

Fortinet Transceivers

Transceiver Modules for Fortinet Products

Highlights

Copper and optical options

Supports

- SFP
- SFP+
- SFP28
- SFP56
- QSFP+
- DAC
- CFP2
- QSFP28
- QSFP56
- QSFP-DD

Performance from 1 Gbps to 400 Gbps

Tested for compatibility with Fortinet appliances

Take the Guesswork Out of Selecting Transceivers

Common connectivity problems in enterprise and data center networks are often traced back to low-quality and incompatible transceiver modules, rather than a fault in the network appliances themselves. Fortinet's transceivers have been purpose-built and tested to work with Fortinet equipment, ensuring that your network is as stable and robust as possible, and taking the guesswork out of selecting compatible transceivers.

Wide Range for Maximum Flexibility

Supporting various form factors, media types, and throughput, Fortinet transceivers provide connectivity options to meet many different network architectures and deployment scenarios. Whether your network demands high-speed 400 GE inside the data center, or long-range 1 GE to connect data centers in different cities, Fortinet has a transceiver to meet your needs.



Available in



Appliance

Key Features and Benefits

Various Interface Options

Fortinet transceivers support various interfaces including: SFP, SFP+, DAC, and newer high-speed standards including SFP28, SFP56, QSFP+, CFP2, QSFP28, QSFP56, and QSFP-DD.

Tested for Compatibility

You can rest assured that your Fortinet transceivers have been tested for compatibility on Fortinet products, taking the guesswork out of selecting transceivers for your environment.

Maximize Network Uptime

Eliminate connectivity problems to maximize network uptime by using quality transceivers, designed to work with Fortinet products.

Cost Effective

Transceiver modules can be expensive, especially those with sensitive high-speed optics. Fortinet delivers high-quality transceivers, while keeping cost to a minimum.



Quick Reference Matrix

Maximum Transmission Distance	SFP (100MBPS)	SFP (GE)	SFP (2.5 GE)	SFP+ (10 GE)	SFP28 (25 GE)	SFP56 (50 GE)
10 Meter				SP-CABLE-ADASFP+		
30 Meter				FN-TRAN-SFP+GC		
80 Meter				FN-TRAN-SFP+GC-T80		
100 Meter		FN-TRAN-GC			FN-TRAN-SFP28-SR	FN-TRAN-SFP56-SR
150 Meter						
220 Meter		FN-TRAN-SX (62.5/125 μm) FR-TRAN-SX (62.5/125 μm)		FN-TRAN-SFP+LRM on MMF		
300 Meter			FN-TRAN-SFP2-SX	FN-TRAN-SFP+SR FN-TRAN-SFP+LRM on SMF FN-TRAN-SFP+SRI		
400 Meter				FN-TRAN-SFP+SRI (on OM4 MMF)		
500 Meter		FN-TRAN-SX (50/125 μm) FR-TRAN-SX (50/125 μm) FN-TRAN-SXI (50/125 μm)				
550 Meter				FN-TRAN-SFP+SR (on OM4 MMF)		
2 Kilometer	FN-TRAN-FX FN-TRAN-SFX					
10 Kilometer		FN-TRAN-LX FN-TRAN-SFP-1BD10 FN-TRAN-SFP-1BU10		FN-TRAN-SFP+LR FN-TRAN-SFP+LRI	FN-TRAN-SFP28-LR	
25 Kilometer			FN-TRAN-SFP2-LX			
30 Kilometer				FN-TRAN-SFP+BD27 FN-TRAN-SFP+BD33		
40 Kilometer		FN-TRAN-SFP-1BD40 FN-TRAN-SFP-1BU40 FN-TRAN-EX		FN-TRAN-SFP+ER FN-TRAN-SFP+ERI		
80 Kilometer				FN-TRAN-SFP+ZR		
90 Kilometer		FR-TRAN-ZX				
Maximum Transmission Distance	QSFP+ (40 GE)	CFP2 (100 GE)	QSFP28 (100 GE)	QSFP56 (200 GE)	QSFPDD (400 GE)	
10 Meter						
30 Meter						
100 Meter	FN-TRAN-QSFP+SR FG-TRAN-QSFP+SR-BIDI (on OM3 MMF) FN-TRAN-QSFP-BIDI (on OM3 MMF)	FG-TRAN-CFP2-SR10	FN-TRAN-QSFP28-SR FN-TRAN-QSFP28-BIDI (on OM4 MMF) FN-TRAN-QSFP28-BIDI-I	FN-TRAN-QSFP56-SR4	FN-TRAN-QSFPDD-SR8	
150 Meter	FN-TRAN-QSFP+SR FG-TRAN-QSFP+SR-BIDI (on OM4 MMF) FN-TRAN-QSFP-BIDI (on OM4 MMF)		FN-TRAN-QSFP28-BIDI (on OM5 MMF)			
220 Meter						
300 Meter						
400 Meter						
500 Meter			FN-TRAN-QSFP28-DR		FN-TRAN-QSFPDD-DR4	
2 Kilometer			FN-TRAN-QSFP28-CWDM4 FN-TRAN-QSFP28-FR	FN-TRAN-QSFP56-FR4	FN-TRAN-QSFPDD-DR4+ FN-TRAN-QSFPDD-FR4	
10 Kilometer	FN-TRAN-QSFP+LR FN-TRAN-QSFP+LRI	FG-TRAN-CFP2-LR4	FN-TRAN-QSFP28-LR		FN-TRAN-QSFPDD-LR4	
20 Kilometer			FN-TRAN-QSFP28-ER			
30 Kilometer						
40 Kilometer	FN-TRAN-QSFP+ER					
80 Kilometer						
90 Kilometer						



Specifications

TRANSCEIVER MODULES										
HARDWARE	FN-TRAN-FX	FN-TRAN-SFX	FN-TRAN-FE	FN-TRAN-GC	FN-TRAN-SX	FN-TRAN-SXI	FR-TRAN-SX	FN-TRAN-LX	FN-TRAN-EX	FR-TRAN-ZX
Protocol Standard	100Base-FX	100Base-FX (SGMII)	100Base-T	1000Base-T	1000Base-SX	1000Base-SX	1000Base-SX	1000Base-LX	1000Base-EX	1000Base-LX
IEEE Standard	802.3u	802.3u	802.3u	802.3ab	802.3z	802.3z	802.3z	802.3z	802.3z	802.3z
Module Type	SFP	SFP	SFP	SFP	SFP	SFP	SFP	SFP	SFP	SFP
Data Link Rate for Ethernet	100 Mbps	100 Mbps	100 Mbps	1.25 Gbps	1.25 Gbps	1.25 Gbps	1.25 Gbps	1.25 Gbps	1.25 Gbps	1.25 Gbps
Transmission Range	2 km	2 km	100 m	100 m	220 m / 500 m	500 m	500 m	10 km	40 km	90 km
Media	MM	MM	Copper Interface	Copper interface	MM	MM	MM	SM	SM	SM
Wavelength (nm)	1310	1310			850	850	850	1310	1310	1550
Connector Type	Duplex LC	Duplex LC	RJ-45	RJ-45	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power Dissipation	< 1.1 W	< 1.2 W	< 1 W	1.05 W	< 800 mW	< 500 mW	< 500 mW	< 830 mW	1 W	< 700 mW
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40 to 85°C	-40°C to 85°C	-20°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

