QSFP-100G-SM-SR=
Datasheet

Overview

The Cisco® 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications. The QSFP-100G modules are our new generation of 100G transceiver modules solution based on a QSFP form factor.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	QSFP-100G-SM-SR=
Description	Cisco 100GBASE CWDM4 Lite QSFP Transceiver, 2km over SMF, 10-60C
Dimensions	13.5 x 18.4 x 72.4 mm
Nominal Wavelength (nm)	1271, 1291, 1311, 1331
Cable Type	SMF
Core Size (Microns)	G.652
Modal Bandwidth (MHz*km)	\
Cable Distance	2km
Power Consumption (W)	3.5
Pull Tab Color	Green

Product Details

QSFP-100G Optical modules provide these highlights:

- Hot-swappable input/output device that plugs into a 100G Gigabit Ethernet Cisco QSFP port

- Interoperable with other IEEE-compliant 100GBASE interfaces where applicable

- Certified and tested on Cisco QSFP-100G ports for superior performance, quality, and reliability

- High-speed electrical interface compliant to IEEE 802.3bm

Compare to Similar Items

Table 2 shows the comparison.

Product Code	QSFP-100G-CWDM4-S=	QSFP-100G-ER4L-S=	QSFP-100G-LR4-S=	QSFP-100G-PSM4-S=	QSFP-100G-SM-SR=	QSFP-100G-SR4-S=	QSFP-40/100-SRBD=
Description	Cisco 100GBASE CWDM4 QSFP Transceiver, LC, 2km over SMF	Cisco 100GBASE QSFP Transceiver, 40KM reach over SMF, Duplex LC	100GBASE LR4 QSFP Transceiver, LC, 10km over SMF	100GBASE PSM4 QSFP Transceiver, MPO, 500m over SMF	Cisco 100GBASE CWDM4 Lite QSFP Transceiver, 2km over SMF, 10-60C	100GBASE SR4 QSFP Transceiver, MPO, 100m over OM4 MMF	100G and 40GBASE SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF
Dimensions	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm	13.5 x 18.4 x 72.4 mm
Nominal Wavelength (nm)	1271, 1291, 1311, 1331	1295, 1300, 1304, 1309	1295, 1300, 1304, 1309	1310	1271, 1291, 1311, 1331	850	855, 908

Cable Type	SMF	SMF	SMF	SMF	SMF	MMF	MMF
Core Size (Microns)	G.652	G.652	G.652	G.652	G.652	50.0 50.0	50.0 50.0
Modal Bandwidth (MHz*km)	\	\	\	\	\	2000 (OM3) 4700 (OM4)	2000 (OM3) 4700 (OM4)
Cable Distance	2km	40km (with host FEC) 30km (without host FEC)	10km	500m	2km	70m 100m	70m 100m
Power Consumption (W)	3.5	4.5	4.0	3.5	3.5	3.5	3.5
Pull Tab Color	Green	Rad	Blue	Orange	Green	Beige	Gray

Get More Information

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Specification

QSFP-100G-SM-SR= Specification

Description	Cisco 100GBASE CWDM4 Lite QSFP Transceiver, 2km over SMF, 10-60C
Dimensions	13.5 x 18.4 x 72.4 mm
QSFP Port cabling specifications	
Nominal Wavelength (nm)	1271, 1291, 1311, 1331
Cable Type	SMF
Core Size (Microns)	G.652
Modal Bandwidth (MHz*km)[1]	\
Cable Distance	2km
Power Consumption (W)	3.5
Pull Tab Color	Green

[1] Specified at transmission wavelength. For QSFP-40/100-SRBD, Modal Bandwidth is specified at 850nm

Optical characteristics	
Transmit Power (dBm) per lane[2]	Max:+2.5 Min:-6.9
Receive Power (dBm) per lane[2][3]	Max:+2.5 Min: -11.1
Receive Power (dBm) per lane	Four lanes: 1271, 1291, 1311, 1331

[2] Transmitter and receiver power is average optical power, unless specified

[3] Optical power at RX is informative only. A received power within this range is required but does not ensure operation

Environmental Conditions and Power Requirements	
Commercial temperature	+10 to 60°C (50 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Regulatory and Standards compliance	
Standards	•SFF-8665: QSFP+ 28 Gb/s 4X Pluggable Transceiver Solution (QSFP28) - Rev 1.8 May 10, 2013 •SFF-8636: Common Management Interface - DRAFT Rev 1.9 May 12, 2014 •802.3™-2012 IEEE Standard for Ethernet •IEEE 802.3ba Amendment of IEEE Std 802.3-2012 •IEEE 802.3bm Amendment of IEEE Std 802.3-2012 (D3.1, 1st August 2014) •GR-20-CORE: Generic Requirements for Optical Fiber and Optical Fiber Cable •GR-326-CORE: Generic Requirements for Single-Mode Optical Connectors and Jumper Assemblies •GR-468-CORE: Generic Requirements for Optoelectronic Devices Used in Telecommunications Equipment •GR-1435-CORE: Generic Requirements for Multifiber Optical Connectors •RoHS 6
Safety	•Cable jacket of QSFP copper modules is UL E116441 Compliant •QSFP copper cables are ELV compliant

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