

Cisco QSFP-100G-4W40-I Datasheet



Cisco QSFP-100G-4W40-I 100G WDM-40 QSFP Transceiver, 40KM reach over SMF, Duplex LC

QSFP-100G-4W40-I

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-4W40-I

The Cisco QSFP100 4W40-I supports link lengths of up to 40km over a standard pair of G.652 single-mode fiber 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. Full 40km reach requires the use of FEC on the host platform. Without FEC, the reach is 30km. The QSFP100 4W40-I provides backward compatibility with Cisco's CPAK ER4-Lite, whose reach is up to 25km, and with IEEE 100GBASE-ER4 standardized transceivers, such as Cisco's CFP 100G ER4, up to 30km. It also interoperates with Cisco's QSFP100 and CPAK IEEE 100GBASE-LR4 modules up to 10km. The Cisco QSFP100 4W40-I supports industrial temperature range.

Specifications

- Product Number: QSFP-100G-4W40-I
- Description: Cisco 100G WDM-40 QSFP Transceiver, 40KM reach over SMF, Duplex LC
- Connector Type: LC
- Wavelength: 1295, 1300, 1304, 1309nm
- Cable Type: SMF
- Cable Distance: 40km (with host FEC), 30km (without host FEC)
- Power Consumption: 4.5W
- Pull Tab Color: Red
- Transmit Power (dBm) per lane:
 - Maximum: +6.5
 - Minimum: -2.5
- Receive Power (dBm) per lane:
 - Maximum: -3.5
 - Minimum: -20.5
- Transmit and Receive Wavelength (nm): Four lanes: 1295, 1300, 1304, 1309

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

Platform support

Cisco QSFP-100G-4W40-I is supported on a wide range of Cisco equipment.

- Cisco Nexus 9300-EX Series 93180YC-EX
- Cisco Nexus N9K-C92160YC-X
- Cisco NCS-5501

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