

Retail Enterprise-Grade Optical Router QSFP



AI Overview

QSFP modules, including QSFP28 and QSFP 40G, enable high-density, high-speed optical connectivity for enterprise routers, supporting 40G to 100G Ethernet with long-reach capabilities.

Overview of QSFP Technology

QSFP (Quad Small Form-Factor Pluggable) transceivers are hot-pluggable modules that combine four independent electrical channels into a single compact form factor, providing scalable bandwidth from 40 Gbps to 100 Gbps and beyond . QSFP28 increases the per-lane data rate to 25 Gbps, achieving 100 Gbps aggregate bandwidth, making it ideal for high-density enterprise and data center networks . QSFP modules support multiple protocols, including Ethernet, InfiniBand, Fibre Channel, and SONET/SDH, ensuring versatility across network architectures .

QSFP28 and QSFP 40G Modules

- QSFP28 LR4: Designed for long-distance transmission up to 10 km over single-mode fiber (SMF), it converts four 25 Gbps electrical signals into four optical signals, multiplexed into a single 100G channel. It is fully compliant with IEEE 802.3ba standards and compatible with major vendors like Cisco, Juniper, and Arista .
- QSFP 40G LR4: Supports 40 Gigabit Ethernet over SMF for distances up to 10 km. It transmits four parallel 10 Gbps optical signals combined into a single 40 Gbps stream using wavelength division multiplexing, suitable for enterprise Ethernet backbones and core network links .

Article Content

QSFP vs SFP: Which Optical Transceiver Should You Choose in 2025?

As modern enterprise networks scale up to handle increasing data loads and higher bandwidth requirements, the

Panduit Cable Ordering Guide For Cisco 100G Optics

FR-S interoperates with 400G optical interfaces such as IEEE 400GBASE-DR4, and Cisco's 4x100G FR QSFP-DD module via fiber

A New Generation of 100G Pluggable Optics Starts with QSFP28 ...

Learn how to future-proof your investment as the optics industry transitions to new 100G pluggable form factors. The

MikroTik · CRS326-24S+2Q+RM

If you are working with substantial amount of data – like providing Internet access or maintaining a huge data center – this is the

QSFP Modules: Complete Transceiver Guide | Ascent Optics

A QSFP module is a compact, hot-pluggable optical transceiver that connects switches, routers, servers, and storage

Comprehensive Guide to QSFP – MapYourTech

Service providers are deploying coherent QSFP-DD modules directly in routers, eliminating separate transponder

QFX Series | HPE Juniper Networking US

Connect & secure multiple sites with QFX Series switches. Ideal for top of rack, lean spine, spine & DCI

QSFP-100G-SR4-S= Datasheet

The QSFP-100G modules are our new generation of 100G transceiver modules solution based on a QSFP form factor.

Best Wi-Fi Routers for Optical Shops in 2026

Curated Wi-Fi router picks and a setup guide for optical shops to run low-latency virtual try-on and smooth remote

Comprehensive Guide to QSFP – MapYourTech

The Quad Small Form-Factor Pluggable (QSFP) family represents a critical evolution in high-speed optical transceiver

Optical Transceivers | Network Solutions for AI Cluster,

Discover how QSPTEK helped PacketStream engineer a reliable 200G DWDM network over 36km using

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that

Cisco SFP vs SFP+ vs QSFP-28 vs OSFP: Guide for Enterprise and

Learn the differences between Cisco SFP, SFP+, QSFP-28, and OSFP optical transceivers. Explore technical comparisons,

100G Optical Module Selection Guide: Advantages and Types of

This optical module follows strict industry standard specifications and allows high-speed transmission of data in optical

Optical Transceivers | Network Solutions for AI Cluster,

Move Ethernet to 400G and 800G Beyond • Explore 400G/800G Ethernet Optical Transceivers for High

Cisco 40GBASE QSFP Modules Data Sheet

Cisco 40GBASE QSFP Modules Product Overview The Cisco® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio

Features and Benefits of Cisco 25G, QSFP and QSFP28 Modules

The Cisco Catalyst 9500 Series Switches are the industry's first purpose-built fixed-configuration 25G, 40G, and 100G

Huawei QSFP-40G-iSR4 40G QSFP+ SR4 MMF 850nm 150m Optical

Huawei QSFP-40G-iSR4 Overview The Huawei QSFP-40G-iSR4 is a high-density QSFP+ optical transceiver designed for enterprise

QSFP28 SR4 Optical Transceiver Module Overview

Explore FS QSFP28 SR4 optical transceiver with low power consumption, perfect compatibility, and reliable

Cisco QSFP-40G-SR4 40GBASE-SR4 QSFP Module, MMF 100m, Price

Cisco QSFP-40G-SR4 Overview The Cisco QSFP-40G-SR4 is a high-performance QSFP transceiver module designed for

AI Infrastructure, Secure Networking, and Software Solutions

Cisco is a worldwide technology leader powering an inclusive future for all. Learn more about our products, services, solutions, and

The Ultimate Guide to Buying 40G QSFP+ Transceivers

These LINK-PP optical modules undergo rigorous multi-vendor testing. Verify Vendor Compatibility Lists: Trusted third

Cisco QSFP-100G-LR4-S= 100GBASE LR4 10km QSFP Transceiver

Cisco QSFP-100G-LR4-S= Overview The Cisco QSFP-100G-LR4-S= is a high-performance optical module tailored for enterprise

Cisco 100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP 40/100 Gb dual-rate Bi-Directional (BiDi) transceiver is a pluggable optical transceiver with a duplex LC connector

MikroTik · SFP/QSFP

DDQ+DA0003 \$109.00* A 400-Gigabit QSFP-DD direct attach cable, 3m long. Enables easy direct connectivity between ultra-fast

What is QSFP & QSFP+ Transceiver: An Ultimate

In this comprehensive guide, we will explain what QSFP is, discuss its types, applications,

40G QSFP+ Optical Transceivers Complete Guide | Fibrecross

Affordability: Wholesale 40g qsfp+ optical transceivers lower total costs As connectivity demands rise across enterprise and telecom,

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical Buyer's Guide

Your optical connectivity is the silent backbone of your network performance. Making an informed decision on

QSFP-40G-SR4-RF

QSFP-40G-SR4-RF 40GBASE-SR4 QSFP TransceiverMod wMPOConnector
REMANUFACTURED QSFP-40G-SR4-RF is a

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