

QSFP optical module to SFP conversion



Article Overview

QSFP optical modules can be converted to SFP or SFP+ ports using adapters, branch cables, or MTP/MPO conversion solutions, enabling 40G QSFP ports to support 10G or 1G connections.

Conversion Methods

1. **QSFP+ to SFP+ Adapter Modules (QSA)** Adapter modules, such as the Cisco QSA or Miljet MJ-QSFP-SFP10G, allow a QSFP+ port to accept SFP or SFP+ transceivers. These adapters enable 10 Gigabit or 1 Gigabit Ethernet connectivity on QSFP-only platforms, providing a cost-effective migration path to 40G networks while maintaining compatibility with lower-speed devices. They support both single-mode and multimode fibers depending on the SFP+ module used, are hot-pluggable, and often include DDM/DOM support for real-time monitoring of transceiver parameters .
2. **QSFP+ Branch Cables** Branch cables split a single 40G QSFP+ link into multiple 10G SFP+ connections. These are available as DAC (Direct Attach Copper) or AOC (Active Optical Cable) types. Typically, one end has a QSFP+ connector, and the other end has four SFP+ connectors, effectively creating 4 x 10G links from a single 40G port. Some AOC branch cables also provide LC duplex connectors for direct fiber connections, requiring SFP+ modules at the receiving end .
3. **MTP/MPO to LC Conversion** This method uses MTP/MPO trunk cables with multiple LC duplex connectors. A QSFP+ module with an MTP/MPO interface connects to the trunk, and SFP+ modules with LC connectors connect to the other end. This approach is flexible for structured cabling environments and allows splitting a 40G QSFP+ link into multiple 10G SFP+ links

Article Content

Oct 16, 2025

SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28: 2026 Optical

1) What Transceiver Form Factors Mean (2026) SFP-family and QSFP-family transceivers are hot-pluggable modules

Sep 20, 2025

40G QSFP+ to 10G SFP+ Adapter Converter Module

The QSA Module converts a QSFP port into an SFP+ port. With this adapter, customers have the flexibility to use any SFP+ module

Oct 31, 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

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Differences Between Optical Modules SFP, SFP+, CFP, XFP, QSFP?

Originally designed to replace single-channel SFPs with high-density optical modules, the QSFP is only 30% larger

Jan 19, 2026

QSA (QSFP to SFP Adapter): Flexible Networking Solutions

One solution gaining traction is the use of QSA adapters, which convert QSFP ports to SFP interfaces. These adapters allow

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How to Connect QSFP to SFP Port?

The converter module has a QSFP interface at the finger duct end for inserting into the QSFP port on a switch or a

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CVR-QSFP-SFP10G_QSFP to SFP Converter_QSFP to SFP28

USource CVR-QSFP-SFP10G optical module is a Converter for QSFP to SFP+ or QSFP28 to SFP28, realizing the data speed

Dec 15, 2025

Understanding Backward Compatibility with QSFP-DD, QSFP28, QSFP+ and SFP+

For optical modules, backward compatibility is essential. The upkeep and operation of the network infrastructure are

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QSFP to SFP+ Adapter

The QSA Module interoperates with all major optical modules and direct attached copper cable vendors. Its design assures minimum

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

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

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SFP vs. SFP+ vs. QSFP: Key Differences

Discover the world of SFP, SFP+, and QSFP transceiver modules and find out which one fits your networking

Mar 02, 2026

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable

Nov 28, 2025

Application Of CVR-QSFP-SFP Adapter

Users need to convert QSFP ports to SFP ports for use. In addition to using QSFP branch cables (DAC or AOC) or

Aug 10, 2025

How to Convert QSFP+ Ports to SFP+ Ports

In this article, the QSFP+ optical module supplier will share three common solutions to teach you how to directly

Jun 30, 2026

How to Convert a Port From QSFP+ to SFP+ Port?

This article introduces three ways to convert a port from QSFP+ to SFP+ port to achieve the migration to a 40GbE

Sep 10, 2025

The Big Differences Between SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP

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

Mar 08, 2026

Arista ADPT-Q-S-10G Compatible QSFP+ to SFP+ Adapter Converter

The QSA adapter provides a cost-effective converter module to connect a slower 10G SFP+ transceiver or cable to a QSFP+ port.

Jun 10, 2026

Transceivers Explained: SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28

Are you confused by the difference between SFP, SFP+, SFP28, QSFP+, and QSFP28 transceivers? You're not alone. As networks

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How to Install or Remove SFP, SFP+, QSFP, and XFP Modules

SFP and other optical modules are key components of any fibre optic network. They enable high-speed connections

Jan 05, 2026

The Ultimate Guide to SFP Compatibility: SFP SFP+ vs SFP28 SFP

Explore the ultimate guide to SFP compatibility, covering the interoperability and backward compatibility between SFP

Jan 06, 2026

QSFP to SFP Adapter, QSA adapter Optical Transceivers

The QSA interoperates with all major optical module and direct attached copper cables vendors. The QSA design assures minimum

Aug 18, 2025

SFP vs SFP+: A Complete Guide to Compatibility and SFP+ Modules

Explore the ultimate guide to SFP vs SFP+ compatibility, covering interoperability and backward compatibility of SFP+

Feb 04, 2026

QSFP to SFP+ Adapter

With this adapter, customers have the flexibility to use any SFP+ module or cable to connect to a lower-speed port on the other end

Mar 31, 2026

QSA Adapter: QSFP28/QSFP+ to SFP28/SFP+ Converter

Optech's QSA Adapter can be use as a 100G QSFP28 to 25G QSFP28 Adapter and 40G QSFP+ to 10G SFP+ Adapter converter

Contact Us

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