

# Cisco QSFP-40-100-SRBD Datasheet



Cisco QSFP-40/100-SRBD 100G and 40G SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF

QSFP-40-100-SRBD

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-40/100G-SRBD

The Cisco QSFP 40/100 Gb dual-rate Bi-Directional (BiDi) transceiver is a pluggable optical transceiver with a duplex LC connector interface for short-reach data communication and interconnect applications using Multi-Mode Fiber (MMF).

It offers customers a compelling solution that enables reuse of their existing 10 Gb duplex MMF infrastructure for migration to either 40 or 100 Gigabit Ethernet connectivity.

In 40-Gbps mode, the Cisco QSFP 40/100-Gbps BiDi transceiver supports link lengths of 100 and 150 meters on laser-optimized OM3 and OM4 multimode fibers, respectively. In 100-Gbps mode, it supports 70 and 100 meters on OM3 and OM4, respectively.

Each Cisco QSFP 40/100-Gbps BiDi transceiver consists of two transmit and receive channels in the 832-918 nanometer wavelength range, enabling an aggregated 40 or 100-Gbps link over a two-strand multimode fiber connection.

## Specifications

- Product Number: QSFP-40/100-SRBD
- Description: Cisco 100G and 40G SR-BiDi QSFP Transceiver, LC, 100m OM4 MMF
- Connector Type: LC
- Wavelength: 855, 908nm
- Cable Type: MMF
- Cable Distance:
  - 70m @ OM3
  - 100m @ OM4/OM5
- Power Consumption: 3.5W
- Pull Tab Color: Gray
- Transmit Power (dBm) per lane:
  - Maximum: +4 (100G), +5 (40G)
  - Minimum: -6 (100G), -4 (40G)
- Receive Power (dBm) per lane:

- Maximum: 4 (100G), 5 (40G)
- Minimum: -7.9 (100G), -6 (40G)
- Transmit and Receive Wavelength (nm): 855, 908

## 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:
  - 100G: +10°C to +60°C
  - 40G: +10°C to +70°C
- Storage temperature range: -40 to 85°C (-40 to 185°F)

## Platform support

Cisco QSFP-40/100-SRBD is supported on a wide range of Cisco equipment.

- Cisco NCS-5501
- Cisco ONS Transport Platform NCS-1002-K9
- Cisco Nexus N9K-C92160YC-X
- Cisco Nexus 9000 Series (Fixed 9200) N9K-C92160YC-X
- Cisco Nexus 9000 Series (Modular 9500) N9K-X9432C-S
- Cisco Nexus 9300-EX Series 93180YC-EX
- Cisco Nexus 3000 Series N3K-C3232C
- Cisco Catalyst C9500-24Y4C

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