



# Brocade Fabric OS 7.x Compatibility Matrix

November 2016

This document summarizes equipment known to be compatible with the Brocade® Fabric OS (FOS) 7.x family. Products named in the compatibility tables reflect equipment tested at Brocade or tested externally.

NOTE: This information is constantly being updated. For the latest compatibility information, visit vendor Web sites, some which are listed on page 5.

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# Chapter 1: Introduction

## OVERVIEW

Brocade and its OEM and Developer Partners have tested a wide variety of devices for compatibility with the Brocade FOS 7.0 product family. You can find a current list of Brocade products and data sheets at: <http://www.brocade.com/en/products-services/storage-networking/fibre-channel.html>

These support and compatibility guidelines were generated for your reference based on product testing and operation of products in customer installations. The devices listed are deemed compatible with Brocade products in a Brocade infrastructure. Brocade cannot provide direct support for the end nodes or applications listed in this document, but Brocade is committed to ensuring that the Brocade infrastructure is operating correctly while interoperating with these components. The components listed in this document are not guaranteed to work in all configurations, but Brocade is committed to helping customers with a valid Brocade Support Contract to resolve any compatibility issues.

**NOTE:** If an item is not listed—it does not mean that it is incompatible. It may simply mean that it has not been tested.

In this document, the term “compatibility” means having the ability to connect to the Brocade product, to register with the name server (if appropriate), and to support a moderate level of I/O. Users of this list should plan on validating their specific configuration with a level of testing appropriate to their application.

Brocade expects suppliers of complete solutions (OEM or Integration Partners) to provide details on configurations they have certified. This document provides the basis for integrators to assemble working systems that they can support and certify. However, Brocade cannot certify that any components on this list, when attached to any other component via our switching products, will operate with no issues. Brocade is committed to actively testing and correcting any issues with its product and to work with Partners to help resolve compatibility issues as they are reported.

This document provides an overview of supported devices within Brocade data center infrastructure. Guidance is provided on products that are known to integrate with a Brocade infrastructure. To ensure proper integration, users should refer questions on configuration details to their OEM or integrator supporting these devices. Brocade expects that the solution provider will supply detailed guidelines on the correct firmware, driver, and configuration settings required to ensure that specific needs are met.

By the date of publication of this document, vendors may offer more recent software support for their products. Users of this document should refer questions on end-to-end interoperability to their OEM or Integration Partner. Your support provider can assist with the proper configuration and tuning of your end-to-end solution. The products listed in this document are considered compatible in a Brocade infrastructure.

In addition to the product testing performed by Brocade, Brocade OEM and Development Partners also have extensive testing programs. Each of these partners might maintain their own compatibility, interoperability, or support guidelines and can provide detailed information on the configurations they support. Products and product variants not specifically listed in this document might be compatible and supported in a production Storage Area Network (SAN) infrastructure. Your OEM or Integration Partner is the first line for questions on supported devices, fabric configuration, firmware or Fabric OS<sup>®</sup> selection, and settings for end-to-end solution deployment.

## RELATED WEB SITES

Many Brocade partners provide detailed support information online, included but are not limited to:

- EMC: <http://www.emc.com/interoperability/index.jsp>
- Fujitsu: <http://ts.fujitsu.com/products/storage/matrixEP.html>
- HDS: <http://www.hds.com/products/interoperability/>
- HP: <http://h18006.www1.hp.com/products/storageworks/san/documentation.html>
- IBM: <http://www-1.ibm.com/servers/storage/support/san/index.html>
- NetApp: <http://support.netapp.com/matrix/mtx/login.do>

## SENDING FEEDBACK

Send questions, corrections, or suggestion for improving this document to: [DL-GRP-MKTG-compmatrix@brocade.com](mailto:DL-GRP-MKTG-compmatrix@brocade.com)

## Chapter 2: Brocade FOS 7.x Platforms

To find out more about Brocade FOS 7.x platforms and to view data sheets for these products, visit:  
<http://www.brocade.com/en/products-services/storage-networking/fibre-channel.html>

**NOTE:** All Brocade FOS 7.x platforms in the table support hot code activation unless otherwise noted.

MODEL
Brocade 300 Switch
Brocade 5100/VA-40FC Switch
Brocade 5300 Switch
Brocade 6505 Switch
Brocade 6510 Switch
Brocade 6520 Switch
Brocade 7800 Extension Switch
Brocade 7840 Extension Switch
Brocade 8510-8 and 8510-4 Backbones Port blades: FC16-32/48/64, FC8-32E/48E/64 Intelligent blades: FS8-18, FX8-24
Brocade DCX and DCX-4S Backbones Port blades: FC8-16/32/48/64 Intelligent blades: FC10-6, FR4-18i, FA4-18, FS8-18, FX8-24
Brocade 54xx and 65xx embedded 8 Gbps and 16 Gbps switches for blade servers

## Chapter 3: Server Adapters by Vendor

**NOTE:** This document lists compatibility with Brocade switches running FOS 7.x.

### ATTO

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
ATTO	FC-44ES, FC-82EN	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	FC-42ES, FC82-EN	2, 4, 8	
	Celerity 8G FC81EN, 8G FC82EN, 8G FC84EN, 16G FC161E, 16G FC162E, 16G FC164E Thunderlink FC1082	2, 4, 8, 16	

### Bull

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Bull	LP1105-BU	2, 4	54XX

### Cisco

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Cisco	N2XX-AEPCI05	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	N2XX-AEPC103	2, 4	