TRANSCEIVER MODULES						
HARDWARE	FN-TRAN-SFP-1BD10*	FN-TRAN-SFP-1BU10**	FN-TRAN-SFP-1BD40***	FN-TRAN-SFP-1BU40****	FN-TRAN-SFP2-SX	FN-TRAN-SFP2-LX
Protocol Standard	1000BASE-BX10	1000BASE-BX10	1000BASE-BX10	1000BASE-BX10	2500BASE-X	2500BASE-X
IEEE Standard	802.3ah	802.3ah	802.3ah	802.3ah	802.3z	802.3z
Module Type	SFP	SFP	SFP	SFP	SFP	SFP
Data Link Rate for Ethernet	1.25 Gbps	1.25 Gbps	1.25 Gbps	1.25 Gbps	2.5 Gbps	2.5 Gbps
Transmission Range	10 km	10 km	40 km	40 km	300 m	25 km
Media	SM	SM	SM	SM	MM	SM
Wavelength (nm)	TX: 1490 RX: 1310	TX: 1310 RX: 1490	TX: 1490 RX: 1310	TX: 1310 RX: 1490	850	1310
Connector Type	Simplex LC	Simplex LC	Simplex LC	Simplex LC	Duplex LC	Duplex LC
Power Dissipation	< 1 W	< 1 W	< 1 W	< 1 W	< 1 W	< 1 W
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes	Yes

* connects to FN-TRAN-1BU10, ordered separately

** connects to FN-TRAN-1BD10, ordered separately

*** connects to FN-TRAN-1BU40, ordered separately

**** connects to FN-TRAN-1BD40, ordered separately



Specifications

TRANSCEIVER MODULES						
HARDWARE	FN-TRAN-SFP+GC	FN-TRAN-SFP+GC-T80	FN-TRAN-SFP+SR	FN-TRAN-SFP+SRI	FN-TRAN-SFP+LR	FN-TRAN-SFP+LRI
Protocol Standard	10GBASE-T	10GBase-T	10GBase-SR	10GBase-SR	10GBase-LR	10GBase-LR
IEEE Standard	802.3an	802.3an	802.3ae	802.3ae	802.3ae	802.3ae
Module Type	SFP+	SFP+	SFP+	SFP+	SFP+	SFP+
Data Link Rate for Ethernet	10 Gbps	10 Gbps	10 Gbps	11.1 Gbps	10 Gbps	10.3 Gbps
Transmission Range	30 m (Cat6A or better)	80 m (Cat6a or better)	300 m (OM3) 550 m (OM4)	300 m (OM3) - 400 m (OM4)	10 km	10 km
Media	Copper interface	Copper Interface	MM	MM	SM	SM
Wavelength (nm)	—	—	850	850	1310	1310
Connector Type	RJ-45	RJ-45	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power Dissipation	2.5 W	1.88 W	600 mW	< 1 W	850 mW	< 1 W
Operating Temperature	-5°C to 85°C	-5°C to 85°C	0°C to 70°C	-40°-85°C	0°C to 85°C	-40°-85°C
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	No	No	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes	Yes

TRANSCEIVER MODULES						
HARDWARE	FN-TRAN-SFP+ER	FN-TRAN-SFP+ERI	FN-TRAN-SFP+LRM	FN-TRAN-SFP+ZR	FN-TRAN-SFP+BD27*	FN-TRAN-SFP+BD33**
Protocol Standard	10GBASE-ER	10GBase-ER	10GBase-LRM	10G-Base-ZR	10G-Base-LR/LW	10G-Base-LR/LW
IEEE Standard	802.3ae	802.3ae	802.3aq	802.3ae	802.3ae	802.3ae
Module Type	SFP+	SFP+	SFP+	SFP+	SFP+	SFP+
Data Link Rate for Ethernet	11.3 Gbps	10.3 Gbps	11.3 Gbps	11.3 Gbps	11.3 Gbps	11.3 Gbps
Transmission Range	40 km	40 km	220 m MMF 300 SMF	80 km	30 km	30 km
Media	SM	SM	MM/SM	SM	SM	SM
Wavelength (nm)	1550	1550	1310	1550	TX: 1271 RX: 1331	TX: 1331 RX: 1271
Connector Type	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Single LC	Single LC
Power Dissipation	1.5 W	< 1.8 W	< 1 W	< 1.5 W	< 1 W	< 1 W
Operating Temperature	-5°C to 70°C	-40°-85°C	0°C to 70°C	-5°C to 70°C	-5°C to 85°C	-5°C to 85°C
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes	Yes

* Connects to FN-TRAN-SFP+BD33, ordered separately.

** Connects to FN-TRAN-SFP+BD27, ordered separately.



Specifications

TRANSCEIVER MODULES		
HARDWARE	FN-TRAN-SFP28-SR	FN-TRAN-SFP28-LR
Protocol Standard	25GBase-SR, 10GBase-SR	25GBase-LR, 10GBase-LR
IEEE Standard	802.3by, 802.3ae	802.3cc
Module Type	SFP28	SFP28
Data Link Rate for Ethernet	25.78 / 10.3 Gbps	25.78 Gbps
Transmission Range	100 m	10 km
Media	MM	SM
Wavelength (nm)	850	1310
Connector Type	Duplex LC	Duplex LC
Power Dissipation	1.2 W	1.5 W
Operating Temperature	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes
Serial ID PROM	Yes	Yes
Digital Monitoring	Yes	Yes
Auto Negotiation	No	No
Link Status	Yes	Yes

