



Overview

The QSFP-DD (the pluggable QSFP Double Density module) transceiver and interconnect cable is a high-speed product solution designed for applications in the data center, 5G telecommunications and networking markets. QSFP-DD supports up to 400 Gb/s in aggregate over an 8 x 50 Gb/s electrical interface. The cage and connector design provides backwards compatibility to QSFP28 modules which can be inserted into a QSFP-DD port and connected to 4 of the 8 electrical channels.



400G QSFP-DD DAC



QSFP-DD to 4xQSFP28
Fanout Cable



QSFP-DD to 2xQSFP56
Fanout Cable



400G QSFP-DD SR8



400G QSFP-DD DR4



400G QSFP-DD LR4



400G QSFP-DD
Loop Back



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400G QSFP-DD Series

Environmental Characteristics

◆ Operating Temperature	0 to 70°C
◆ Storage Temperature	-40 to 85 °C
◆ Relative Humidity	5 to 95%

Application

- ◆ Data Center
- ◆ 5G Applications
- ◆ Telecommunications
- ◆ Networking

Safety & IEEE Compliance

- ◆ Compliant with IEEE Std IEEE802.3TM-2018
- ◆ Gigabit Ethernet standard
- ◆ Compliant with IEEE Std IEEE802.3cd
- ◆ Class 1 laser product complies with EN 60825-1
- ◆ RoHS Compliant



400G QSFP-DD Fiber Optic Modules

Part Number	Model No.	Wavelength	Connector	Reach
OPDY-MX1-85-CB	QSFP-DD-SR8	850nm	MPO	100 m
OPDY-SX5-13-CB	QSFP-DD-DR4	1310nm	MPO	500 m
OPDY-S02-13-CT	QSFP-DD-DR4+	1310nm	MPO	2 km
OPDY-S02-13-CB	QSFP-DD-FR4	1310nm	LC	2 km
OPDY-S10-13-CBE	QSFP-DD-LR4	1310nm	LC	10 km

400G QSFP-DD Passive Direct-attach Cables

Part Number	Description	Length	Compliant
OPQSDD-T-X5-PE	400G QSFP-DD DAC 0.5 Meter, Passive	0.5 m	SFF-8636
OPQSDD-T-01-PE	400G QSFP-DD DAC 1 Meter, Passive	1 m	SFF-8636
OPQSDD-T-02-PC	400G QSFP-DD DAC 2 Meter, Passive	2 m	SFF-8636
OPQSDD-T-03-PB	400G QSFP-DD DAC 3 Meter, Passive	3 m	SFF-8636

400G QSFP-DD Active Direct-attach Cables

Part Number	Description	Length	Compliant
OPQSDD-T-04-PE	400G QSFP-DD DAC 4 Meter, Active	4 m	SFF-8636
OPQSDD-T-05-PE	400G QSFP-DD DAC 5 Meter, Active	5 m	SFF-8636
OPQSDD-T-06-PE	400G QSFP-DD DAC 6 Meter, Active	6 m	SFF-8636
OPQSDD-T-07-PE	400G QSFP-DD DAC 7 Meter, Active	7 m	SFF-8636

400G QSFP-DD to 2x200G QSFP56 Fanout Cables

Part Number	Description	Length	Compliant
OPQSDD-T-X5-P/QS56/2	400G QSFP-DD to 2x200G QSFP56 Fanout Cable	0.5 m	SFF-8636
OPQSDD-T-01-P/QS56/2	400G QSFP-DD to 2x200G QSFP56 Fanout Cable	1 m	SFF-8636
OPQSDD-T-02-P/QS56/2	400G QSFP-DD to 2x200G QSFP56 Fanout Cable	2 m	SFF-8636
OPQSDD-T-03-P/QS56/2	400G QSFP-DD to 2x200G QSFP56 Fanout Cable	3 m	SFF-8636

400G QSFP-DD to 4x100G QSFP28 Fanout Cables

Part Number	Description	Length	Compliant
OPQSDD-T-X5-P/QS28/2	400G QSFP-DD to 4x100G QSFP28 Fanout Cable	0.5 m	SFF-8636
OPQSDD-T-01-P/QS28/2	400G QSFP-DD to 4x100G QSFP28 Fanout Cable	1 m	SFF-8636
OPQSDD-T-02-P/QS28/2	400G QSFP-DD to 4x100G QSFP28 Fanout Cable	2 m	SFF-8636
OPQSDD-T-03-P/QS28/2	400G QSFP-DD to 4x100G QSFP28 Fanout Cable	3 m	SFF-8636

400G QSFP-DD to 8x50G SFP56 Fanout Cables

Part Number	Description	Length	Compliant
OPQSDD-T-X5-P/SF56/8	400G QSFP-DD to 8x50G SFP56 Fanout Cable	0.5 m	SFF-8636
OPQSDD-T-01-P/SF56/8	400G QSFP-DD to 8x50G SFP56 Fanout Cable	1 m	SFF-8636
OPQSDD-T-02-P/SF56/8	400G QSFP-DD to 8x50G SFP56 Fanout Cable	2 m	SFF-8636
OPQSDD-T-03-P/SF56/8	400G QSFP-DD to 8x50G SFP56 Fanout Cable	3 m	SFF-8636