**Dell**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Dell	331-0237, 331-0238	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe16000, LPe16002	4, 8, 16	
	LPe1200-E, LPe12002-E, LPe1205-M	2, 4, 8	
	LPe11002-E, LPe1150-E, LPe1105	2, 4	
	LPe1105-M, LP10000	2	
	331-0238 (BR-825)	4, 8	
	QLE2660 (0187V/TC40H), QLE2662 (9J1RG/7JKH4)	4, 8, 16	
	QLE2560 (F641C), QLE2562 (H144C)	2, 4, 8	
	QLE2462	2, 4	
	LPe1205-M	2, 4, 8	
	LPm16002B-D	4, 8, 16	
	LPe1105	2, 4	
	LPe1105-M	2	
	QME2662 (4GDP5)	4, 8, 16	
	QME2572 (R112D)	2, 4, 8	

\*Requires FOS 7.2.0+ code level

**EMC**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
EMC	EM-1860-1F00, EM-1860-1P00, EM-1860-2F00, EM-1860-2P00	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	EM-815-0010, EM-825-0010	2, 4, 8	
	EM-415-0010, EM-425-0010	2, 4	
	LPe16000B-E, LPe16002B-E, LPe16000-E, LPe16002-E	4, 8, 16	
	LPe12000-E	2, 4, 8	



Vendor	Product Name	Data Rate (Gbps)	Brocade Models
EMC (cont.)	LPe1250-E	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe12002-E	2, 4, 8	
	LPe11000-E, LPe11002-E	2, 4	
	LPe1150-E	2, 4	
	LPe111-E	2, 4	
	LP11000-E, LP11002-E	2, 4	
	LP1150-E	2, 4	
	QLE2670-E-SP, QLE2672-E-SP	4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	QLE2560-E-SP, QLE2562-E-SP	2, 4, 8	
	QLE2460-E-SP, QLE2462-E-SP	2, 4	
	QLA2460-E-SP, QLA2462-E-SP	2, 4	
	QLA2460-E-SP, QLA2462-E-SP	2, 4	

### Broadcom (Emulex)

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Broadcom (Emulex)	LPe31000, LPe32000, LPe31002, LPe32002	4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe16000B, LPe16002B, LPe16004	4, 8, 16	
	LPe16000, LPe16002	4, 8, 16	
	LPe15004	2, 4, 8	
	LPe12000	2, 4, 8	
	LPe1250	2, 4, 8	
	LPe12002, LPe12002-X8	2, 4, 8	
	LPe12004	2, 4, 8	
	LPe11000, LPe11002, LPe11004	2, 4	
	LPe1150	2, 4	
	LPe111	2, 4	
	LP11000, LP11002	2, 4	
	LP1150	2, 4	

## Fujitsu

Vendor	Product Name	Data Rate (Gbps)	Brocade Models	
Fujitsu	PW008FC3	2	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8	
	PW008FC2	2		
	SEOX7F11F/S	2, 4		
	LPe1250-F8-FJ	2, 4, 8		
	LPe1250-F8-F, LPe1250L-F8-F	2, 4, 8		
	LPe12002-M8-FJ	2, 4, 8		
	LPe12002-M8-F, LPe12002L-M8-F	2, 4, 8		
	LPe1150-F4-FJ	2, 4		
	LPe1150-F4-F, LPe1150L-F4-F	2, 4	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8	
	LPe11002-M4-FJ	2, 4		
	LPe11002L-M4-F, LPe110002-M4-F	2, 4		
	LPe11000-M4-FJ	2, 4		
	LPe111-F, LPe111L-F	2, 4		
	BX600-FC42E	2, 4		
	LP11002-M4-FJ	2, 4		
	LP11000-M4-FJ	2, 4		
	MC-FC82E	2, 4, 8		5450, 6545*
	MC-FC162E	4, 8, 16		

\*Requires FOS 7.1.0\_fuj code level

## Hitachi

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Hitachi	LPe12002	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe1205-HI	2, 4, 8	
	LPe1250	2, 4, 8	
	LPe111-E	2, 4	
	LP11002	2, 4	
	LP1150	2, 4	
	HFCE0804-M	2, 4, 8	5460
	LPe1205A-HI	2, 4, 8	

## Hitachi Data Systems

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Hitachi Data Systems	HD-1860-1F00, HD-1860-1C00, HD-1860-2F00, HD-1860-2C00	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe16002	4, 8, 16	
	QLE2672	4, 8, 16	
	QLA8142	10	
	HD-815-0010.P, HD-825-0010.P	2, 4, 8	
	HFC0402-E	2, 4	
	HFCE0802	2, 4, 8	
	LPe12000-M8-H, LPe12002-M8-H	2, 4, 8	
	LPe11000-M4-H, LPe11002-M4-H	2, 4	
	LPe1150-F4-H	2, 4	
	LPe111-H	2, 4	
	LP11000-M4-H, LP11002-M4-H	2, 4	

## HP

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
HP	QR558A, QR559A	4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe16000B (C8R38A), LPe16002B (C8R39A)	4, 8, 16	
	QMH2672 (710608-B21)	4, 8, 16	
	AP769A, AP770A	2, 4, 8	
	AP767A, AP768A	2, 4	
	AJ762A*/81E, AJ762B*/82E, AH402A/NA	2, 4, 8	
	AJ763A/B	2, 4, 8	
	AH400A	2, 4, 8	
	AH402A	2, 4, 8	
	AH403A	2, 4, 8	
	AT094A	2, 4, 8	
	AD193A	2, 4	

