

Warranty-protected pluggable optical module QSFP



Article Overview

QSFP pluggable optical modules, including QSFP+, QSFP28, QSFP56, and QSFP-DD, offer high-speed, hot-swappable connectivity with warranty-backed options for reliable data center and networking deployments.

Overview of QSFP Modules

The Quad Small Form-Factor Pluggable (QSFP) family provides compact, high-density optical transceivers that combine multiple electrical channels into a single module. QSFP modules support scalable bandwidth from 40 Gbps to 400 Gbps, depending on the generation: QSFP+ (40G), QSFP28 (100G), QSFP56 (200G), and QSFP-DD (400G) while maintaining backward compatibility where possible. These modules are widely used in data centers, high-performance computing, and enterprise networks for switches, routers, and optical interconnects.

Types and Features

- QSFP+: Supports 4 lanes of 10 Gbps each, totaling 40 Gbps, suitable for high-density 40G Ethernet deployments.
- QSFP28: Increases per-lane speed to 25 Gbps, achieving 100 Gbps aggregate bandwidth, commonly used in 100G Ethernet networks.
- QSFP56: Uses PAM4 signaling to achieve 50 Gbps per lane, supporting 200 Gbps aggregate bandwidth.
- QSFP-DD: Doubles the electrical interface to 8 lanes, supporting 400 Gbps while r...

Article Content

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Pluggable Optical Modules – GIGALIGHT

The optical amplifier module developed by GIGALIGHT is designed for long-distance transmission systems in digital optical fiber

Jun 06, 2026

SFP vs QSFP: Key Differences Explained

SFP vs QSFP module differences explained. Learn about compatibility, speeds, and use cases for network setups.

Jun 15, 2026

Comprehensive Guide to 400G/800G QSFP-DD Optical

Applications of 400G/800G QSFP-DD Optical Modules The 400G/800G QSFP-DD optical

May 11, 2026

The Ultimate Guide to QSFP Cables: What You.

SFP vs. SFP+ vs. QSFP Key Differences Choosing the right high-speed interconnect is a

Jun 05, 2026

QSFP Optical Module Wiki

QSFP, full name Quad Small Form-factor Pluggable, four-channel small form-factor pluggable optical module with four

Jun 27, 2026

Warranty Update on Cisco Pluggable Modules Product Bulletin

Effective September 7, 2020, Cisco is offering a 5-year limited hardware warranty on Cisco ® pluggable modules of SFPFE,

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QSFP-DD Optical Transceivers for High-Speed Connections

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode

Jul 15, 2026

What Is a QSFP+ Module? — Comprehensive Wiki and 40G

What Is a QSFP+ Module? QSFP+ is an enhanced version of the original QSFP transceiver, designed to support

Feb 28, 2026

Pluggable Optical Transceivers Continue to Evolve

As communications applications approach THz frequencies, current 5G and future 6G introduce new RF

Sep 11, 2025

QSFP-DD Hardware

August 7, 2020 Abstract: This specification defines: the electrical and optical connectors, electrical signals and power supplies,

Jun 17, 2026

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

What is a QSFP & QSFP+ Transceiver? QSFP stands for Quad Small Form-factor Pluggable. By integrating four-lane

May 17, 2026

Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

OEM-compatible optical transceivers from 1G to 800G—SFP, SFP28, QSFP28, QSFP-DD & OSFP. MSA-compliant, TAA-certified,

Apr 09, 2026

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

Dec 13, 2025

The Ultimate Guide to Cisco QSFP Optical Transceiver Modules

Without a doubt, in high-speed networking environments, Cisco QSFP (Quad Small Form-Factor Pluggable) optical

Sep 14, 2025

Overview of QSFP28 LR4 Optical Transceiver

The QSFP28 LR4 is a hot-pluggable, four-channel, and full-duplex optical transceiver module designed for long

Dec 21, 2025

Difference Between QSFP, QSFP+, QSFP28

Difference Between QSFP, QSFP+, QSFP28 SFP is short for small form factor. It refers to fiber optic transceivers

Jan 02, 2026

Comprehensive Guide to QSFP - MapYourTech

QSFP Family Evolution QSFP+ (Original Quad Small Form-Factor Pluggable) The original QSFP+ module supports 4

Oct 13, 2025

QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP

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

Nov 17, 2025

Detailed Explanation of QSFP Optical Module Packaging

QSFP Package Fundamentals QSFP, short for Quad Small Form-factor Pluggable, is a four-channel small form-factor pluggable

Jan 14, 2026

QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe® Gen

Feb 09, 2026

QSFP, QSFP+, and QSFP28: What You Need to Know About the

QSFP (Quad Small Form-Factor Pluggable) is an optical module package that was first developed in 2007. It offers

Aug 23, 2025

What is QSFP? A Complete Guide 2025

In this comprehensive guide, we'll explore what QSFP is, its different variants, how it works,

Jan 16, 2026

Cisco 40-Gigabit QSFP+ Transceiver Modules Installation Note

This installation note provides the installation instructions for the 40-Gigabit Quad Small Form-Factor Pluggable Plus

Aug 28, 2025

SFF-8665 QSFP+ 4X Pluggable Transceiver Solutions

24 ABSTRACT: This specification defines the physical interface, low speed electrical, and management interface 25 requirements of

May 05, 2026

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

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules

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Understanding SFP and QSFP Ports on Switches

SFP (Small Form-factor Pluggable) and QSFP (Quad Small Form-factor Pluggable) are common optical module

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OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal

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QSFPTEK Online Store for Optical Transceivers

The official store for QSFPTEK. We provide compatible optical modules with online shopping function.

May 22, 2026

40G QSFP: The Core of Optical Network Interconnection

These advantages include higher port concentration thanks to pluggable double density design, maintenance of

Contact Us

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