TRANSCEIVER MODULES						
HARDWARE	FN-TRAN-QSFP+SR	FN-TRAN-QSFP+LR	FN-TRAN-QSFP+LRI	FN-TRAN-QSFP+ER	FG-TRAN-QSFP+SR BIDI	FN-TRAN-QSFP-BIDI
Protocol Standard	40GBase-SR4	40GBase-LR4	40GBase-LR4	40G-Base-ER4	40GBase-SR-BiDi	40GBase-SR-BiDi
IEEE Standard	802.3ba	802.3ba	802.3ba	802.3bm	802.3ba	802.3ba
Module Type	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+	QSFP+
Data Link Rate for Ethernet	1.06 Gbps–41.2 Gbps	41.2 Gbps	41.2 Gbps	41.3 Gbps	41.2 Gbps	41.2Gbps
Transmission Range	100 m (OM3)–150 m (OM4)	10 km	10 km	40 km	100 m (OM3)–150 m (OM4)	100 m (OM3)–150 m (OM4)
Media	MM	SM	SM	SM	MM	MM
Wavelength (nm)	750–980	1264.5 - 1277.5 1284.5 - 1297.5 1304.5 - 1317.5 1324.5 - 1337.5	1264.5 - 1277.5 1284.5 - 1297.5 1304.5 - 1317.5 1324.5 - 1337.5	1264.5 - 1277.5 1284.5 - 1297.5 1304.5 - 1317.5 1324.5 - 1337.5	850–900	850-900
Connector Type	Single 1×12 MPO	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power Dissipation	< 1.5 W	< 3.5 W	< 3.5 W	< 3.5 W	< 3.5 W	< 3.5 W
Operating Temperature	0°C to 70°C	0°C to 70°C	-40°–85°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	No	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes	Yes



Specifications

TRANSCEIVER MODULES					
HARDWARE	FG-TRAN-CFP2-SR10	FG-TRAN-CFP2-LR4	FN-TRAN-QSFP28-SR	FN-TRAN-QSFP28-LR	FN-TRAN-QSFP28-FR
Protocol Standard	100GBase-SR10	100GBase-LR4	100GBase-SR4	100GBase-LR4	100GBase-FR
IEEE Standard	802.3ba	802.3ba	802.3bm	802.3ba	802.3bm/cd/cu
Module Type	CFP2	CFP2	QSFP28	QSFP28	QSFP28
Data Link Rate for Ethernet	103.12 Gbps	103.1 Gbps	103.1 Gbps	103.1 Gbps	103.1 Gbps
Transmission Range	100 m (OM3)–150 m (OM4)	10 km	100 m (OM4)	10 km (SMF)	2 km
Media	MM	SM	MM	SM	SM
Wavelength (nm)	850	1310	850	1294.53 – 1296.59 1299.02 – 1301.09 1303.54 – 1305.63 1308.09 – 1310.19	1310
Connector Type	24 fiber MPO	Duplex LC	MPO12	Duplex LC	Duplex LC
Power Dissipation		< 8 W	< 3.5 W	< 3.5 W	< 4.5 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes

TRANSCEIVER MODULES					
HARDWARE	FN-TRAN-QSFP28-ER	FN-TRAN-QSFP28-DR	FN-TRAN-QSFP28-CWDM4	FN-TRAN-QSFP28-BIDI	FN-TRAN-QSFP28-BIDI-I
Protocol Standard	100G-Base-LR4	100G-Base-DR	100GBase-CWDM4	100GBase-SR-BiDi	100G-Base-SR1.2
IEEE Standard	802.3ba/bm	802.3bm/cd/cu	802.3bm	802.3bm	802.3bm
Module Type	QSFP28	QSFP28	QSFP28	QSFP28	QSFP28
Data Link Rate for Ethernet	103.1 Gbps	103.1 Gbps	103.1 Gbps	103.1 Gbps	106.25 Gbps
Transmission Range	20 km	500 m	2 km	100 m	100 m
Media	SM	SM	SM	MM	MM
Wavelength (nm)	1294.53 – 1296.59 1299.02 – 1301.09 1303.54 – 1305.63 1308.09 – 1310.19	1304.5 – 1317.5	1264.5 – 1277.5 1284.5 – 1297.5 1304.5 – 1317.5 1324.5 – 1337.5	850 900	850 900
Connector Type	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power Dissipation	< 3.5 W	< 4.5 W	< 3.5 W	< 3.5 W	< 4 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	10°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes



Specifications

TRANSCEIVER MODULES			
HARDWARE	FN-TRAN-SFP56-SR	FN-TRAN-QSFP56-SR4	FN-TRAN-QSFP56-FR4
Protocol Standard	50G-Base-SR	200G-Base-SR4	200G-Base-FR4
IEEE Standard	802.3cd	802.3cd	802.3bs
Module Type	SFP56	QSFP56	QSFP56
Data Link Rate for Ethernet	53.125 Gbps	212.5 Gbps	212.5 Gbps
Transmission Range	100 m	100 m	2 km
Media	MM	MM	SM
Wavelength (nm)	850	850	1264.5 – 1277.5 1284.5 – 1297.5 1304.5 – 1317.5 1324.5 – 1337.5
Connector Type	Duplex LC	MPO-12	Duplex LC
Power Dissipation	< 1.5 W	< 4.5 W	< 6 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes
Link Status	Yes	Yes	Yes

TRANSCEIVER MODULES					
HARDWARE	FN-TRAN-QSFPDD-SR8	FN-TRAN-QSFPDD-LR4	FN-TRAN-QSFPDD-FR4	FN-TRAN-QSFPDD-DR4	FN-TRAN-QSFPDD-DR4+
Protocol Standard	400G-Base-SR8	400G-Base-LR4	400G-Base-FR4	400G-Base-DR4	400G-Base-DR4
IEEE Standard	802.3bs	802.3bs	802.3cu	802.3bs	802.3bs
Module Type	QSFP-DD	QSFP-DD	QSFP-DD	QSFP-DD	QSFP-DD
Data Link Rate for Ethernet	425 Gbps	425 Gbps	425 Gbps	425 Gbps	425 Gbps
Transmission Range	100 m	10 km	2 km	500 m	2 km
Media	MM	SM	SM	SM	SM
Wavelength (nm)	850	1271 1291 1311 1331	1271 1291 1311 1331	1310	1311
Connector Type	MPO-16 APC	Duplex LC	Duplex LC	MPO-12	MPO-12
Power Dissipation	< 9 W	< 10.5 W	< 12 W	< 12 W	< 14 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes	Yes
Serial ID PROM	Yes	Yes	Yes	Yes	Yes
Digital Monitoring	Yes	Yes	Yes	Yes	Yes
Auto Negotiation	Yes	Yes	Yes	Yes	Yes
Link Status	Yes	Yes	Yes	Yes	Yes



Specifications

DIRECT ATTACH CABLES				
HARDWARE	FN-CABLE-SFP+1	FN-CABLE-SFP+3	FN-CABLE-SFP+5	SP-CABLE-ADASFP+
Protocol Standard	10GBase-CR	10GBase-CR	10GBase-CR	10GBase-CR
Data Link Rate for Ethernet	10 Gbps	10 Gbps	10 Gbps	1 Gbps to 10 Gbps
Module Type	SFP+	SFP+	SFP+	SFP+
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W	< 0.5 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes
Cable Length	1 m	3 m	5 m	10 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Active
Transceiver	Included	Included	Included	Included
Compliance	RoHS	RoHS	RoHS	RoHS
Bend Radius	22 mm (30 AWG)	22 mm (30 AWG)	33 mm (24 AWG)	25 mm (30 AWG)
Cable Diameter	4.5 mm	4.5 mm	5.6 mm	4.5 mm
Digital Monitoring	Yes	Yes	Yes	Yes