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
HP (cont.)	AD299A, AD355A, AD221A, AD222A, AD393A	2, 4	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	A8003A, A8003B*/FC2242SR	2, 4	
	A8002A A8002B*/FC2142SR	2, 4	
	403621-B21	2, 4	
	AB379B	2,4	
	AE311A, AE312A	2, 4	
	AD300A	2, 4	
	AD400A	2, 4, 8	
	AK344A	2, 4, 8	
	AH764A, AH401A	2, 4, 8	
	456972-B21	2, 4, 8	
	659818-B21	2, 4, 8	
	403621-B21	2, 4	
	BR-804	2, 4, 8	
	QMH2562, QMH2572	2, 4, 8	
	QMH2462	2, 4	
	QMH2572	2, 4, 8	
	QMH2672	4, 8, 16	
	LPe1205	2, 4, 8	
	LPe1205A, LPe1205A-HP	2, 4, 8	
	LPe1105-HP	2, 4	
	LPe1605 (718203- B21)	4, 8, 16	
	CN1000E	10GE	DCX-4S, DCX, DCX 8510-8
	CN1000Q	10GE	
	554FLR	10GE	
	526FLR	10GE	

\*Requires FOS7.2.1+ code level

## Huawei

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Huawei	LPe12000, LPe 12002	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe1205	2, 4, 8	5430*, 5431**, 5432***
	MZ910	2, 4, 8	
	MZ220, MXEH, MXEA	4, 8, 16	6543****

\*Requires FOS7.1.0+ code level

\*\*Requires FOS7.2.0+ code level

\*\*\*Requires FOS7.2.1+ code level

\*\*\*\* Requires FOS7.4.1+ code level

## IBM

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
IBM	81Y1668, 81Y1675	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	81Y1655, 81Y1662	4,8,16	
	00Y3337 00Y3341	4,8,16	
	46M6049, 46M6050	2, 4, 8	
	59Y1987, 59Y1993	2, 4	
	81Y1655, 81Y1662	4, 8, 16	
	LPe16000, LPe16002	4, 8, 16	
	42D0485, 42D0494	2, 4, 8	
	LPe12004-IBM	2, 4, 8	
	42C2069, 42C2071	2, 4	
	39M5894, 39M5895, 39R6525, 39R6527	2, 4	
	42D0501, 42D0510	2, 4, 8	
	FC EN0Y	2, 4, 8	
	5735/577D	2, 4, 8	
	5749	2, 4, 8	
	5774	2, 4	
5759	2, 4		
5760	2, 4		

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
IBM (cont.)	46M6140	2, 4, 8	5470
	FC3052	2, 4, 8	
	41Y8527	2, 4	
	46M6065	2, 4, 8	
	44X1945	2, 4, 8	
	44X1940	2, 4, 8	
	44X1945	2, 4, 8	
	95Y2375	2, 4, 8	6547*
	95Y2386	4, 8, 16	
	69Y1938	2, 4, 8	
	69Y1942	4, 8, 16	
	88Y6370	4, 8, 16	

\*Requires FOS7.2.0+ code level

## Lenovo

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Lenovo	LPe16004B, LPe16002B	4, 8, 16	300, 6505, 6510
	42D0485, 42D0494	2, 4, 8	
	46M6049, 46M6050	2, 4, 8	
	42D0501, 42D0510	2, 4, 8	
	69Y1942	4, 8, 16	
	00Y3341	4, 8, 16	
	00Y3337	4, 8, 16	
	81Y1655, 81Y1662	4, 8, 16	
	81Y1668, 81Y1675	2, 4, 8, 16	
	95Y2375	2, 4, 8	
	69Y1938	2,4,8	
	95Y2386, 95Y2391	4, 8, 16	
	88Y6370	4, 8, 16	
	95Y23279	4, 8, 16	
	69Y1942	4, 8, 16	

**NEC**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
NEC	LPe12000-M8 LPe12002-M8	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LPe11002-M4	2, 4	
	LPe1150-F4-N	2, 4	
	LP11002-M4	2, 4	
	LPe1205-N	2, 4, 8	5480

**NetApp**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
NetApp	LPe16000 Lpe16002	4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	QLE2670 QLE2672	4, 8, 16	
	LPe12000 (X1096A-R6), LPe12002 (X1097A-R6)	2, 4, 8	
	LPe11000 (X1091A-R6), LPe11002 (X1092A-R6), LPe1150 (X1093A-R6), LPe11000 (X1086A-R6), LPe11000 (X1087A-R6), LP1150	2, 4	
	X1088A-R6, X1089A-R6	2, 4	
	X1094A-R6, X1095A-R6	2, 4, 8	

**Oracle**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Oracle	SG-XPCIE1FC-EM8-N, SG-XPCIE2FC-EM8-N	2, 4, 8	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	SG-XPCIE1FC-EM4-N, SG-XPCIE2FC-EM4-N	2, 4	
	SG-XPCIE2FC-EM4-N	2, 4	
	SG-XPCIE2FC-EB4-N, SG-XPCIE2FC-EB4-N	2, 4	
	SG-XPCI1FC-EM4-Z-N, SG-XPCI2FC-EM4-Z-N	2, 4	

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Oracle (cont.)	SG-XPCI1FC-QF4-N, SG-XPCI2FC-QF4-N, SG-XPCIE1FC-QF4-N, SG-XPCIE2FC-QF4-N	2, 4	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	SG-XPCIE1FC-QF8-N, SG-XPCIE2FC-QF8-N	2, 4, 8	

