

Brocade Fabric OS 8.x Compatibility Matrix

August 2019

This document summarizes equipment known to be compatible with the Brocade® Fabric OS® (FOS) 8.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 websites, some of which are listed on page 6.

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Chapter 7: WDM Network Solutions

7.1 Brocade General Compatibility with WDM Solutions

Brocade supports all WDM networking solutions that are compliant with Fibre Channel standards for ISL extensions when configured in R_RDY mode.

Note the following limitations with WDM support:

- FEC should be turned off for 10G and 16G links.
- Lossless capability cannot be guaranteed over a DWDM network.
- Virtual Fabrics support ISLs in only VC_RDY mode in a base switch (no support for R_RDY in a base switch). If using ISLs in VC_RDY mode over DWDM, use VC_RDY tested and certified products.

Check with your WDM networking vendor for qualification test details and supported product functionality and configurations with Brocade switches.

8.2 Smartoptics

Vendor	Data Rate (Gb/s)	Application	Part Number	Brocade Models
Smartoptics	8	8G ELWL 40km (Note 1)	8G-ER-Dxxx-BR1	8518/8514, 6510, FC8-32E, FC8-48E, 6505, 6510, 6520, DCX (FC8-16, FC8-32, FC8-48), 5300, 5100, 300, FX8-24, 7800, DCX-4S (FC8-16, FC8-32, FC8-48) FOS 7.1.1 or beyond 7840 FOS 7.3.0b or beyond
		8G ELWL 70km	8G-ZR-C55-BR1	8518/8514, FC8-32E, FC8-48E, DCX (FC8-16, FC8-32, FC8-48), DCX-4S (FC8-16, FC8-32, FC8-48) FOS 7.1.1 or beyond 6510, 6505, 6520, 7840 FOS 7.3.0b or beyond
		8G CWDM 70km (Note 2)	8G-ZR-Cxx-BR1	8518/8514, FC8-32E, FC8-48E, DCX (FC8-16, FC8-32, FC8-48), DCX-4S (FC8-16, FC8-32, FC8-48) FOS 7.1.1 or beyond 6510, 6505, 6520, 7840 FOS 7.3.0b or beyond
		8G DWDM 0-40km (Note 4)	8G-ER-Dxxx-BR1	8518/8514, 6510, FC8-32E, FC8-48E, 6505, 6510, 6520, DCX (FC8-16, FC8-32, FC8-48), 5300, 5100, 300, FX8-24, 7800, DCX-4S (FC8-16, FC8-32, FC8-48) FOS 7.1.1 or beyond 7840 FOS 7.3.0b or beyond
		8G DWDM 0-80km (Note 4)	8G-ZR-Dxxx-BR1	8518/8514, 6510, FC8-32E, FC8-48E, 6505, 6510, 6520 FOS 8.0.2 or beyond
		8G DWDM 40-160km (Note 4 & 5)	8G-ER-Dxxx-BR1 used together with M-Series Open Line System	8518/8514, 6510, FC8-32E, FC8-48E, 6505, 6510, 6520, DCX (FC8-16, FC8-32, FC8-48), 5300, 5100, 300, FX8-24, 7800, DCX-4S (FC8-16, FC8-32, FC8-48) FOS 7.1.1 or beyond 7840 FOS 7.3.0b or beyond
	16	16G ELWL 0-40km	16G-ER-Dxxx-BR1 (Note 1)	DCX8510 blades, 6505, 6510, 6520 FOS 7.3.1 or beyond 7840 FOS 7.4.0 or beyond G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx

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Vendor	Data Rate (Gb/s)	Application	Part Number	Brocade Models
			16G-ER-BR2 (E/O-Wrap support)	DCX8510 blades, 6505, 6510, 7840, G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond MXG610s FOS 8.1.0_Inx
		16G DWDM 0-40km, 1530 and 1550nm	16G-ER-Dxxx-BR1 (Note 3)	DCX8510 blades, 6505, 6510, 6520 FOS 7.3.1 or beyond 7840 FOS 7.4.0 or beyond G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond MXG610s FOS 8.1.0_Inx
			16G-ER-Dxxx-BR2 (E/O-Wrap support)	DCX8510 blades, 6505, 6510, 7840, G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx
		16G DWDM 0-40km (Note 4)	16G-ER-Dxxx-BR1	DCX8510 blades, 6505, 6510, 6520 FOS 7.3.1 or beyond 7840 FOS 7.4.0 or beyond G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx
			16G-ER-Dxxx-BR2 (E/O-Wrap support)	DCX8510 blades, 6505, 6510, 7840, G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx

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Vendor	Data Rate (Gb/s)	Application	Part Number	Brocade Models
		16G DWDM 40-120km (Note 4 & 5)	16G-ER-Dxxx-BR1 used together with M-Series Open Line System	DCX8510 blades, 6505, 6510, 6520 FOS 7.3.1 or beyond 7840 FOS 7.4.0 or beyond G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx
			16G-ER-Dxxx-BR2 used together with M-Series Open Line System (E/O-Wrap support)	DCX8510 blades, 6505, 6510, 7840 G620, SX6, FC32-48 FOS 8.0.2 or beyond G610 FOS 8.1.0 or beyond G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx
	32	32G DWDM (Note 6) with DCP-M40-ER Open Line System	32G-IR-DXXX-BR	X6 FC32-48 blade, SX6, G610, G620, G630 FOS 8.2.1c. G648 FOS 8.2.0_gft MXG610s FOS 8.1.0_Inx Currently with FOS 8.2.1c, both D-Port and MAPS are not supported with these optics.
Note 1	For Dxxx, use any wavelength between D210 and D600.			
Note 2	Cxx = C47 (1470nm), C49 (1490nm), C51 (1510nm), C53 (1530nm), C55 (1550nm), C57 (1570nm), C59 (1590nm), C61 (1610nm) Smartoptics CWDM transceivers work with any ITU standardised CWDM Mux/Demuxes.			
Note 3	For CWDM 1530	Use any of Dxxx = D520 to D610		
	For CWDM 1550	Use any of Dxxx = D260 to D420		
Note 4	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) Smartoptics CWDM transceivers work with any ITU standardised DWDM Mux/Demuxes.			

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Vendor	Data Rate (Gb/s)	Application	Part Number	Brocade Models
Note 5		Extended distances beyond the reach of standard ER and ZR transceivers use the M-Series 1U Open Line System. M-Series OLS is a 1U DWDM Mux/Demux with management and amplification.		
Note 6		xxx = (1) 915 (1565.50nm) (2) 916 (1564.68nm) (3) 917 (1563.86nm) (4) 918 (1563.05nm) (5) 919 (1562.23nm) (6) 921 (1560.61nm) (7) 922 (1559.79nm) (8) 923 (1558.98nm) (9) 924 (1558.17nm) (10) 925 (1557.36nm) (11) 926 (1556.55nm) (12) 927 (1555.75nm) (13) 928 (1554.94nm) (14) 929 (1554.13nm) (15) 930 (1553.33nm) (16) 931 (1552.52nm) (17) 932 (1551.72nm) (18) 933 (1550.92nm) (19) 934 (1550.12nm) (20) 935 (1549.32nm) (21) 936 (1548.51nm) (22) 937 (1547.72nm) (23) 938 (1546.92nm) (24) 939 (1546.12nm) (25) 940 (1545.32nm) (26) 941 (1544.53nm) (27) 942 (1543.73nm) (28) 943 (1542.94nm) (29) 944 (1542.14nm) (30) 945 (1541.35nm) (31) 946 (1540.56nm) (32) 947 (1539.77nm) (33) 948 (1538.98nm) (34) 949 (1538.19nm) (35) 950 (1537.40nm) (36) 951 (1536.61nm) (37) 952 (1535.82nm) (38) 953 (1535.04nm) (39) 954 (1534.25nm) (40) 955 (1533.47nm) (41) 956 (1532.68nm) (42) 957 (1531.90nm) (43) 958 (1531.12nm) (44) 959 (1530.33nm) (45) 960 (1529.55nm) (46) 961 (1528.77nm)		
		For help with link design, please contact info@Smartoptics.com .		

Revision History

Version 1.2; August 2019

Added the Brocade G648 Blade I/O Module for HPE Synergy. Made general product and firmware updates for partner products.

Version 1.1; February 2019

Added the Brocade 7810 Extension Switch. Made general product and firmware updates for partner products.

Version 1.0; September 2018

Initial document version.