DIRECT ATTACH CABLES			
HARDWARE	FN-CABLE-SFP28-1	FN-CABLE-SFP28-3	FN-CABLE-SFP28-5
Protocol Standard	25GBase-CR	25GBase-CR	25GBase-CR
Data Link Rate for Ethernet	25 Gbps	25 Gbps	25 Gbps
Module Type	SFP28	SFP28	SFP28
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Hot Plug	Yes	Yes	Yes
Cable Length	1 m	3 m	5 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included
Compliance	RoHS	RoHS	RoHS
Bend Radius	35 mm (30 AWG)	35 mm (30 AWG)	35 mm (30 AWG)
Cable Diameter	4.83 mm	4.83 mm	4.83 mm
Digital Monitoring	Yes	Yes	Yes

Specifications

DIRECT ATTACH CABLES				
HARDWARE	FN-CABLE-QSFP+1	FN-CABLE-QSFP+3	FN-CABLE-QSFP+5	FN-CABLE-QSFP+7
Protocol Standard	40GBase-CR4	40GBase-CR4	40GBase-CR4	40GBase-CR4
Data Link Rate for Ethernet	40 Gbps	40 Gbps	40 Gbps	40 Gbps
Module Type	QSFP+	QSFP+	QSFP+	QSFP+
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W	<0.1 W
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Hot Plug	Yes	Yes	Yes	Yes
Cable Length	1 m	3 m	5 m	7 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included	Included
Compliance	RoHS	RoHS	RoHS	RoHS
Bend Radius	37.5 mm (28 AWG)	37.5 mm (28 AWG)	44 mm (26 AWG)	49 mm (24 AWG)
Cable Diameter	7.5 mm	7.5 mm	8.8 mm	9.8 mm
Digital Monitoring	Yes	Yes	Yes	Yes

DIRECT ATTACH CABLES (DAC)				
HARDWARE	FN-CABLE-SFP56-DAC-L1	FN-CABLE-SFP56-DAC-LB5	FN-CABLE-QSFP56-DAC-L1	FN-CABLE-QSFP56-DAC-LB5
Protocol Standard	50GBase-CR	50GBase-CR	200G-BASE-CR4	200G-BASE-CR4
Data Link Rate for Ethernet	50 Gbps	50 Gbps	200 Gbps	200 Gbps
Module Type	SFP56	SFP56	QSFP56	QSFP56
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W	< 0.1 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes
Cable Length	1 m	2.5 m	1 m	2.5 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included	Included
Compliance	RoHS	RoHS	RoHS	RoHS
Bend Radius	22.5 mm (30 AWG)	27.5 mm (28 AWG)	35.0 mm (30 AWG)	42.5 mm (28 AWG)
Cable Diameter	4.5 mm	5.5 mm	7.0 mm	8.5 mm
Digital Monitoring	No	No	No	No

DIRECT ATTACH CABLES (DAC)				
HARDWARE	FN-CABLE-QSFP28-1	FN-CABLE-QSFP28-2	FN-CABLE-QSFP28-3	FN-CABLE-QSFP28-5
Protocol Standard	100GBase-CR4	100GBase-CR4	100GBase-CR4	100GBase-CR4
Data Link Rate for Ethernet	100 Gbps	100 Gbps	100 Gbps	100 Gbps
Module Type	QSFP28	QSFP28	QSFP28	QSFP28
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W	< 0.1 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes
Cable Length	1 m	2 m	3 m	5 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included	Included
Compliance	RoHS	RoHS	RoHS	RoHS
Bend Radius	25 mm (30 AWG)	25 mm (30 AWG)	25 mm (30 AWG)	25 mm (30 AWG)
Cable Diameter	6.4 mm	6.4 mm	6.4 mm	6.4 mm
Digital Monitoring	N/A	N/A	N/A	N/A



Specifications

	DIRECT ATTACH CABLE (DAC)	DIRECT ATTACH CABLE (DAC)	ACTIVE OPTICAL CABLE (AOC)
HARDWARE	FN-CABLE-QSFPDD-DAC-01	FN-CABLE-QSFPDD-DAC-B5	FN-CABLE-QSFPDD-AOC-03
Protocol Standard	400GBase-CR8	400GBase-CR8	400G Ethernet
IEEE Standard	IEEE802.3bs	IEEE802.3bs	IEEE802.3bs
Data Link Rate for Ethernet	425 Gbps	425 Gbps	425 Gbps
Module Type	QSFP-DD	QSFP-DD	QSFP-DD
Power Dissipation	< 0.1 W	< 0.1 W	8 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes
Cable Length	1 m	2.5 m	3 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	OM3
Transceiver	Included	Included	Included
Compliance	RoHS	RoHS	RoHS
Bend Radius	31.5 mm (30 AWG)	40.6 mm (26 AWG)	—
Cable Diameter	9.0 mm	11.6 mm	—
Digital Monitoring	No	No	Yes

	BREAKOUT DIRECT ATTACH CABLES (DAC)		
HARDWARE	FN-CABLE-QSFP28-4SFP28-1	FN-CABLE-QSFP28-4SFP28-3	FN-CABLE-QSFP28-4SFP28-5
Protocol Standard	25GBase-CR	25GBase-CR	25GBase-CR
IEEE Standard			
Data Link Rate for Ethernet	1× 100 Gbps 4× 25 Gbps	1× 100 Gbps 4× 25 Gbps	1× 100 Gbps 4× 25 Gbps
Module Type	1x QSFP28 4x SFP28	1x QSFP28 4x SFP28	1x QSFP28 4x SFP28
Power Dissipation	< 0.1 W	< 0.1 W	< 0.1 W
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Hot Plug	Yes	Yes	Yes
Cable Length	1 m	3 m	5 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included
Compliance	RoHS	RoHS	RoHS
Bend Radius	30 mm (30 AWG)	30 mm (30 AWG)	30 mm (30 AWG)
Cable Diameter	4.83 mm	4.83 mm	4.83 mm
Digital Monitoring	Yes	Yes	Yes