## QLogic

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
QLogic	QLE2764-SR-CK, QLE2742-SR-CK QLE2740-SR-CK	4, 8, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	QLE2690-SR-CK, QLE2692-SR-CK, QLE2694-SR-CK, QLE2694U-SR-CK, QLE2694L-SR-CK	4, 8, 16	
	QLE2670-CK QLE2672-CK	4, 8, 16	
	QLE2560 QLE2562 QLE2564	2, 4, 8	
	QLE2460 QLE2462 QLE2464	2, 4	
	QLA2340	2	
	QLA2460 QLA2462	2, 4	

## QLogic (former Brocade product line)

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
QLogic (cont.)	1860	4, 8, 10, 16	300, 5100, VA-40FC, 5300, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	825, 815	2, 4, 8	
	425, 415	2, 4	
	1867	2, 4, 8, 16	65XX
	804	2, 4, 8	54XX



## Chapter 4: SAN Switches by Vendor

**NOTE:** This document lists compatibility with Brocade switches running FOS 7.x. As the undisputed leader of data center SAN networks, Brocade provides interoperability of Brocade Fibre Channel switches using open industry standards. Brocade supports Brocade switches connected to third-party switches utilizing N Port ID Virtualization (NPIV) technology.

**NOTE:** Cisco switches must be configured to Cisco N-Port Virtualizer (NPV) mode to connect to Brocade switches. Cisco NP ports connect to Brocade F\_Ports. E\_Port connectivity is not supported.

**NOTE:** HP Virtual Connect switches connect Virtual Connect N ports connect to Brocade F\_Ports.

**NOTE:** QLogic switches must be configured to Transparent Router mode to connect to Brocade switches. QLogic N ports connect to Brocade F\_Ports.

### Cisco

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
Cisco	MDS 9396S Multilayer Fabric Switch	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	MDS 9148S Multilayer Fabric Switch	2, 4, 8, 16	
	MDS 9250i Multilayer Fabric Switch	2, 4, 8, 16	
	MDS 9148 Multilayer Fabric Switch	2, 4, 8	
	MDS 9124 Multilayer Fabric Switch	2, 4	
	MDS 9124e Fabric Switch for HP c-Class BladeSystem	2, 4	
	MDS 9222i Multiservice Modular Switch	2, 4, 8	
	MDS 8G Fibre Channel Blade Switch for HP c-Class BladeSystem	2, 4, 8	
	UCS 6332-16UP Fabric Interconnect	2, 4, 8, 16	
	UCS 6248UP Fabric Interconnect	2, 4, 8	
	UCS 6296UP Fabric Interconnect	2, 4, 8	
	UCS 6140XP	2, 4, 8	
	UCS 6120XP	2, 4, 8	
	Nexus 5596T Switch	2, 4, 8	
	Nexus 5596UP Switch	2, 4, 8	
	Nexus 5548P Switch	2, 4, 8	
Nexus 5548UP Switch	2, 4, 8		
Nexus 5020 Switch	2, 4, 8		
Nexus 5010 Switch	2, 4, 8		

**HP**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
HP	Virtual Connect 8Gb 20-Port Fibre Channel Module for c-Class BladeSystem	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Virtual Connect 8Gb 24-Port Fibre Channel Module for c-Class BladeSystem	2, 4, 8	

**QLogic**

Vendor	Product Name	Data Rate (Gbps)	Brocade Models
QLogic	9000 Stackable Chassis Switch	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	5800V/5802V Fibre Channel Stackable Switch	2, 4	
	3810 Fibre Channel Switch	2, 4, 8	
	SANbox Express 1400	2, 4, 8	

## Chapter 5: Storage by Vendor

**NOTE:** For Brocade Encryption Switch and FS8-18 Encryption Blade interoperability support information, please refer to the Encryption Interoperability Matrix for the specific FOS release installed on your Brocade Encryption device.

### Dell

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Dell	Compellent Series 30	5.2.3	4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Compellent SC8000	V6.3.0	4, 8, 16	
	FS8600		2, 4, 8	300, 5100

### EMC

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
EMC	DMX3	5772.100.91	2, 4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	DMX-3	5772.1.104	4	
	DMX800	5670.99	2	
	CS500	2.26.500.5.010	2	
	CX3-20	3.26.020.5.31	1, 2, 4	
	CX3-40	3.26.020.5.31	1, 2, 4, 8	
	CX4-120	4.30.000.5.517	4, 8	
	CX4-240	4.X		
	CX4-480	4.30.000.5.517	4, 8	
	DL4100	2.1	4	
	VMax-1, VMax-2	5875.135.91		
	VMax	5876.268.174	8, 16	
	VNX-5500	5.32.000.5.216	8	
	VNX-5300	5.32.000.5.216	8	
	RecoverPoint Appliance	3.3 e.88	8	
	VPLEX	4.X 5.0.1.01.00.05	8	
	Data Domain DD610, DD670	4.X		

## Fujitsu

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Fujitsu	Eternus 4000	V10L80-0000	2,4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Eternus DX410S2	V20L71-0000 V10L60-0000	8	
	Eternus DX8100S2	V20L71-0000	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Eternus 6000	V31L10-0000	2	
	Eternus DX80	V10L60-0000	8	
	Eternus DX90S2 Eternus DX400S2	V10L16-0000		6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Eternus DX440S2 Eternus DX8000S2			
	Eternus DX8700S2			
Eternus DX100 S3 Eternus DX200 S3 Eternus DX500 S3 Eternus DX600 S3	V10L20-4000	4,8,16		

