Cisco QSFP-100G-FR-S Datasheet

Cisco QSFP-100G-FR-S 100G-FR QSFP Transceiver, 2km over SMF

QSFP-100G-FR-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-FR-S

The Cisco QSFP-100G-FR-S Module supports link lengths of up to 2 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. QSFP-100G-FR-S can also be used in applications meant for IEEE 100GBASE-DR, such as interoperability with IEEE 400GBASE-DR4 via fiber break-out cables.

Specifications

- Product Number: QSFP-100G-FR-S
- Description: Cisco 100G-FR QSFP Transceiver, 2km over SMF
- Connector Type: LC
- Wavelength: 1310nm
- Cable Type: SMF
- Cable Distance: 2km
- Power Consumption: 4.3W
- Pull Tab Color: Green
- Transmit Power (dBm) per lane:
    - Maximum: 4
    - Minimum: -2.4
- Receive Power (dBm) per lane:
    - Maximum: 4.5
    - Minimum: -6.4
- 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-FR-S is supported on a wide range of Cisco equipment.

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