Specifications

BREAKOUT DIRECT ATTACH CABLES (DAC)				
HARDWARE	FN-CABLE-QSFPDD-2QSFP56-L1	FN-CABLE-QSFPDD-2QSFP56-LB5	FN-CABLE-QSFPDD-8SFP56-L1	FN-CABLE-QSFPDD-8SFP56-LB5
Protocol Standard	400G/200G Ethernet	400G/200G Ethernet	400G/50G Ethernet	400G/50G Ethernet
IEEE Standard	802.3cd	802.3cd	802.3cd	802.3cd
Data Link Rate for Ethernet	1× 400 Gbps 2× 200 Gbps	1× 400 Gbps 2× 200 Gbps	1× 400 Gbps 8× 50 Gbps	1× 400 Gbps 8× 50 Gbps
Module Type	1x QSFP-DD 2x QSFP56	1x QSFP-DD 2x QSFP56	1x QSFP-DD 8x SFP56	1x QSFP-DD 8x SFP56
Power Dissipation	0.1 W	0.1 W	0.1 W	0.1 W
Operating Temperature	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Hot Plug	Yes	Yes	Yes	Yes
Cable Length	1 m	2.5 m	1 m	2.5 m
Cable Type	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive	Twinax Copper Passive
Transceiver	Included	Included	Included	Included
Compliance	RoHS	RoHS	RoHS	RoHS
Bend Radius	70 mm (30 AWG)	85 mm (28 AWG)	45 mm (30 AWG)	50 mm (28 AWG)
Cable Diameter	7.0 mm	8.5 mm	4.5 mm	5.0 mm
Digital Monitoring	No	No	No	No

BREAKOUT CABLES				
HARDWARE	FG-TRAN-QSFP-4xSFP	FG-TRAN-QSFP-4SFP-5	FG-CABLE-SR10-SFP+	FG-CABLE-SR10-SFP+5
Connector A	1× 40 GE QSFP+	1× 40 GE QSFP+	1× 100 GE SR10 CFP2	1× 100 GE SR10 CFP2
Connector A Type	MPO	MPO	MPO	MPO
Connector B	4× 10 GE SFP+	4× 10 GE SFP+	10× 10 GE SFP+	10× 10 GE SFP+
Connector B Type	LC duplex	LC duplex	LC duplex	LC duplex
Cable Length	1 m	5 m	1 m	5 m
Cable Type	OM3 MMF	OM3 MMF	OM3 MMF	OM3 MMF
Transceiver	Not included	Not included	Not included	Not included

Fortinet Breakout Cables — Qualified on Fortinet Products (on applicable interfaces)



Ordering Information

Product	SKU	Description
Transceivers		
1 GE SFP Transceiver module, 10km, BiDi	FN-TRAN-SFP-1BD10	1 GE SFP BiDi transceiver module, long range 10km, single LC connector, SMF, TX:1490nm/RX:1310nm, -40°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-1BU10, ordered separately).
1 GE SFP Transceiver module, 10km, BiDi	FN-TRAN-SFP-1BU10	1 GE SFP BiDi transceiver module, long range 10km, single LC connector, SMF, TX:1310nm/RX:1490nm, -40°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-1BD10, ordered separately).
1 GE SFP Transceiver module, 40km, BiDi	FN-TRAN-SFP-1BD40	1 GE SFP BiDi transceiver module, long range 40km, single LC connector, SMF, TX:1490nm/RX:1310nm, -40°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-1BU40, ordered separately).
1 GE SFP Transceiver module, 40km, BiDi	FN-TRAN-SFP-1BU40	1 GE SFP BiDi transceiver module, long range 40km, single LC connector, SMF, TX:1310nm/RX:1490nm, -40°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-1BD40, ordered separately).
1 GE SFP LX Transceiver module, long range	FN-TRAN-LX	1 GE SFP transceiver module, long range 10km, LC connector, SMF, 1310nm, -40°C to 85°C, for systems with SFP/SFP+ slots.
1 GE SFP RJ45 Transceiver module, 100m range	FN-TRAN-GC	1 GE SFP transceiver module, range 100m, RJ45 connector, -40°C to 85°C, for systems with SFP/SFP+ slots.
1 GE SFP SX Transceiver module, short range	FN-TRAN-SX	1 GE SFP transceiver module, short range 500m, LC connector, MMF, 850nm, -20°C to 85°C, for systems with SFP slots.
1 GE SFP transceiver module, short range 500m	FN-TRAN-SXI-4PACK	Pack of four 1 GE SFP transceiver module, short range 500m, LC connector, MMF, 850nm, -40°C to 85°C, for systems with SFP slots.
1 GE SFP SX Transceiver module, MMF, -40°-85°C operation	FR-TRAN-SX	1 GE SFP transceiver module, short range 500m, LC connector, MMF, 850nm, -40°C to 85°C, for systems with SFP slots.
1 GE SFP transceiver module, long range 40km	FN-TRAN-EX-4PACK	Pack of four 1 GE SFP transceiver module, long range 40km, LC connector, SMF, 1310nm, -40°C to 85°C, for systems with SFP/SFP+ slots.
1 GE SFP Transceiver module, 90 km range, -40°-85°C operation	FR-TRAN-ZX	1 GE SFP transceiver module, long range 90km, LC connector, SMF, 1550nm, -40°C to 85°C, for systems with SFP slots.
Pack of four 1 GE SFP transceiver module, short range 500m	FN-TRAN-SXI-4PACK	Pack of four 1 GE SFP transceiver module, short range 500m, LC connector, MMF, 850nm, -40°C to 85°C, for systems with SFP slots.
2.5 GE SFP Transceiver module, 20km range	FN-TRAN-SFP2-LX	2.5 GE SFP+ transceiver module, long range 25km, LC connector, SMF, 1310nm, -40°C to 70°C, for systems with SFP/SFP+ slots.
2.5 GE SFP Transceiver module, short range	FN-TRAN-SFP2-SX	2.5 GE SFP+ transceiver module, long range 300m, LC connector, MMF, 850nm, -40°C to 70°C, for systems with SFP/SFP+ slots.
10 GE SFP+ Transceiver module, short range	FN-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range 550m, LC connector, MMF, 850nm, -40°C to 85°C, for systems with SFP+ slots.
10 GE SFP+ transceiver module, short range	FN-TRAN-SFP+SRI	10 GE SFP+ transceiver module, short range 400m, LC connector, MMF, 850nm, -40°C to 85°C, for systems with SFP+ slots.
10 GE SFP+ Transceiver module, long range	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with SFP+ slots. TAA Compliant.
10 GE SFP+ transceiver module, 10km range	FN-TRAN-SFP+LRI	10 GE SFP+ transceiver module, long range 10km, LC connector, SMF, 1310nm, -40°C to 85°C, for systems with SFP+ slots.
10 GE SFP Transceiver module, long range MMF	FN-TRAN-SFP+LRM	10 GE SFP+ transceiver module, long range 220m/300m, LC connector, OM1 MMF/SMF, 1310nm, 0°C to 70°C, for systems with SFP+ slots.
10 GE SFP+ Transceiver module, short range, BiDi	FN-TRAN-SFP+BD27	10 GE SFP+ BiDi transceiver module, long range 30km, single LC connector, SMF, TX:1331nm/RX:1271nm, -5°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-SFP+BD27, ordered separately).
10 GE SFP+ Transceiver module, short range, BiDi	FN-TRAN-SFP+BD33	10 GE SFP+ BiDi transceiver module, long range 30km, single LC connector, SMF, TX:1331nm/RX:1271nm, -5°C to 85°C, for systems with SFP+ slots (connects to FN-TRAN-SFP+BD27, ordered separately).
10 GE SFP+ Transceiver module, extended range	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, long range 40km, LC connector, SMF, 1550nm, -40°C to 85°C, for systems with SFP+ slots.
10 GE SFP+ transceiver module, 40km range	FN-TRAN-SFP+ERI	10 GE SFP+ transceiver module, long range 40km, LC connector, SMF, 1550nm, -40°C to 85°C, for systems with SFP+ slots.
10 GE SFP+ Transceiver module, extended range	FN-TRAN-SFP+ZR	10 GE SFP+ transceiver module, long range 80km, LC connector, SMF, 1550nm, -5°C to 70°C, for systems with SFP+ slots.
10 GE copper SFP+ RJ45 Transceiver module, 30m range	FN-TRAN-SFP+GC	10 GE SFP+ transceiver module, range 30m, RJ45 connector, CAT6A, -5°C to 85°C, for systems with SFP+ slots.
10 GE copper SFP+ RJ45 Transceiver module, 80m range	FN-TRAN-SFP+GC-T80	10 GE SFP+ transceiver module, range 80m, RJ45 connector, CAT6A, -5°C to 85°C, for systems with SFP+ slots.



