

40g Single-Mode Optical Module Wavelength



Overview

The QSFP+ optical module is specifically designed for 40GBASE Ethernet, supporting a throughput of up to 10km over single-mode fiber (SMF) with a wavelength of 1310nm through duplex LC connectors. This transceiver conforms to the QSFP+ MSA, IEEE 802.3ba 40GBASE-LR4, and OTU3. 40GBASE-SR4, also called QSFP-40G-SR4, provides short-range 40GbE connections. Digital diagnostics functions are also available via the I2C. The QSFP+ module utilizes 12 Fibers MTP/MPO Male connectors, achieving a link distance of up to 150m over OM4 MMF (100m over OM3). It is designed for high-speed data transmission in networking applications. These transceivers offer faster speeds and increased bandwidth compared to lower-speed options, allowing for improved.



Article Content

400G, 800G, and Terabit Pluggable Optics:

Full range of 400G / 800G pluggable modules Copper cables Multimode Fiber – 100m
Single Mode Fiber inside DC – 500m & 2km Single Mode Fiber Campus – 10 km
Outside plant, DCI – 100 km →

Cisco 40G QSFP+ Transceiver Modules – Network Warehouse

Cisco QSFP-40G-ER4 The Cisco 40GBASE-ER4 QSFP Module supports link lengths up to 40km over G.652 single-mode fiber with duplex LC connectors. The 40GE or OTU3 signal is carried over four

40G QSFP+ 10~40km transceiver

The QSFP+ module is designed for use in 40GBASE Ethernet throughput up to 10km, 30km or 40km over single mode fiber (SMF) using a wavelength of

The Key Differences Between 1-core, 2-core, Single

Understanding 1-core, 2-core, Single Mode, and Multi-mode optical modules helps you design efficient networks. Whether you're working on long

40G QSFP Modules-Optical Transceivers

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Cisco 40GBASE QSFP Modules Data Sheet

The Cisco 40GBASE-ER4 QSFP Module supports link lengths up to 40km over G.652 single-mode fiber with duplex LC connectors. The 40GE or OTU3 signal is carried over four

40G PLR4 4x10G LR QSFP+ 1310nm 10km | HEYOPTICS

QSFP+ Optical Transceiver Module is designed for use in 40GBASE Ethernet throughput up to 10km over single mode fiber (SMF) using a wavelength of

Factory 25G LWDM TOSA Optical Transmitter Module Low Power

It integrates wavelength stabilized LWDM technology with low power TEC control to ensure reliable optical output. The LC receptacle single-mode design enables easy deployment in fiber

Optical Transceivers / SFP Modules – High-Performance Compatible

Comprehensive Optical Transceivers & SFP Module for High-Speed Networks LINK-PP offers a full range of optical transceivers and SFP module for modern data centers, telecom networks, and

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

BlueOptics 40G QSFP+ Transceivers | The Differences Between SR4

The 40 Gigabit QSFP+ LR4 fiber optic module converts electrical signals into multiple optical wavelengths, with the laser controller managing each wavelength. It then combines these

Arista Optics Modules and Cables

Each module is optimized for different media and reach (ranging from 0.5 meters to 80 kilometers). All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper

40GBASE-LR4 Application Overview

40GBASE-LR4 supports four long wavelength WDM serial transmission over duplex (2-fiber) single-mode optical fiber cabling. The application's equivalent symbol rate is 41.25 GBd per lane and

Single-Mode vs Multi-Mode Transceivers: How to

Learn how operating wavelength and fiber core size determine single-mode vs multimode transceiver selection — distances, speeds, costs and best practices.

Fiberstore QSFP-LR4-40G, 40GbE QSFP+ Optical Transceiver Module

Item description from the seller Item Description Genuine Fiberstore QSFP-LR4-40G QSFP+ Optical Transceiver Module in used condition. Designed for high-speed 40Gb Ethernet networking over long

Optical Transceiver vs. Fiber Optic Module: What's the Difference ...

If a product is called an “optical module” and adheres to an MSA, it's functionally a pluggable transceiver in practice. (Practical note: always match form factor + MSA + optical specification — e.g., SFP+ 10G

SFP-10G-ER40 Single Mode 10G 40km SFP Transceiver Module 10G

Product Summary SFP-10G-ER40 Single Mode 10G 40km SFP Transceiver Module 10G SFP+ 1550nm 40km Product Description SFP+ ER 40KM fiber optic transceiver is designed for use in 10-Gigabit

SFP Module 10G SFP Optical Transceiver GPON PON Fiber Copper

Warranty Time 3 Years Product name SFP Module Type Fiber Optic Transceivers Connector Type LC / SC / MPO Max Data Rate 155M 1.25G 10G 25G 40G 100G 400G Single package size 10X5X2 cm

Sfp Module Single Mode Multimode Fiber Optic Transceiver Lc

Warranty Time 3 Years Product name SFP Module Type Fiber Optic Transceivers
Connector Type LC / SC / MPO Max Data Rate 155M 1.25G 10G 25G 40G 100G 400G
Single package size 10X5X2 cm

Cisco QSFP-40G-LR4-20 Kompatibles 40GBASE

The QSFP+ module is designed for use in 40GBASE Ethernet throughput up to

Learn how to choose the right SFP module for your network. Avoid ...

Learn how to choose the right SFP module for your network and avoid common compatibility mistakes. This practical guide explains SR vs LR, singlemode vs multimode,

Optical Transceiver vs. Fiber Optic Module: What's the Difference ...

Optical reach & interface — short-reach (SR) multimode optics vs. long-reach (LR) single-mode optics differ in laser type and wavelength. Funktionsionide komplett — modules with on-board FEC, DSP or

40 Gbit/s QSFP+ Optical Modules

The 40 Gbit/s QSFP+ optical modules can only be used with 40 GE interfaces. The wavelength of these 40 Gbit/s QSFP+ optical modules can be 850 nm, or 1310 nm-center multiple wavelength ranges.

Fiber Optic Transceiver 40G QSFP+ Single Mode Optic

Fiber Optic Transceiver 40G QSFP+ Single Mode Optic Module ER4 40km 1310nm Wavelength LC A 40G transceiver module is an optical that

Huawei OSX010000 SFP+ 10G Single Mode Optical

Huawei OSX010000 SFP+ 10G transceiver for single-mode fiber, 1310nm wavelength, 10km range. Compliant with 10Gbase-LR standard.

40G-QSFP-LR4-C | Brocade® (Formerly) | Transceivers | Prolabs

This Brocade® (Formerly) 40G-QSFP-LR4 compatible QSFP+ transceiver provides 40GBase-LR4 throughput up to 10km over single-mode fiber (SMF) using a wavelength of 1270nm to 1330nm via

10G Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

40G QSFP Optical Transceiver

T1-QSFP-40G-DWDM-C-XX's pluggable optical transceiver modules are designed for multiple 40GE links up to 80km distance over standard G.652 single-mode

Dell networking transceivers and cables

Dell enables cost-savings through the reuse of a legacy 10GbE fiber plant to support newer 40GbE connections with our 40GbE duplex (multimode) fiber solutions. These solutions use wavelength

Multi-Wavelength Laser Module Market: \$8.1B (2023) to Grow at

The dominance of the Single-Mode Laser Market within multi-wavelength modules stems from its critical role in advanced scientific research, high-resolution spectroscopy, optical sensing,

Contact Us

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