## HP

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
HP	HSV210-B	11300000	2, 4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	P6300/6500	11300000	8	
	HSV450 (8400)	11300000	4	
	HSV300-S (4400-S)	11300000	2, 4	
	HSV300 (4400)	11300000	2, 4	
	HSV340	11300000	2, 4	
	MSA2012fc	J202P01	2, 4	
	MSA2312fc	M113R11	4	
	P9500	70-06-20-00/00	8	
	XP7	80-02-02-00/00	8, 16	
	P10000	3.2.1 (MU2), 3.1.3 MU1	4	
	XP12000	50-09-98-00/02	2, 4	
	XP24000	60-08-51-00/0060-08-43-00/00	4, 8	
	F200/F400	3.1.3 MU1	4	
	P2000 G3	TS251P006	8	

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
HP (cont.)	P4330 FC	11.5.00, 10.5.00.0160.0	8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	MSA2040	GL200R007	16	

### Hitachi Data Systems

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Hitachi Data Systems	AMS500	0786/G-M	4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	AMS2300	08C3/U/V	8	
	VSP-G	80-02-02-00/00	8	
	USP-V	60-08-45-00/00	4, 8	
	VSP	70-06-23-00/02	2, 4, 8	
	DF800	08C3/U/V	8	
	HUS	0915/C-H		
	HUS 150	0977/A-P	2, 4, 8	
	HUS-VM	73-03-34-00/00	2, 4, 8	
	HM700	73-01-02-00/00	8	

### Huawei Storage

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Huawei Storage	OceanStor S2200T/S2600T/S5500T/S5600T/S5800T/S6800T Storage Array	V1R5	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840,DCX-4S, DCX,6505, 6510,DCX 8510-4, DCX 8510-8
	OceanStor Dorado5100/Dorado2100 G2 Storage Array	V1R1	2, 4, 8	
	OceanStor VIS6000 Storage Array	V1R2	2, 4, 8	
	OceanStor VIS6000T Storage Array	V2R3	2, 4, 8	
	OceanStor HVS85T/HVS88T Storage Array	V1R1	2, 4, 8	
	OceanStor 18500/18800/18800F Storage Array	V1R1	2, 4, 8	
	OceanStor S2600T/S5500T/S5600T/S5800T/S6800T Storage Array	V2R1	2, 4, 8	

Huawei Storage (cont.)	OceanStor 5300 V3/5500 V3/5600 V3/5800 V3/6800 V3 Storage Array	V3R1, V3R2	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 7800, DCX-4S, DCX, 6505, 6510, 6520, 6543, DCX 8510-4, DCX 8510-8
	OceanStor V3 Series Storage (OceanStor 5300 V3/5500 V3/5600 V3/5800 V3/6800 V3/18500 V3/18800 V3)	V300R003	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 7800, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8

**IBM**

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
IBM	ESS800	2.4.4.112		300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	DS8870	7.1.x,7.2.x, 7.3.x, 7.4.x, 7.5.x, 7.6.x, 7.7.x	2, 4, 8, 16	
	DS8880	R8.0, R8.1	2, 4, 8, 16	
	DS8100	5.4.36.91	4	
	DS8000	5.4.33.44		
	DS4800	6.60.17.00		
	DS4700	6.30.34.00 6.15,15,00		
	DS4300	5.33.5.0		
	DS3400	07.35.41.00		
	DS5100	7.83.22.00	4	
	DS5020	7.70.38.00		
	DS6800	5.2.2.472		
	FlashSystem A9000	12.0.x	16	
	FlashSystem A9000R	12.0.x	16	
	FlashSystem V9000	7.4.x, 7.5.x, 7.6.x, 7.7.x	4,8,16	
	FlashSystem V840	7.3.x, 7.4.x, 7.5.x, 7.6.x, 7.7.x	8, 16	
	FlashSystem 900	1.2.x.x, 1.3.x.x, 1.4.x.x	8, 16	
	FlashSystem 810	05.06.xx	8	
	FlashSystem 820	06.03.xx	8	
	FlashSystem 840	1.1.2.7	4, 8, 16	
	FlashSystem 710	05.06.xx	8	
	FlashSystem 720	06.03.xx	8	
	V5010	V7.6.1.x, 7.7.x	16	
	V5020	V7.6.1.x, 7.7.x	16	
	V5030	V7.6.1.x, 7.7.x	16	
	SVC 2G	4.3.1.10		
	SVC 4G	6.4.1.4	4	
	SVC 8G	7.4.0.2	8	
2076-124	6.4.1.4	8		

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
IBM (cont.)	V7000	7.2.0.4	8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	XIV	11.5.0.a	8	

## INFINIDAT

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
INFINIDAT	InfiniBox	2.2.0.28	4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8

## Lenovo

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Lenovo	S2200	GL221R006	8	300, 6505, 6510, 6547
	S3200	GL221R006	8, 16	
	V3700 v2	7.6.1.4	16	
	V3700 v2 XP	7.6.1.4	16	
	V5030	7.6.1.4	16	

## NetApp

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
NetApp	V3020/V3050 V3070	ONTAP 8.0.x ONTAP 8.1.x	2, 4 2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	V31x0	ONTAP 8.1.x ONTAP 8.2.x	2, 4, 8	
	V32x0	ONTAP 8.2.x ONTAP 8.3.x	4, 8, 16	
	V60x0	ONTAP 8.2.x ONTAP 8.3.x	2, 4, 8	
	V61x0	ONTAP 8.2.x ONTAP 8.3.x	4, 8, 16	
	FAS22x0	ONTAP 8.0.x ONTAP 8.1.x ONTAP 8.2.x	2,4, 8	
	FAS3040	ONTAP 7.3.7		
	FAS31x0	ONTAP 8.0.x ONTAP 8.1.x ONTAP 8.2.x	2, 4, 8	