Ordering Information

Product	SKU	Description
25 GE SFP28 transceiver module, long range	FN-TRAN-SFP28-LR	25 GE / 10 GE SFP28 transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with SFP28 slots.
25 GE SFP28 Transceiver module, short range	FN-TRAN-SFP28-SR	25 GE / 10 GE SFP28 transceiver module, short range 100m, LC connector, MMF, 850nm, 0°C to 70°C, for systems with SFP28 slots.
40 GE QSFP+ Transceiver module, short range	FN-TRAN-QSFP+SR	40 GE QSFP+ transceiver module, short range 150m, MPO-12 connector, four channel parallel MMF, 850nm, 0°C to 70°C, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ Transceiver module, extended range	FN-TRAN-QSFP+ER	40 GE QSFP+ transceiver module, long range 40km, LC connector, SMF, 40GBase-ER4, 0°C to 70°C, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ Transceiver module, short range, BiDi	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ BiDi transceiver module, short range 150m, LC connector, MMF, 850nm/900nm, 0°C to 70°C, for systems with QSFP28 slots.
40 GE QSFP+ BiDi Transceiver module, short range 150m	FN-TRAN-QSFP+BIDI	40 GE QSFP+ BiDi transceiver module, short range 150m, LC connector, MMF, 850nm/900nm, 0°C to 70°C, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ Transceiver module, long range	FN-TRAN-QSFP+LR	40 GE QSFP+ transceiver module, long range 10km, LC connector, SMF, 40GBase-LR4, 0°C to 70°C, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ transceiver module, 10km range	FN-TRAN-QSFP+LRI	40 GE QSFP+ transceiver module, long range 10km, LC connector, SMF, 40GBase-LR4, -40°C to 85°C, for systems with QSFP+/QSFP28 slots.
50 GE SFP56 Transceiver module, short range	FN-TRAN-SFP56-SR	50 GE SFP56 transceiver module, short range 100m, LC connector, MMF, 850nm, 0°C to 70°C, for systems with SFP28 slots.
100 Mb SFP Transceiver module, 2km range over MMF	FN-TRAN-FX	100 M SFP transceiver module, long range 2km, LC connector, MMF, 1310nm, -40°C to 85°C, for systems with SFP slots and capable of 10/100Mb mode selection.
100 M SFP transceiver module, long range 2km over MMF, SGMII interface	FN-TRAN-SFX	100 M SFP transceiver module with SGMII interface, long range 2km, LC connector, MMF, 1310nm, -40°C to 85°C, for systems with SFP slots and SGMII interface.
100M Fast Ethernet transceiver module, range 100M	FN-TRAN-FE-4PACK	Pack of four 100M Fast Ethernet transceiver module, range 100m, RJ45 connector, -40°C to 85°C, for systems with SFP slots.
100 GE CFP2 Transceiver module, long range	FG-TRAN-CFP2-LR4	100 GE CFP2 transceiver module, long range 10km, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with CFP2 slots.
100 GE CFP2 Transceiver module, short range	FG-TRAN-CFP2-SR10	100 GE CFP2 transceiver module, short range 100m, MPO-24 connector, ten-channel parallel MMF, 850nm, 0°C to 70°C, for systems with CFP2 slots.
100 GE QSFP28 Transceiver module, short range	FN-TRAN-QSFP28-SR	100 GE QSFP28 transceiver module, short range 100m, MPO-12 connector, four-channel parallel MMF, 850nm, 0°C to 70°C, for systems with QSFP28 slots. TAA compliant.
100 GE QSFP28 Transceiver module, long range	FN-TRAN-QSFP28-LR	100 GE QSFP28 transceiver module, long range 10km, LC connector, SMF, 100GBase-LR4, 0°C to 70°C, for systems with QSFP28 slots.
100 GE QSFP28 transceiver module, long range	FN-TRAN-QSFP28-FR	100 GE QSFP28 transceiver module, long range 2km, LC connector, SMF, 1310nm, 100GBase-FR, 0°C to 70°C, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver module, extended range	FN-TRAN-QSFP28-ER	100 GE QSFP28 transceiver module, long range 20km, LC connector, SMF, 100GBase-LR4, 0°C to 70°C, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver module, short range	FN-TRAN-QSFP28-DR	100 GE QSFP28 transceiver module, short range 500m, LC connector, SMF, 1310nm, 0°C to 70°C, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver module, CWDM	FN-TRAN-QSFP28-CWDM4	100 GE QSFP28 transceiver module, long range 2km, LC connector, SMF, 100GBase-CWDM4, 0°C to 70°C, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver module, short range, BiDi	FN-TRAN-QSFP28-BIDI	100 GE QSFP28 BiDi transceiver module, short range 100m, LC connector, MMF, 850nm/900nm, 0°C to 70°C, 100GBase-SR-BiDi, for systems with QSFP28 slots.
100 GE QSFP28 Transceiver module, short range, BiDi	FN-TRAN-QSFP28-BIDI-I	100 GE QSFP28 BiDi transceiver module, short range 100m, LC connector, MMF, 850nm/900nm, 0°C to 70°C, 100G-Base-SR1.2, for systems with QSFP28 slots.
200 GE QSFP56 Transceiver module, short range	FN-TRAN-QSFP56-SR4	200 GE QSFP56 transceiver module, short range 100m, MPO-12 connector, four-channel parallel MMF, 850nm, 0°C to 70°C, for systems with QSFP56 slots.
200 GE QSFP56 transceiver module, 2km range	FN-TRAN-QSFP56-FR4	200 GE QSFP56 transceiver module, long range 2km, LC connector, SMF, 200G-Base-FR4, 0°C to 70°C, for systems with QSFP56 slots.
400 GE QSFPDD Transceiver module, short range	FN-TRAN-QSFPDD-SR8	400 GE QSFPDD transceiver module, short range 100m, MPO-16 connector, eight-channel parallel MMF, 850nm, 0°C to 70°C, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver module, short range	FN-TRAN-QSFPDD-DR4	400 GE QSFPDD transceiver module, short range 500m, MPO-12 connector, four-channel parallel SMF, 1310nm, 0°C to 70°C, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver module, long range	FN-TRAN-QSFPDD-LR4	400 GE QSFPDD transceiver module, long range 10km, LC connector, SMF, 400G-Base-LR4, 0°C to 70°C, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver module, mid range	FN-TRAN-QSFPDD-FR4	400 GE QSFPDD transceiver module, long range 2km, LC connector, SMF, 400G-Base-FR4, 0°C to 70°C, for systems with QSFP-DD slots.
400 GE QSFPDD Transceiver module, mid range	FN-TRAN-QSFPDD-DR4+	400 GE QSFPDD transceiver module, long range 2km, MPO-12 connector, four-channel parallel SMF, 1311nm, 0°C to 70°C, for systems with QSFP-DD slots.
Cables		
10 GE SFP+ active direct attach cable, 10m/32.8 ft	SP-CABLE-ADASFP+	10 GE SFP+ active direct attach cable, 10m, 0°C to 70°C, transceivers included, for systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ passive direct attach cable 1m	FN-CABLE-SFP+1	10 GE SFP+ passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with SFP/SFP+ slots.



