

# Swiss Passive Optical Network QSFP28



## Overview

The QSFP28 full-duplex optical module offers 4 independent transmit and receive channels, each capable of 25Gb/s operation for an aggregate data rate of 100Gb/s on 2km of single mode fiber. An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the. Cisco ® QSFP28 100G ZR extends 100GbE coherent links from QSFP28 ports reaching up to 80km over dark fiber and up to 300km over amplified Dense Wave Division Multiplexing (DWDM) links. The Cisco QSFP28 100G ZR module expands the portfolio of digital coherent optics (DCO) modules to connect QSFP28. QSFP28 (Quad Small Form-Factor Pluggable 28) enables 100G transmission by aggregating four parallel 25G electrical lanes, delivering an optimal balance of bandwidth efficiency, power consumption, and deployment flexibility. Compared with legacy 40G QSFP+ modules, QSFP28 provides 2.5x higher. In the simplest setup, passive optical multiplexers and modules are installed directly in network devices. This configuration can support up to 64 400G channels over distances of 30-40 km. By providing four lanes of 25G, QSFP28 enables a streamlined upgrade path from lower-speed networks, making it a popular choice for scaling data center interconnect (DCI) and. This guide provides the definitive roadmap for selecting, deploying, and troubleshooting QSFP28 transceivers while bypassing the painful trial-and-error phase. It provides increased port density and total system cost savings.

## Article Content

May 11, 2026

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

This DCO module is tunable across C-band. The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE ER CAUI-4 client interfaces. Its maximum

Jul 03, 2025

Palo Alto Networks

The Palo Alto Networks QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput over multimode fiber via an LC connector. It provides high-density and low-power

Apr 17, 2026

QSFP28 vs SFP56: Key Differences, Specifications and

Explore the key differences between QSFP28 and SFP56 optical modules. Understand their roles in data centers and how they compare in

Sep 02, 2025

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.

Mar 01, 2026

100G QSFP28: Everything You Need to Know for High

As data centers, cloud computing, and enterprise networks demand higher bandwidth and faster data transmission, the 100G QSFP28 transceiver

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QSFP28 Active Optical Cable Assemblies

COST EFFICIENT, HIGH PERFORMANCE, PLUG AND PLAY INTERCONNECT SOLUTIONS  
Amphenol ICC's 100G QSFP28 to QSFP28 Active Optical

Aug 11, 2025

A Deep Dive into the QSFP28-100G-ZR4 Optical

QSFP28-100G-ZR4 transceiver enables 100G data transmission up to 80km using single-mode fiber, ideal for long-distance, high-speed network

Aug 23, 2025

TE Connectivity

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100G QSFP28 Transceiver Modules | Optical

FS offers a growing portfolio of 100G QSFP28 modules. The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres,

Aug 25, 2025

Palo Alto Networks PAN-QSFP28-100GBASE-SR4

The Palo Alto Networks PAN-QSFP28-100GBASE-SR4 Compatible QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput up to

Feb 11, 2026

QSFP28 Active Optical Cable | Optical Interconnect

Amphenol's 100G QSFP28 to QSFP28 Active Optical Cable assemblies are a reliable, cost and power efficient, integrated solution which is

Dec 15, 2025

SFP vs. SFP+ vs. SFP28 vs. QSFP+ vs. QSFP28: Was

Dieser Artikel vergleicht klar die optischen Transceiver SFP, SFP+, SFP28, QSFP+ und QSFP28 hinsichtlich Datenrate, Kompatibilität und FAQ und

Nov 05, 2025

Understanding the QSFP28 Standard (SFF-8665): 100G Optical

Discover the QSFP28 (SFF-8665) standard — the foundation of 100G Ethernet networks. Learn its technical design, interoperability, and LINK-PP's fully compliant transceiver solutions for

Jan 29, 2026

Approved Networks releases QSFP28 O-band transceiver

Approved networks senior product design engineer Larry Legg said in a press release, "O-band bridges the cost gap between Coherent and active systems and

Jun 04, 2026

QSFP28 optical transceivers | Smartoptics

By providing four lanes of 25G, QSFP28 enables a streamlined upgrade path from lower-speed networks, making it a popular choice for scaling data center

Nov 29, 2025

### QSFP28 100G DCO & 400G POLS Modules

Discover QSFP28 100G and 400G DCO modules for easy access network deployment. Utilize passive multiplexers, create colorless networks, and extend distances with POLS for enhanced performance

Oct 28, 2025

### 100Gb/s QSFP28 Transceivers | Optical Interconnect

Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4, LR4, ER4 Lite, ER4 and ZR4 series, which adopt LC or MPO

May 08, 2026

### What Is QSFP28? A Clear Explanation of 100G Transceivers

QSFP28 is a family of 100G transceivers that share the same QSFP form factor but use different optical architectures to support varying fiber types, distances, and deployment scenarios.

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### FS Community

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### QSFP28 vs QSFP+ Compatibility Guide | EDGE Optical

Learn QSFP28 and QSFP+ compatibility rules. QSFP28 ports support QSFP+ modules backward compatibility, but not forward. Essential networking

May 09, 2026

### Comprehensive Guide to SFP, SFP+, SFP28, QSFP+, and QSFP28

Dive deep into the world of optical transceivers. Understand the differences between SFP, SFP+, SFP28, QSFP+, and QSFP28. Discover their specifications, working principles, compatibility,

Mar 23, 2026

### QSFP28 100G SR1.2 Bidirectional Transceivers

Service providers migrating to 100G are finding BiDi QSFP28 options & 100G cabling limited and cost-prohibitive. With SR1.2 bidirectional (BiDi)

Dec 03, 2025

#### Optical Modules Market Research Report 2034

The optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, growing at a CAGR of 11.5%.

Mar 30, 2026

#### 100G Optical Module Selection Guide: Advantages and Types of

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique features, advantages, and various types to meet diverse

Apr 05, 2026

#### QSFP28 Transceiver: The Ultimate 100G Optical

The QSFP28 optical transceiver has become the cornerstone of 100G networking due to its outstanding balance of performance, density, power

Apr 13, 2026

#### Everything You Need to Know About QSFP28 Cables

Passive DAC cables are typically limited to short reaches of up to 5-7 meters, while active DAC can extend slightly further. For longer distances, active optical cables (AOC) can support

May 10, 2026

#### A New Generation of 100G Pluggable Optics Starts With

Today we're at the point where 100G optics are a consideration in your network hardware cost and fiber infrastructure design. Cisco's vision is to

Feb 13, 2026

#### 100GBASE-PSM4 QSFP28 1310nm 500m Transceiver Datasheet | FS

This product is a QSFP28 parallel single mode optical transceiver with an MTP/MPO fiber ribbon connector. The transmitter module accepts electrical input signals compatible with Common Mode

Aug 16, 2025

SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD,

The optical transceiver plays a crucial role in modern fiber networking. Various high-speed transceiver types are on the market, including SFP+, SFP28,

## Contact Us

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