

40GE QSFP+ Fan-out Copper Cables

Extreme Networks' 40GE QSFP+ Fanout Copper cables are designed to have high performance, low power consumption, and long reach. 40GE QSFP+ Passive Copper Cables have extremely low power consumption of under 1W per cable which improves data center power consumption and thermal efficiency.



QSFP+ PASSIVE COPPER CABLES

Applications

40GE QSFP+ Fan-out Cable Copper cables are available up to 5m. The cables operate at a wavelength of 850nm

Products

40GE QSFP+ FAN-OUT CABLE 1 M

- 40 Gigabit Ethernet QSFP+ Fan-out Cable Copper cable assembly, 26 AWG, 1 m

40GE QSFP+ FAN-OUT CABLE 2M

- 40 Gigabit Ethernet QSFP+ Fan-out Cable Copper cable assembly, 26 AWG 2 m

40GE QSFP+ FAN-OUT CABLE 3M

- 40 Gigabit Ethernet QSFP+ Fan-out Cable Copper cable assembly, 28 AWG, 3m

40GE PASSIVE QSFP+ FANOUT

- Copper cables are used in multiple applications in High End Servers and High Performance Computing Clusters.

40GE QSFP+ FAN-OUT CABLE 5M

- 40 Gigabit Ethernet QSFP+ Fan-out Cable assembly, 28 AWG , 5m
- Full duplex 4 channel parallel passive copper cable
- Transmission data up to 10G Bits/s per channel
- SFF-8436 QSFP+ compliant
- Hot pluggable electrical interface
- Low power consumption
- Operating case temperature 0°C to +70°C
- RoHS 6 compliant

Technical Specifications

QSFP+ FANOUT CABLES	1 M	2M	3M	5M
Connector Type	MSA compliant	MSA compliant	MSA compliant	MSA compliant
Power Consumption	<1W	<1W	<1W	<1W
Center Wavelength Range	850nm	850nm	850nm	850nm
Distance Range	1m	2m	3m	5m
Operating Temperature	0° C to 70°	0° C to 70°	0° C to 70°	0° C to 70°
Bit Error Rate	10 ⁻¹²	10 ⁻¹²	10 ⁻¹²	10 ⁻¹²

Physical Specifications

10202:

- Dimensions (HxWxD): 40x5x1.5 in 7.09x1.83x1.26 cm)
- Weight: 0.68 lb (45.35 g) unpackaged, 0.625 lb (67.47 g) packaged
- Shipping box dimensions (HxWxD): 17x14x2 in (3.2x7.28x11.98 cm)

10203:

- Dimensions (HxWxD): 80x5x1.5 in 7.09x1.83x1.26 cm)
- Weight: 1.31 lb (45.35 g) unpackaged, 1.25 lb (67.47 g) packaged
- Shipping box dimensions (HxWxD): 17x14x2 in (3.2x7.28x11.98 cm)

10321:

- Dimensions (HxWxD): 13x11.5x1 in 7.09x1.83x1.26 cm)
- Weight: 1.125 lb (45.35 g) unpackaged, 0.78 lb (67.47 g) packaged
- Shipping box dimensions (HxWxD): 13x11.5x1 in (3.2x7.28x11.98 cm)

10322:

- Dimensions (HxWxD): 17x13x1 in 7.09x1.83x1.26 cm)
- Weight: 1.375 lb (45.35 g) unpackaged, 1 lb (67.47 g) packaged
- Shipping box dimensions (HxWxD): 17x13x1 in (3.2x7.28x11.98 cm)

Technical Specifications

QSFP+ Passive Copper Cables are supported on the following platforms:

- BlackDiamond X8 series
- BlackDiamond 8800 series
- Summit 770 series
- Summit® X670 Series – VIM4-40GX module

- Summit® X650 Series – VIM3-40GX module
- Summit® X480 Series – XGM2-2xf module

Environmental Conditions

OPERATIONAL

- Operating Temperature: 0° C to 60° C (32° F to 158° F)
- Operating Humidity: 10% to 93% non-condensing
- Altitude: 0 – 4000 meters (13,000 ft)
- Operational Shock: 30 m/s² (3g), 11ms
- Operational Random Vibration: 5 – 500 Hz @ 1.5 Grms

TRANSPORTATION & STORAGE

- Temperature: -25° C to 70° C (-32° F to 158° F)
- Relative Humidity: 5% to 85%
- Shock: 180 m/s² (18g), 6ms
- Random Vibration: 5 – 20 Hz @ 1.0 ASD w/-3dB/oct. from 20 – 200 Hz
- Drop: 42" (105cm)

ENVIRONMENTAL STANDARDS

- EN 300 019-2-3 v2.1.2 (2003-04), Stationary Use, Class 3.1e
- EN 300 019-2-2 v2.1.2 (1999-09), Public Transportation, Class 2.3
- EN 300 019-2-1 v2.1.2 (2000-09), Storage, Class 1.2
- RoHS 6 compliant
- China RoHS compliant
- WEEE Compliant

Safety Compliance

NORTH AMERICAN SAFETY OF ITE

- UL60950-1:2006 2nd edition of later, Recognized Component
- cUL to CSA 22.2#60950-1:2006 2nd Ed or later, Recognized Component

EUROPEAN SAFETY OF ITE

- EN60950-1:2006+A11+A1+A12
- 2006/95/EC Low Voltage Directive (LVD)

LASER SAFETY

- EN60825-1:2007
- 21 CFR Subpart J, Class 1 Laser
- CDRH Letter of Approval

EMI/EMC Compliance

NORTH AMERICA EMC FOR ITE

- FCC CFR 47 Part 15 Class A (U.S.A.)
- ICES-003 Class A (Canada)

EUROPEAN EMC STANDARDS

- EN 55022:2010, Class A
- EN 55024 2010 • ETSI EN 300 386: v1.6.1 2008+A2:2010 (EMC Telecommunications)
- 2004/108/EC EMC Directive

INTERNATIONAL EMC CERTIFICATIONS

- CISPR 22:2010, Class A (International Emissions)
- CISPR 24 A2:2010(International Immunity)
 - IEC/EN 61000-4-2:2008 Electrostatic Discharge, 8kV Contact, 15kV Air, Criteria A
 - IEC/EN 61000-4-3:2010 Radiated Immunity 20V/m, Criteria A
 - IEC/EN 61000-4-4:2012 Transient Burst, 2kV, Criteria A
 - IEC/EN 61000-4-5 2005, Surge, 1kV L-L, 2kV L-G, Level 4, Criteria A
 - IEC/EN 61000-4-6:2008 Conducted Immunity, 0.15-80MHz, 10V/m unmod. RMS, Criteria A
 - IEC/EN 61000-4-11:2004 Power Dips & Interruptions, >30%, 25 periods, Criteria A

Note: All QSFP+ Passive Copper cables meet the above standards when installed on Extreme Networks equipment.

Ordering Information

PART NUMBER	NAME	DESCRIPTION
10202	1m QSFP+ to 4xSFP+ fanout,26 AWG	QSFP+ to 4 x SFP+ fan-out copper cable, 26 AWG, 1m length
10203	2m QSFP+ to 4xSFP+ fanout,26 AWG	QSFP+ to 4 x SFP+ fan-out copper cable, 26 AWG, 2m length.
10321	QSFP+ - 4xSFP+ fan-out cbl, 3m	QSFP+ to 4 x SFP+ fan-out copper cable, 28 AWG, 3m
10322	QSFP+ - 4xSFP+ fan-out cbl, 5m	QSFP+ to 4 x SFP+ fan-out copper cable, 28 AWG, 5m



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