Ordering Information

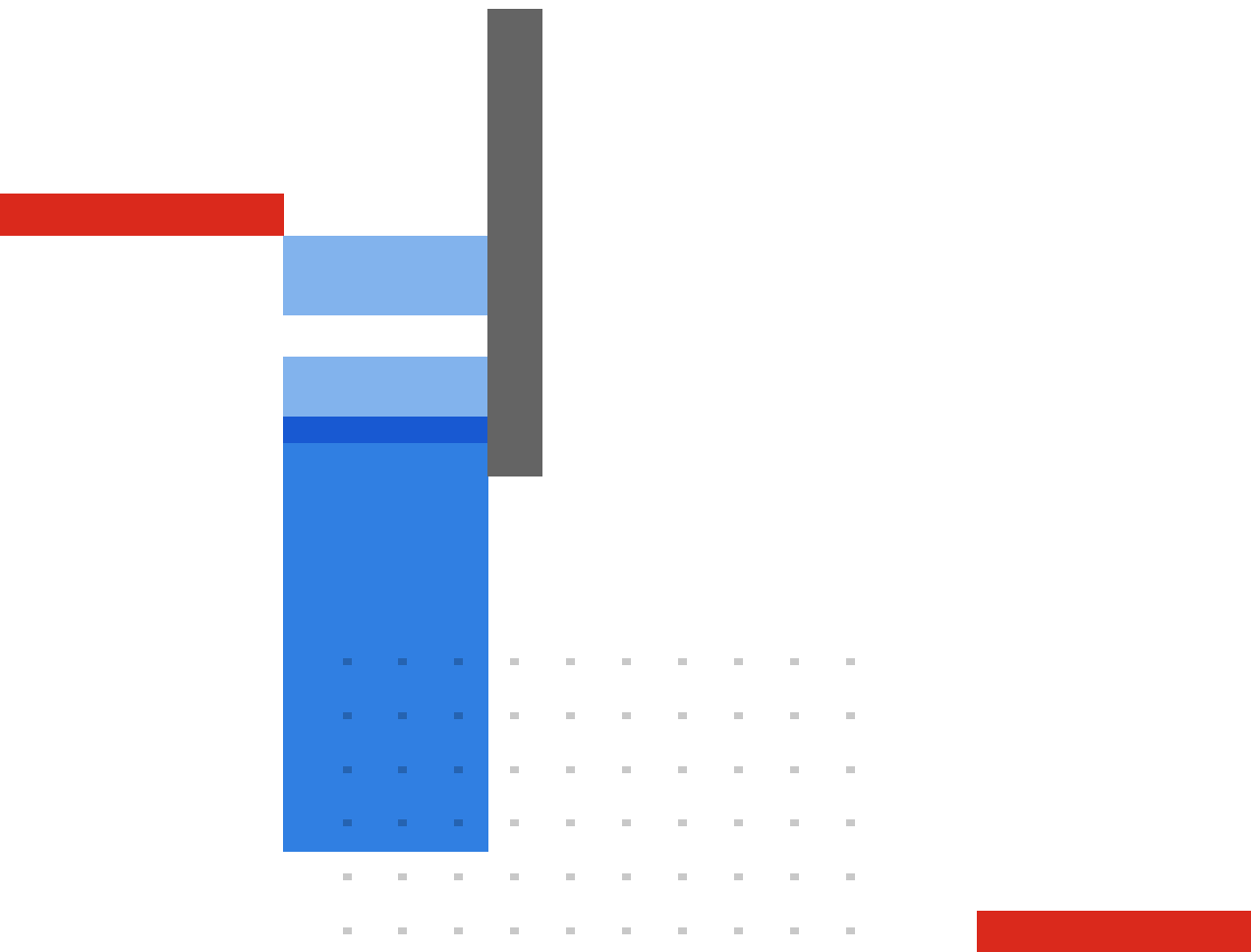
Product	SKU	Description
10 GE SFP+ passive direct attach cable 3m	FN-CABLE-SFP+3	10 GE SFP+ passive direct attach cable, 3m, 0°C to 70°C, transceivers included, for systems with SFP/SFP+ slots.
10 GE SFP+ passive direct attach cable 5m	FN-CABLE-SFP+5	10 GE SFP+ passive direct attach cable, 5m, 0°C to 70°C, transceivers included, for systems with SFP/SFP+ slots.
25 GE passive direct attach cable 1m	FN-CABLE-SFP28-1	25 GE SFP28 passive direct attach cable, 1m, -40°C to 85°C, transceivers included, for systems with SFP28 slots.
25 GE passive direct attach cable 3m	FN-CABLE-SFP28-3	25 GE SFP28 passive direct attach cable, 3m, -40°C to 85°C, transceivers included, for systems with SFP28 slots.
25 GE passive direct attach cable 5m	FN-CABLE-SFP28-5	25 GE SFP28 passive direct attach cable, 5m, -40°C to 85°C, transceivers included, for systems with SFP28 slots.
40 GE QSFP+ passive direct attach cable 1m	FN-CABLE-QSFP+1	40 GE QSFP+ passive direct attach cable, 1m, -40°C to 85°C, transceivers included, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ passive direct attach cable 3m	FN-CABLE-QSFP+3	40 GE QSFP+ passive direct attach cable, 3m, -40°C to 85°C, transceivers included, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ passive direct attach cable 5m	FN-CABLE-QSFP+5	40 GE QSFP+ passive direct attach cable, 5m, -40°C to 85°C, transceivers included, for systems with QSFP+/QSFP28 slots.
40 GE QSFP+ passive direct attach cable, 7m	FN-CABLE-QSFP+7-4PACK	Pack of four 40 GE QSFP+ passive direct attach cable, 7m, -40°C to 85°C, transceivers included, for systems with QSFP+/QSFP28 slots
40 G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 1m	FG-TRAN-QSFP-4XSFP	40G/100G QSFP+/QSFP28 to SFP+/SFP28 parallel breakout MPO to 4xLC connectors, OM3 MMF, 1m, transceivers not included.
40 G/100G QSFP+ to 4x SFP+/SFP28 optical breakout 5m	FG-TRAN-QSFP-4SFP-5	40G/100G QSFP+/QSFP28 to SFP+/SFP28 parallel breakout MPO to 4xLC connectors, OM3 MMF, 5m, transceivers not included.
50 GE SFP56 passive direct attach cable, 1m	FN-CABLE-SFP56-DAC-L1	50 GE SFP56 passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with SFP56 slots.
50 GE SFP56 passive direct attach cable, 2.5m	FN-CABLE-SFP56-DAC-LB5	50 GE SFP56 passive direct attach cable, 2.5m, 0°C to 70°C, transceivers included, for systems with SFP56 slots.
100 GE SR10 to 10x 10 GE fan out cable, 1m	FG-CABLE-SR10-SFP+	100 GE CFP2 parallel breakout MPO to 10xLC connectors, OM3 MMF, 1m reach, transceivers not included.
100 GE SR10 to 10x 10 GE fan out cable, 5m	FG-CABLE-SR10-SFP+5	100 GE CFP2 parallel breakout MPO to 10xLC connectors, OM3 MMF, 5m reach, transceivers not included.
100 GE passive direct attach cable 1m	FN-CABLE-QSFP28-1	100 GE QSFP28 passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with QSFP28 slots.
100 GE passive direct attach cable 2m	FN-CABLE-QSFP28-2	100 GE QSFP28 passive direct attach cable, 2m, 0°C to 70°C, transceivers included, for systems with QSFP28 slots.
