

Cisco QSFP-4X10G-LR-S Datasheet



Cisco QSFP-4X10G-LR-S 4x10GBASE-LR QSFP Modules for SMF

QSFP-4X10G-LR-S

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-4X10G-LR-S (S-Class)

The Cisco QSFP-4X10G-LR-S QSFP module supports link lengths of up to 10km on G.652 Single-Mode Fiber (SMF). It

enables high-bandwidth 40G optical links over 12-fiber parallel fiber terminated with MPO/MTP multifiber female connectors. It can also be used in a 4x10G mode for interoperability with 10GBASE-LR interfaces up to 10km.

The 4x10G connectivity is achieved using an external 12-fiber parallel to 2-fiber duplex breakout cable, which connects the 4x10G LR module to four 10GBASE-LR optical interfaces. Cisco's QSFP-4X10G-LR-S is optimized to guarantee interoperability in 4x10G mode over the full specification range of 10GBASE-LR and the SFP-10/25G-LR-S (in 10G mode). QSFP-4X10G-LR-S does not support FCoE.

Specifications

- Product number: QSFP-4X10G-LR-S
- Description: Cisco 4x10GBASE-LR QSFP Modules for SMF
- Product Type: 4x10GBASE-LR
- Connector Type: MPO-12
- Wavelength: 1310nm
- Cable type: SMF
- Cable distance: 10km
- Power consumption: 3.5W
- Pull tab color: Blue
- Transmit power (dBm)
 - Maximum: 0.5, per lane
 - Minimum: -8.2, per lane
- Receive power (dBm)
 - Maximum: 0.5, per lane
 - Minimum: -14.4, per lane
- Transmit and receive wavelength (nm): 1260 to 1355
- 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-4X10G-LR-S is supported on a wide range of Cisco equipments.

- Cisco Nexus 3000 N3K-3172PQ
- Cisco Nexus 3000 N3K-C3164Q
- Cisco NCS-5501
- Cisco Nexus 9000 N9K-X9636PQ
- Cisco Nexus 9000 N9K-C9332PQ
- Cisco NCS 1002-K9
- Cisco Nexus 3000 N3K-C3232C
- Cisco Nexus 3000 N3K-C3064X
- Cisco Nexus 9396PX
- Cisco Nexus 3000 N3K-3172TQ
- Cisco Nexus 3000 N3K-C3132Q-X
- Cisco Catalyst C9500-24Y4C
- Cisco Nexus 3000 N3K-C31128PQ-10GE
- Cisco Nexus 92304QC
- Cisco NCS-5508
- Cisco Nexus 3000 N3K-C3264Q
- Cisco Nexus 9300-EX Series 93180YC-EX
- Cisco Nexus 9000 N9K-X9536PQ
- Cisco Nexus N9K-C92160YC-X
- Cisco Nexus 9000 N9K-X9432PQ

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