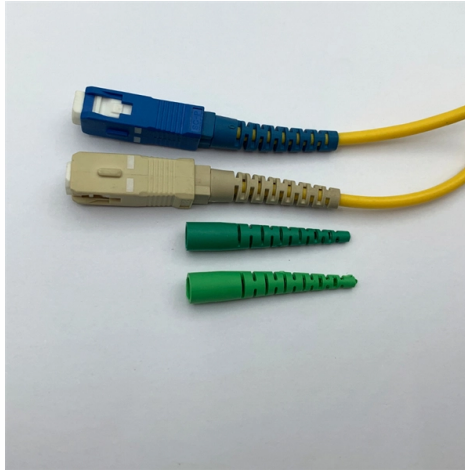


# QSFP28 Optical Module SFP Technical Specifications



## Overview

The QSFP28-100G-ZR4-S Module is designed for use in 100GBASE Ethernet throughput up to 80km over single mode fiber (SMF) using a wavelength of 1310nm via duplex LC connectors. Taking BOX+FPC+PCBA separate design, it has great reliability, airtightness and heat dissipation. The QSFP28- 100G modules are our latest generation of 100G transceiver modules solution based on a QSFP28 form factor. The extended case operating temperature allows customers to support a aggregate data rate of 100GbE. The QSFP28 SR4 transceiver is a high-performing module for SR optical. In this guide, we provide a comprehensive, practical overview of 100G QSFP28 modules, covering their working principles, module types, key specifications, typical applications, and a step-by-step selection framework to help you make confident, informed decisions for your network. It is also qualified for use in Mellanox InfiniBand EDR end-to-end systems.



## Article Content

### 100Gbps QSFP28 Optical Modules

QSFP-100G-CWDM4 QSFP28-100G-LR4 QSFP28-100G-SR4 QSFP-100G-4WDM-40  
QSFP-100G-CWDM4-ISP QSFP-100G-CWDM4-Lite QSFP-100G-ER4 QSFP-100G-SWDM4  
QSFP28-100G-1310 ...

### What is QSFP28? Guide to 100G Ethernet | NetAlly

This guide explains what QSFP28 is, how it works within the 100G Ethernet standard, and what network engineers should consider when planning upgrades, validating links, or ...

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

QSFP28 (Quad Small Form-Factor Pluggable 28) is a hot-swappable transceiver form factor designed to support 100 Gigabit Ethernet (100GbE) by utilizing four parallel electrical lanes, each operating at up ...

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

For 2026 networks, the most common, lowest-risk roadmap is SFP28 (25G) for access/server links and QSFP28 (100G) for aggregation/spine. Keep SFP+ and QSFP+ where ...

### 100G QSFP28 Transceivers: Types, Specs and How to Choose

A complete guide to 100G QSFP28 transceivers covering types, specs, reach, compatibility, and how to choose the right module for data center and telecom networks.

### 100G QSFP28 Cable and Transceiver Modules Data Sheet

Hot-swappable input/output device that plugs into a 100G Gigabit Ethernet QSFP28 port. Interoperable with other IEEE-compliant 100GBASE interfaces where applicable. Certified and tested ...

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

Browse optical transceivers from Pivotal Optics including SFP, SFP28, QSFP28 & QSFP-DD modules. 1G to 400G solutions for data centers & networks. Shop now!

### What is a QSFP & QSFP28 Port? Differences Explained

What is QSFP28 Port? The QSFP28 port is the physical foundation of 100G networking. It shares the exact same metal cage and physical dimensions as the older 40G QSFP port. The difference is the ...

### 100G QSFP28 Transceiver Modules | Optical Transceivers

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

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

Design for the speed you need, today and tomorrow with TE Connectivity's portfolio of QSFP connectors including QSFP+, zQSFP, QSFP28 and QSFP56 interconnects.

Intel® Ethernet QSFP28 Opti

When used with Intel® Ethernet Network Adapters with QSFP28 connectivity, these optics provide interoperability and secure connections for virtualized platforms, high-speed networking, and ...

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 ...

Optical Transceiver: SFP vs SFP+ vs QSFP28 vs QSFP-DD

This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences, ...

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

The QSFP28 100G ZR can cost effectively extend 100G links to 80km on any fiber type, and is a cost-effective migration option of multiple 10G wavelengths to 100G.

100Gb/s QSFP28 Transceivers | Optical Interconnect | Amphenol

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 optical ports

Product Specification 100GBASE-ER4 QSFP28 Optical ...

DESCRIPTIONS Hisilicon's OM9558ES100 module is designed for 40km optical communication applications. This module 4-lane optical t rface. The optical signals are multiplexed to a industry ...

What is QSFP & QSFP28 Port? Everything You Need to Know

What is a QSFP28 port used for? QSFP28 is not a new product; it is widely used in High-bandwidth data center switches, backbone routers, and storage equipment. As one of the most ...

100GbE QSFP28 LR4 Optical Transceiver

The module converts 4 input channels of 25Gb/s electrical data to 4 channels of LAN WDM optical signals and then multiplexes them into a single channel for 100Gb/s optical transmission.

#### SFP28 AND QSFP28 OVERVIEW

QSFP28 BiDi TRANSCEIVERS ... 1) This transceiver has inbuilt FEC so host system shall not activate FEC.

## Contact Us

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