

# Cisco QSFP-100G-SM-SR Datasheet



Cisco QSFP-100G-SM-SR 100G CWDM4 Lite QSFP Transceiver, 2km over SMF, 10-60C

## QSFP-100G-SM-SR

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 latest generation of 100G transceiver modules solution based on a QSFP form factor.

## Features and benefits of Cisco QSFP modules

- 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

## Cisco QSFP-100G-SM-SR

The Cisco QSFP-100G-SM-SR QSFP module supports link lengths of up to 2 kilometers over a standard pair of G.652 Single-Mode Fiber (SMF) with duplex LC connectors. The 100 Gigabit Ethernet signal is carried over four wavelengths.

Multiplexing and demultiplexing of the four wavelengths are managed within the device. The operating temperature range is from +10 to +60°C with an optical link budget of 4.2 decibels. This 4.2-decibel link budget offers the ability to support the loss from patch panels in the link in a data center environment. QSFP 100G SM-SR is interoperable with QSFP-100G-CWDM4-S.

## Specifications

- Product Number: QSFP-100G-SM-SR
- Description: Cisco 100G CWDM4 Lite QSFP Transceiver, 2km over SMF, 10-60C
- Connector Type: LC
- Wavelength: 1271, 1291, 1311, 1331nm
- Cable Type: SMF
- Cable Distance: 2km
- Power Consumption: 3.5W
- Pull Tab Color: Green
- Transmit Power (dBm) per lane:
  - Maximum: +2.5
  - Minimum: -6.9
- Receive Power (dBm) per lane:
  - Maximum: +2.5
  - Minimum: -11.1
- Transmit and Receive Wavelength (nm): Four lanes: 1271, 1291, 1311, 1331

## Dimensions

- Maximum outer dimensions for the QSFP connector module are (H x W x D) 13.5 x 18.4 x 72.4 mm.
- Cisco QSFP connector modules typically weigh 100 grams or less.

## Environmental conditions

- Operating temperature range: +10 to 60°C (50 to 140°F)
- Storage temperature range: -40 to 85°C (-40 to 185°F)

## Platform support

Cisco QSFP-100G-SM-SR is supported on a wide range of Cisco equipment.

- Cisco Catalyst C9500-24Y4C
- Cisco Nexus 9300-EX Series 93180YC-EX
- Cisco NCS-5501
- Cisco Nexus N9K-C92160YC-X

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