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
NetApp (cont.)	FAS32x0	ONTAP 8.2.x ONTAP 8.3.x	4, 8, 16	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	FAS60x0	ONTAP 8.2.x ONTAP 8.3.x	2, 4, 8	
	FAS62x0	ONTAP 8.2.x ONTAP 8.3.x	4, 8, 16	

### Nimble Storage

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Nimble Storage	CS-Series	2.3.x	4, 8, 16	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8

### Oracle

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Oracle	AXIOM R5 3	2070-00001-050300-004300	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	6140	6.10.09.16	4	
	6850	3.10.09.16	2, 4	

### Pure Storage

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Pure Storage	FlashArray 4xx Series	Purity 3.4.11, 4.1.3	2, 4, 8, 16	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	FlashArray //M	Purity 4.5.5	8, 16	

### Quantum

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Quantum	DLT-S4	V42	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX
	DXi8500 Series	2.3	2, 4, 8	
	DXi6800 Series	2.3	2, 4, 8	
	DXi6700 Series	2,3	2, 4, 8	
	DXi7500	1.5	2, 4, 8	



Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Quantum (cont.)	Scalar i6000	670Q	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Scalar i2000 (ADIC)	653Q	2, 4, 8	
	Scalar i500 (ADIC)	640G	2, 4, 8	
	Scalar i80	160G	2, 4, 8	
	Scalar i40	160G	2, 4, 8	

### SolidFire

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
SolidFire	SF FibreChannel Array	Element 8.1.1.4	4, 8, 16	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8

### Tegile

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Tegile	HA2xxx Intelliflash Arrays	2.1.3.4(150311)-368	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	T3xxx Intelliflash Arrays	3.0.1.150929(HF1)	4, 8	

### Violin Memory

Vendor	Product Name	Firmware/Code Version	Data Rate (Gbps)	Brocade Models
Violin Memory	Violin 3202	G5.2.0	2, 4, 8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	Violin 6xxx	A6.3.x/G5.6.x	2, 4, 8	

## Chapter 6: Tape by Vendor

**NOTE:** For Brocade Encryption Switch and FS8-18 Encryption Blade interoperability support information, please refer to the Encryption Interoperability Matrix for the specific FOS release installed on your Brocade Encryption device.

### HP

Vendor	Product Name	Firmware/ Code Version	Data Rate (Gbps)	Brocade Models
HP	LTO 6	J39S	8	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	LTO 5	I67S	8	
	LTO 4	85AW	4	
	LTO 3	11.908	2	
	MSL4048	8.1		

### IBM

Vendor	Product Name	Firmware/ Code Version	Data Rate (Gbps)	Brocade Models
IBM	3592	H82672	4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	3584 Tape Library	B570 /C7R2		
	LTO Gen III	69U2	4	
	LTO 3	81W0	2	
	LTO6	D8E6	8	
	LTO 5	D2AC		
	LTO Gen 5	A3K7	8	
	LTO 4	7BGt2		

**Oracle (Sun)**

Vendor	Product Name	Firmware/ Code Version	Data Rate (Gbps)	Brocade Models
Oracle (Sun)	T9840-C	1.44.509	4	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8
	9840-D	1.45.703-5.20	4	
	SL500	V 1493		
	T10000-A	1.50.103	2, 4	
	T10000-B	1.50.203	2, 4	
	T10000-C	1.61.301	2, 4	
	T10000-D	4.08.105	4, 8, 16	
	SL3000	4.31		
	L700	3.18.02		
	SL150	2.39		
	VSM5	D02.17.14.00 D02.16.00.00 D02.15.20.00	2, 4	
	IBM LT06	E4J0	8	
	IBM LT05	E4J0	8	
	IBM LT04	7BG2	4	
	HP LT06	J3ES	8	
	HP LT05	I6BS	8	
	HP LT04	H58W	4	

## Chapter 7: WDM Network Solutions

### Brocade General Compatibility with WDM Solutions

Brocade supports all WDM networking solutions compliant with Fibre Channel standards for ISL extensions when configured in 'R\_RDY' mode.

Note the following limitations to WDM support:

- FEC should be turned off for 10G & 16G links
- Lossless capability cannot be guaranteed over DWDM network
- Virtual Fabrics requires Dedicated ISLs per Virtual Fabric (no base switch support for R\_RDY) or VC\_RDY-tested and certified products

Check with your WDM networking vendor for qualification test details for Brocade switches.

### Brocade ISL Trunking Support with WDM Solutions

Following is a list of equipment that has been tested to support Brocade ISL Trunking functionality. Please check with your preferred WDM vendor for details on their compatibility testing with Brocade equipment and supported configurations.

**ADVA Optical Networking:** Please check with ADVA at [www.advaoptical.com](http://www.advaoptical.com) for details on testing and supported configurations.

**Ciena:** Please check with Ciena at <http://www.ciena.com/products/6500/> for product details and supported configurations.

**Nokia:** The 1830 Photonic Service Switch from Nokia has been tested to support Brocade ISL Trunking functionality. Please check with Nokia at [1830 PSS compatibility with Brocade switches](#) for details on compatibility testing and supported configurations.

**SmartOptics:** The SmartOptics M-Series has been tested to support Brocade ISL Trunking functionality. Please check with SmartOptics at <http://www.smartoptics.com/products/m-series/> for details on compatibility testing and supported configurations.

**T8:** The VOLGA multiservice DWDM platform with MS-100E-T10 card from T8 has been tested in both R\_RDY and VC\_RDY mode, and includes ISL trunking and QoS functionality. Please check with T8 at [www.t8.ru](http://www.t8.ru) for details on testing and supported configurations.

