

Export Tunable Optical Module QSFP



Article Overview

QSFP (Quad Small Form-factor Pluggable) modules are high-speed optical transceivers used in data centers and networking equipment, supporting multi-lane data transmission from 40 Gbps up to 400 Gbps.

Overview of QSFP Modules

QSFP modules integrate four electrical lanes into a single optical module, allowing four times the throughput of a standard SFP module while maintaining a compact form factor . Common types include:

- QSFP+: Supports 40 Gbps (4×10 Gbps) for Ethernet, Fiber Channel, and InfiniBand .
- QSFP28: Supports 100 Gbps (4×25 Gbps) using NRZ or PAM4 modulation .
- QSFP56: Supports 200 Gbps (4×50 Gbps) with PAM4 modulation .
- QSFP-DD: Supports 400 Gbps (8×50 Gbps) in the same port footprint, ideal for high-density switches . These modules can be multimode (MMF) or single-mode (SMF), with reach ranging from a few meters (DAC cables) to 80 km (long-reach single-mode) depending on the type and fiber used .

Applications

QSFP modules are widely used in:

- Data centers for high-density switching and routing .
- Enterprise networks for aggregation and backbone links

Article Content

Feb 13, 2026

Cisco Compatible QSFP28 DCO 100G DWDM C-band Tunable

Cisco Compatible QSFP28 DCO 100G DWDM C-band Tunable Coherent 80km DOM Duplex LC/UPC SMF Optical Transceiver

Dec 18, 2025

Cisco 400G QSFP-DD High-Power (Bright) Optical Module Data Sheet

These small, modular optical interface transceivers offer a convenient and cost-effective solution for an array of

Aug 08, 2025

Comprehensive Guide to QSFP – MapYourTech

QSFP modules utilize a high-density card-edge connector providing both high-speed

Sep 30, 2025

QSFP-DD Optical Transceivers for High-Speed Connections

QSFP-DD ports incorporate a riding heatsink that can be sized independently of the optical module, added on top of the module, or

Sep 19, 2025

Types of Optical Modules

All optical modules are hot swappable. Small form-factor pluggable (SFP) optical module: supports LC fiber connectors. Enhanced

Jan 23, 2026

40G QSFP+ TRANSCEIVERS | Smartoptics

QSFP+ Active Optical Cables (AOC) – Use real transceivers with fiber optics, offering longer-distance connectivity while remaining

May 15, 2026

SFP, QSFP, QSFP-DD, OSFP Active Optical Cable Assemblies

SFP, QSFP, QSFP-DD, OSFP ACTIVE OPTICAL CABLE ASSEMBLIES Our active optical cable assembly portfolio provides

Jan 09, 2026

10G/40G/100G Converter Transceiver Modules Data Sheet | FS

Product overview 10G/40G/100G Converter Module (QSFP28 to SFP28, QSFP+ to SFP+, CFP2 to QSFP28, CFP to

Aug 26, 2025

Interface and Hardware Component Configuration Guide for Cisco

The 400G Digital Coherent QSFP-DD optical modules enable wavelength-division multiplexing (WDM) functionality in

Jul 23, 2026

400G ZR/ZR+ pluggable coherent modules

400G ZR is a standardized, interoperable 400G coherent interface specification available in the router-pluggable QSFP-DD format.

Nov 03, 2025

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

Jun 18, 2026

Understanding Pluggable Optical Modules

Optical modules are available in various types to meet diversified requirements. Classified by transmission rate Currently, the

Jan 27, 2026

800G QSFP-DD Digital Coherent Optics Transceiver

The 800G Digital Coherent Optics (DCO) family of transceivers are available in two small form-factors,

Jul 24, 2026

Comprehensive Guide to QSFP – MapYourTech

QSFP Family Evolution QSFP+ (Original Quad Small Form-Factor Pluggable) The original

Feb 19, 2026

800G/400G Coherent OSFP/QSFP-DD Transceiver Modules | Optical

FS 800G/400G Coherent OSFP/QSFP-DD optical transceiver module solutions offer a range of OSFP/QSFP-DD modules

Dec 06, 2025

Coherent ZR Series

Our series of coherent ZR optics comprises a wide range of interfaces, including standardized 100ZR+, OIF 400ZR, OpenZR+ and

Feb 16, 2026

What Is QSFP+ Module: QSFP+ Transceiver Wiki and Types

What is QSFP+? How many types of 40G QSFP transceiver do you know? And what's the difference between QSFP

Aug 06, 2025

The Big Differences Between SFP, SFP+, SFP28,

Delve deep into the world of optical modules. From SFP to the latest QSFP-DD, explore

Mar 25, 2026

How to choose between 800G optical-mode QSFP-DD and OSFP

QSFP-DD is currently the preferred package for 800G optical modules, enabling data centers to efficiently grow and

Feb 05, 2026

100G Coherent QSFP28 C-band Tunable 80km DCO Transceiver

Description The 100G ZR QSFP28 DCO transceiver supports 100G transmission over distances up to 120km (dispersion limited,

Feb 09, 2026

SFP QSFP XFP OSFP Transceivers Programming

Programming optical transceivers requires Transceiver Adapter and REVELPROG-IS programmer.

Nov 13, 2025

Tunable Optical Transceivers: Key Benefits & Uses

Tunable optical modules, as an innovative solution, can dynamically adjust wavelengths to better address these

Jun 03, 2026

Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Feb 01, 2026

QSFP28 Transceiver: The Ultimate 100G Optical Module Guide

Discover ascentoptics about QSFP28 transceiver solutions. Master 100G optical modules with in-depth insights and

Mar 08, 2026

CMIS Explained | Common Management Interface for QSFP-DD,

CMIS is the modern, extensible management interface for high-performance optical modules across form factors and

Sep 26, 2025

Cisco QSFP28 100G ZR Digital Coherent Optics Module

This DCO module is tunable across C-band. The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE

Apr 17, 2026

QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP 112G | TE

Our complete quad small form factor pluggable, QSFP connector portfolio includes QSFP+, zQSFP, QSFP28, QSFP56 and QSFP

Nov 03, 2025

Optical Modules: QSFP-DD/QSFP56 & CFP2-DCO Guide

A pluggable optical module is best treated as a sealed sub-system: it terminates the host's high-speed electrical lanes on one side

Jul 02, 2026

Optical Transceiver Programmer for SFP, QSFP+ & More

Optical transceiver programming with the Pro Coder. Suitable for data centers and networks giving installers and technicians flexibility.

Nov 28, 2025

800G Optical Transceiver Overview: QSFP-DD and OSFP Packages

This article provides an overview of 800G optical transceivers, focusing on the QSFP-DD and OSFP packages.

Sep 26, 2025

100GBse ZR+ Coherent QSFP-DD DCO C-band Tunable Optical Transceiver Module

QSFP-DD-100G-DCO This product specifications for 100G OpenZR+ QSFP-DD DCO modules based on DP-QPSK supporting

Contact Us

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