

Cisco QSFP-40G-SR-BD Datasheet



Cisco QSFP-40G-SR-BD 40GBASE-SR Bi-Directional QSFP Module for Duplex MMF

QSFP-40G-SR-BD

The Cisco 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider applications.

Features and benefits of Cisco QSFP modules

- Hot-swappable input/output device that plugs into a 40 Gigabit Ethernet Cisco QSFP port
- Interoperable with other IEEE-compliant 40GBASE interfaces where applicable
- Certified and tested on Cisco QSFP 40G ports for superior performance, quality, and reliability
- High-speed electrical interface compliant to the IEEE 802.3ba standard
- QSFP Form factor, 2-wire I2C communication interface and other low-speed electrical interface compliant to SFF 8436 and QSFP Multisource Agreement (MSA)

Cisco QSFP-40G-SR-BD (40G BiDi)

The Cisco QSFP 40-Gbps BiDirectional (BiDi) transceiver (Figure 1) is a pluggable optical transceiver with a duplex LC

connector interface for short-reach data communication and interconnect applications using MultiMode Fiber (MMF). The Cisco QSFP 40-Gbps BiDi transceiver offers customers a compelling solution that enables reuse of their existing 10 gigabit duplex MMF infrastructure for migration to 40 Gigabit Ethernet connectivity.

The Cisco QSFP 40-Gbps BiDi transceiver supports link lengths of 100 and 150 meters on laser-optimized OM3, and OM4/OM5 multimode fibers, respectively.

The Cisco BiDi transceiver complies with the QSFP MSA specification, enabling customers to use it on all QSFP 40-Gbps platforms to achieve high-density 40 Gigabit Ethernet networks.

Each Cisco QSFP 40-Gbps BiDi transceiver consists of two 20-Gbps transmit and receive channels in the 832-918 nanometer wavelength range, enabling an aggregated 40-Gbps link over a two-strand multimode fiber connection.

Specifications

- Product number: QSFP-40G-SR-BD
- Description: Cisco 40GBASE-SR Bi-Directional QSFP Module for Duplex MMF
- Product Type: 40GBASE-SR-BiDi, Duplex MMF
- Connector Type: LC
- Wavelength: 832 - 918nm
- Cable type: MMF
- Cable distance:
 - 30m @ OM2

- 100m @ OM3
- 150m @ OM4/OM5
- Power consumption: 3.5W
- Pull tab color: Gray
- Transmit power (dBm)
 - Maximum: +5, per lane
 - Minimum: -4, per lane
- Receive power (dBm)
 - Maximum: +5, per lane
 - Minimum: -6, per lane
- Transmit and receive wavelength (nm): 832 to 918
- 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-40G-SR-BD 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 9396PX
- Cisco Nexus 92304QC
- Cisco Nexus N9K-C92160YC-X

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