## Chapter 8: Transceivers by Vendor

### Finisar

Vendor	Data Rate (Gbps)	Product	Part Number	Brocade Models
Finisar	4	4G ELWL - 50km	FWLF1524P2L55B03	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX  FOS 7.4.1a
		4G ELWL - 100km	FWLF1625P2L55B03	
		4G CWDM 80km (8 wavelengths from 1470nm-1610nm)	FWLF1625P2L47B04	
			FWLF1625P2L49B04	
			FWLF1625P2L51B04	
			FWLF1625P2L53B04	
			FWLF1625P2L55B04	
			FWLF1625P2L57B04	
		4G DWDM 80km (25 wavelengths from 1530nm-1560nm) w/ "T-3832" Mux (FOS 6.3.0 required)	FWLF1625P2L59B04	
	FWLF1625P2L61B04			
	FWLF1634RLxxB04  (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm)			
	8	8G CWDM 40km (16 wavelengths from 1290nm-1610nm)	FTLX2670SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm)	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX  FOS 7.4.1a
8G CWDM 40km (16 wavelengths from 1290nm-1610nm)		FTLX2670SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm)		
8	8G DWDM 40km (SFP+) (40 wavelengths from 1530nm-1560nm)	FTLX3670SCCxxB08 (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm)	300, 5100, VA-40FC, 5300, 54XX, 65XX, 7800, 7840, DCX-4S, DCX, 6505, 6510, 6520, DCX 8510-4, DCX 8510-8  FOS 7.4.1a	
8	8G CWDM 70km (SFP+) (8 wavelengths from 1470nm-1610nm)	FTLX2870SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm)	300, 5100, 5300, 7800, DCX-4S, DCX, DCX 8510-4, DCX 8510-8 (FOS 7.4.1a) 6505, 6510, 6520 (FOS 7.4.1a)	
16	16G DWDM 40km (SFP+)	FTLX3670SCCxxB16 (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm)	6505, 6510, 6520, DCX 8510-4, DCX 8510-8 FOS 7.4.1a	

## Smartoptics

Vendor	Data Rate (Gbps)	Product	Part Number	Brocade Models
Smartoptics	8	ELWL 40km	8G-ER-Dxxx-BR1 (note 1)	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX <b>FOS 7.1.1 (7840 = FOS 7.3.0b)</b>
		ELWL 70km	8G-ZR-C55-BR1	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX <b>FOS 7.1.1 (7840 = FOS 7.3.0b)</b>
		CWDM 70km (note 2)	8G-ZR-C47-BR1	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.1.1</b>
			8G-ZR-C49-BR1	
			8G-ZR-C51-BR1	
			8G-ZR-C53-BR1	
			8G-ZR-C55-BR1	
			8G-ZR-C57-BR1	
CWDM 40km (note 2)	8G-ZR-C59-BR1	300, 5100, VA-40FC, 5300, 54XX, 7800, 7840, DCX-4S, DCX <b>FOS 7.1.1</b>		
	8G-ZR-C61-BR1			
	SO-SFP-8GFC-40D-C27			
	SO-SFP-8GFC-40D-C29			
	SO-SFP-8GFC-40D-C31			
	SO-SFP-8GFC-40D-C33			
	SO-SFP-8GFC-40D-C35			
	SO-SFP-8GFC-40D-C37			
	SO-SFP-8GFC-40D-C39			
	SO-SFP-8GFC-40D-C41			
	SO-SFP-8GFC-40D-C47			
	SO-SFP-8GFC-40D-C49			
	SO-SFP-8GFC-40D-C51			
	SO-SFP-8GFC-40D-C53			
SO-SFP-8GFC-40D-C55				
SO-SFP-8GFC-40D-C57				
SO-SFP-8GFC-40D-C59				
SO-SFP-8GFC-40D-C61				
DWDM 0-40km (note 3)	8G-ER-Dxxx-BR1	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.1.1 (7840 = FOS 7.3.0b)</b>		
8G DWDM 0-120km (note 3&4)	8G-ER-Dxxx-BR1 and <b>M-1601-921936-D003TC1</b>	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.1.1 (7840 = FOS 7.3.0b)</b>		
8G DWDM 0-160km (note 3&4)	8G-ZR-Dxxx-BR1 and <b>M-1601-921936-D1A3TC1</b>	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.1.1 (7840 = FOS 7.3.0b)</b>		

Smartoptics (cont.)	16 (note 5)	ELWL 0-40km	16G-ER-Dxxx-BR1 (note 1)	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		CWDM 0-40km, Channel 1530nm	16G-ER-Dxxx-BR1 (note 1)	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		CWDM 0-40km, 1550nm	16G-ER-D340-BR1 (note 1)	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		DWDM 0-40km (note 3)	16G-ER-Dxxx-BR1 (note 5)	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		16G DWDM 0-40km (note 3&4)	16G-ER-Dxxx-BR1 and <b>M-1601-921936-D003TC1</b>	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		16G DWDM 0-80km (note 3&4)	16G-ER-Dxxx-BR1 and <b>M-1601-921936-D1A3TC1</b>	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>
		16G DWDM 40-120km (note 3&4)	16G-ER-Dxxx-BR1 and <b>M-1601-921936-D1B3TC1</b>	6505, 6510, 6520, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 7.3.1 (7840 = FOS 7.4.0)</b>