100 GE passive direct attach cable 3m	FN-CABLE-QSFP28-3	100 GE QSFP28 passive direct attach cable, 3m, 0°C to 70°C, transceivers included, for systems with QSFP28 slots.
100 GE passive direct attach cable 5m	FN-CABLE-QSFP28-5	100 GE QSFP28 passive direct attach cable, 5m, 0°C to 70°C, transceivers included, for systems with QSFP28 slots.
100 GE QSFP28 to 4x 25 GE SFP28 direct attach cable breakout, 1m	FN-CABLE-QSFP28-4SFP28-1	100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 1m, -40°C to 85°C, transceivers included, for systems with QSFP28/QSFP+, SFP28/SFP+ slots.
100 GE QSFP28 to 4x 25 GE SFP28 direct attach cable breakout, 3m	FN-CABLE-QSFP28-4SFP28-3	100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 3m, -40°C to 85°C, transceivers included, for systems with QSFP28/QSFP+, SFP28/SFP+ slots.
100 GE QSFP28 to 4x 25 GE SFP28 direct attach cable breakout, 5m	FN-CABLE-QSFP28-4SFP28-5	100 GE QSFP28 breakout to 4x 25 GE SFP28 passive direct attach cable, 5m, -40°C to 85°C, transceivers included, for systems with QSFP28/QSFP+, SFP28/SFP+ slots.
200 GE QSFP56 passive direct attach cable, 1m	FN-CABLE-QSFP56-DAC-L1	200 GE QSFP56 passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with QSFP56 slots.
200 GE QSFP56 passive direct attach cable, 2.5m	FN-CABLE-QSFP56-DAC-LB5	200 GE QSFP56 passive direct attach cable, 2.5m, 0°C to 70°C, transceivers included, for systems with QSFP56 slots.
400 GE passive direct attach cable 1m	FN-CABLE-QSFPDD-DAC-01	400 GE QSFPDD passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with QSFP-DD slots.
400 GE passive direct attach cable 2.5m	FN-CABLE-QSFPDD-DAC-B5	400 GE QSFPDD passive direct attach cable, 2.5m, 0°C to 70°C, transceivers included, for systems with QSFP-DD slots.
400 GE QSFPDD Active Optical Cable, 3m	FN-CABLE-QSFPDD-AOC-03	400 GE QSFPDD active optical cable, 3m, 0°C to 70°C, transceivers included, for systems with QSFP-DD slots.
400 GE QSFPDD breakout to 2x 200 GE QSFP56 passive direct attach cable, 1m	FN-CABLE-QSFPDD-2QSFP56-L1	400 GE QSFPDD breakout to 2x 200 GE QSFP56 passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with QSFPDD, QSFP56 slots.
400 GE QSFPDD breakout to 2x 200 GE QSFP56 passive direct attach cable, 2.5m	FN-CABLE-QSFPDD-2QSFP56-LB5	400 GE QSFPDD breakout to 2x 200 GE QSFP56 passive direct attach cable, 2.5m, 0°C to 70°C, transceivers included, for systems with QSFPDD, QSFP56 slots.
400 GE QSFPDD breakout to 8x 50 GE SFP56 passive direct attach cable, 1m	FN-CABLE-QSFPDD-8SFP56-L1	400 GE QSFPDD breakout to 8x 50 GE SFP56 passive direct attach cable, 1m, 0°C to 70°C, transceivers included, for systems with QSFPDD, SFP56 slots.
400 GE QSFPDD breakout to 8x 50 GE SFP56 passive direct attach cable, 2.5m	FN-CABLE-QSFPDD-8SFP56-LB5	400 GE QSFPDD breakout to 8x 50 GE SFP56 passive direct attach cable, 2.5m, 0°C to 70°C, transceivers included, for systems with QSFPDD, SFP56 slots.

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