive 10GbE CX4 cables only (see 10GbE CX4 Cables)**

# BLADE RackSwitch

## BLADE RackSwitch G8000 1/10GbE Switch

### 1 Gigabit SFP Transceivers

- BLADE 1000Base-T SFP part number BN-CKM-S-T
- BLADE 1000Base-SX SFP part number BN-CKM-S-SX
- BLADE 1000Base-LX SFP part number BN-CKM-S-LX

### 10 Gigabit SFP+ Transceivers

- BLADE 10GBase-SR SFP+ part number BN-CKM-SP-SR

### Passive or Active CX4 Cables (see 10GbE CX4 Cables)

***Serial Cable***

- BLADE DB9 to mini-USB cable part number BN-SB-SRL-CBL

# BLADE RackSwitch G8100 10GbE Switch

### 10 Gigabit SFP+ Transceivers

- BLADE 10GBase-SR SFP+ part number BN-CKM-SP-SR

### Passive or Active CX4 Cables (see 10GbE CX4 Cables)

### Serial Cable

- Standard DB9 Null-modem cable

# Cables

## 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. Only BLADE's Rackswitch products can use active CX4 cables and have been tested with Intel's powered CX4 cables:**
  - 10M Intel P/N: ALLT10DCPA
  - 50M Intel P/N: ALLT50DCPA
  - 100M Intel P/N: ALLTAADCPA
- **Passive CX4 cables can be used for distances up to 15 meters. All of BLADE's switches can use 10GbE CX4 cables from Molex, Gore or Amphenol. We recommend ww.AVNET.com for cables. Some of the available cable assemblies:**

| | |
|---|---|
| 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



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