note (1)	CWDM 1530 Dxxx = D520 to D610 CWDM 1550 Dxxx = D260 to D420
note (2)	T-3009 supports eight CWDM wavelengths 1470nm to 1610nm. Expansion port for T-3016 T-3016 supports eight CWDM wavelengths 1290nm to 1430nm
Note (3)	Dxxx = D180 (1563.05nm), D190 (1562.23nm), D200 (1561.42nm), D210 (1560.61nm), D220 (1559.79nm), D230 (1558.98nm), D240 (1558.17nm), D250 (1557.36nm), D260 (1556.55nm), D270 (1555.75nm), D280 (1554.94nm), D290 (1554.13nm), D300 (1553.33nm), D310 (1552.52nm), D320 (1551.72nm), D330 (1550.92nm), D340 (1550.12nm), D350 (1549.32nm), D360 (1548.51nm), D370 (1547.72nm), D380 (1546.92nm), D390 (1546.12nm), D400 (1545.32nm), D410 (1544.53nm), D420 (1543.73nm), D430 (1542.94nm), D440 (1542.14nm), D450 (1541.35nm), D460 (1540.56nm), D470 (1539.77nm), D480 (1538.98nm), D490 (1538.19nm), D500 (1537.40nm), D510 (1536.61nm), D520 (1535.82nm), D530 (1535.04nm), D540 (1534.25nm), D550 (1533.47nm), D560 (1532.68nm), D570 (1531.90nm), D580 (1531.12nm), D590 (1530.33nm), D600 (1529.55nm), D610 (1528.77nm)
Note (4)	<b>Extended distances using embedded DWDM transceivers and intelligent mux/demux, no DWDM transponder system required</b> M-1601-921936-C0000C1 M-Series mux/demux with monitoring M-1601-921936-D003TC1 M-Series mux/demux with monitoring, Rx (EDFA & tunable DCM) M-1601-921936-D1A3TC1 M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM) M-1601-921936-D1B3TC1 M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM)
Note (5)	16G transceivers with E-Wrap/O-Wrap and GEN 6 support (suffix -BR2) require FOS 8.0.2 or higher

Vendor	Data Rate (Gbps)	Product	Part Number	Brocade Models
Smartoptics	8	DWDM 0-80km (note 3)	8G-ZR-Dxxx-BR1	6505, 6510, 6520, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		8G DWDM 0-120km (note 3&4)	8G-ZR-Dxxx-BR1 and <b>M-1601-921936-D003TC1</b>	6505, 6510, 6520, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		8G DWDM 0-160km (note 3&4)	8G-ZR-Dxxx-BR1 and <b>M-1601-921936-D1A3TC1</b>	6505, 6510, 6520, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
Smartoptics (cont.)	16	ELWL 0-40km	16G-ER-BR2	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		CWDM 0-40km, 1530nm	16G-ER-Dxxx-BR2 (note 1)	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		CWDM 0-40km, 1550nm	16G-ER-D340-BR2 (note 1)	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		DWDM 0-40km (note 3)	16G-ER-Dxxx-BR2 (note 5)	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		16G DWDM 0-40km (note 3&4)	16G-ER-Dxxx-BR2 and <b>M-1601-921936-D003TC1</b>	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		16G DWDM 0-80km (note 3&4)	16G-ER-Dxxx-BR2 and <b>M-1601-921936-D1A3TC1</b>	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>
		16G DWDM 40-120km (note 3&4)	16G-ER-Dxxx-BR2 and <b>M-1601-921936-D1B3TC1</b>	6505, 6510, 7840, DCX 8510-4, DCX 8510-8 <b>FOS 8.0.2 and later only</b>

<b>note (1)</b>	CWDM 1530	Dxxx = D520 to D610
	CWDM 1550	Dxxx = D260 to D420
<b>note (2)</b>	T-3009 supports eight CWDM wavelengths 1470nm to 1610nm. Expansion port for T-3016	
	T-3016 supports eight CWDM wavelengths 1290nm to 1430nm	



<b>Note (3)</b>	Dxxx = D180 (1563.05nm), D190 (1562.23nm), D200 (1561.42nm), D210 (1560.61nm), D220 (1559.79nm), D230 (1558.98nm), D240 (1558.17nm), D250 (1557.36nm), D260 (1556.55nm), D270 (1555.75nm), D280 (1554.94nm), D290 (1554.13nm), D300 (1553.33nm), D310 (1552.52nm), D320 (1551.72nm), D330 (1550.92nm), D340 (1550.12nm), D350 (1549.32nm), D360 (1548.51nm), D370 (1547.72nm), D380 (1546.92nm), D390 (1546.12nm), D400 (1545.32nm), D410 (1544.53nm), D420 (1543.73nm), D430 (1542.94nm), D440 (1542.14nm), D450 (1541.35nm), D460 (1540.56nm), D470 (1539.77nm), D480 (1538.98nm), D490 (1538.19nm), D500 (1537.40nm), D510 (1536.61nm), D520 (1535.82nm), D530 (1535.04nm), D540 (1534.25nm), D550 (1533.47nm), D560 (1532.68nm), D570 (1531.90nm), D580 (1531.12nm), D590 (1530.33nm), D600 (1529.55nm), D610 (1528.77nm)	
<b>Note (4)</b>	<b>Extended distances using embedded DWDM transceivers and intelligent mux/demux, no DWDM transponder system required</b>	
	M-1601-921936-C0000C1	M-Series mux/demux with monitoring
	M-1601-921936-D003TC1	M-Series mux/demux with monitoring, Rx (EDFA & tunable DCM)
	M-1601-921936-D1A3TC1	M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM)
	M-1601-921936-D1B3TC1	M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM)

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