

# Cisco QSFP-100G-LR-S Datasheet



Cisco QSFP-100G-LR-S 100G-LR QSFP Transceiver, 10km over SMF

QSFP-100G-LR-S

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-LR-S

The Cisco QSFP-100G-LR-S Module supports link lengths of up to 10 km over a standard pair of G.652 Single-Mode Fiber (SMF) with duplex LC connectors. The 100 Gigabit Ethernet signal is carried over a single wavelength using onboard

## PAM4 modulation and FEC.

### Specifications

- Product Number: QSFP-100G-LR-S
- Description: Cisco 100G-LR QSFP Transceiver, 10km over SMF
- Connector Type: LC
- Wavelength: 1310nm
- Cable Type: SMF
- Cable Distance: 10km
- Power Consumption: 4.0W
- Pull Tab Color: Blue
- Transmit Power (dBm) per lane:
  - Maximum: 4.5
  - Minimum: -1.4
- Receive Power (dBm) per lane:
  - Maximum: 4.5
  - Minimum: -7.7
- Transmit and Receive Wavelength (nm): 1304.5 to 1317.5

### 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: Commercial temperature range: 0 to 70°C (32 to 158°F)

- Storage temperature range: -40 to 85°C (-40 to 185°F)

## Platform support

Cisco QSFP-100G-LR-S is supported on a wide range of Cisco equipment.

- Cisco ASR 9000 series ASR 9010
- Cisco NCS 540 series NCS540
- Cisco NCS 5500 series NCS5508
- Cisco Nexus 9000 Series N9K-X9432C-S
- Cisco Nexus 9000 Series 93180YC-EX
- Cisco Catalyst 9500 series C9500-24Y4C
- Cisco NCS 5500 series NCS5501-SE
- Cisco Nexus 3000 Series N3K-C3232C
- Cisco Nexus 9000 Series N9K-92160YC-X
- Cisco ONS Transport Platform NCS-1002-K9

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