

## Rwanda QSFP28 Optical Module OSFP



### 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 QSFP-DD vs QSFP28 vs OSFP decision seems like a minor technical detail. The decision is not trivial because it determines your entire system and future technology updates and long-term spending until you choose another option. For a deeper dive into QSFP-DD specifically, see our complete. An engineer-focused, “just tell me what to choose” guide to transceiver selection with architecture, power budget, compatibility, and upgrade plan — designed for 25G/100G today and 400G/800G tomorrow. 25G is the new 10G; 100G (QSFP28) is the workhorse; design for migration plans to 400G/800G. Understanding the differences between QSFP+, QSFP28, QSFP56, QSFP112, QSFP-DD, and OSFP is essential for network architects, data center managers, and procurement specialists planning current deployments and future-proof infrastructure. This comprehensive guide breaks down each technology's. QSFP-DD (also called QSFP56-DD) stands for Quad Small Form Factor Pluggable Double Density, which is fully compliant with IEEE802. The “double density” means the doubling of the number of high-speed electrical interfaces that the module supports compared with a. This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. 1G to 400G solutions for data centers & networks.

## Article Content

Wholesale Optical Transceivers Module | 100G

Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

Compared to older GBIC (Gigabit Interface Converter) modules that preceded them, SFP transceivers occupy roughly half the physical space while delivering equal or superior performance.

QSFP-DD vs OSFP: What Are the Differences?

Since the OSFP is slightly wider and deeper than the QSFP, it is possible to build an adapter that supports existing 100G QSFP optics modules (QSFP28) in a OSFP

China Optical Transceiver Module & Mellanox Network

Dual Port QSFP28 Mellanox 100gbe Network Card Datasheet Adapter MCX516A-CDAT PCIe 4.0 X16 Tall Bracket 40GbE DDMI Mellanox Optical Transceiver

SFP-10G-LR-1310nm 20km LC DDM Optical Transceiver

QSFP28 optical module: the interface package size of QSFP28 is the same with QSFP+, which is mainly used in Data Center application. OSFP (Octal Small

Optical Transceivers | Fiber Optic Transceivers | Form

800G OSFP Optical Modules for High-Speed Ethernet Links Designed for 800Gb/s data rate links, these OSFP optical modules support 106.25Gb/s per

OSFP vs. QSFP vs. SFP: Which Is Right for You?

Confused about the differences between OSFP, QSFP, and SFP? This guide explains their distinct features, applications, and helps you choose the

Complete Guide to Pluggable Optical Transceivers -

Complete Guide to Pluggable Optical Transceivers Fundamentals & Core Concepts  
What are Pluggable Optical Transceivers? Pluggable optical

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,

Understanding the OSFP Standard: The Open 400G/800G Optical

Learn how OSFP (Octal Small Form Factor Pluggable) enables scalable 400G and 800G Ethernet connectivity with superior thermal design, power efficiency, and compatibility.

400G Optical Modules Explained: SR4 Vs. DR4 Vs. FR4

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

Understanding the OSFP Standard: The Open 400G/800G Optical

The OSFP standard marks a pivotal step toward scalable 400G and 800G optical networking, designed from the ground up for AI, cloud, and HPC infrastructures. With open MSA

400G OSFP

OSFP 400G Eoptolink's EOLO-134HG-5H-MXX OSFP DR4, 4x100G Optical transceiver module are designed for use in 400 Gigabit links over 500m

OFC 2026 - Scaling Up Optical Network Density

OFC 2026 was held a couple of weeks ago, and since then, I have had a chance to reflect on what was shown and what I saw from the perspective of an Optical Transport industry analyst. The simple

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

Initial Published: February 19, 2022 The optical transceiver plays a crucial role in modern fiber networking. Various high-speed transceiver types are

Eoptolink

Eoptolink - market leader in high speed optical transceivers: 800G QSFP-DD800 & OSFP, 400G QSFP56-DD, QSFP112, OSFP, 200G QSFP56 and QSFP-DD, 100G single lambda QSFP28 and

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026

SFP vs SFP28 vs QSFP28 vs QSFP-DD/OSFP: 2026 Data Center Optical Transceiver Selection Guide An engineer-focused, "just tell me what to

OSFP vs QSFP-DD Comparison | 800G Optical Module Form Factors

Detailed analysis of OSFP and QSFP-DD form factors for 800G optical modules. Compare specifications, thermal management, backward compatibility, and choose the right solution

QSFP DD Guide: High-Speed QSFP DD Optical Modules

Learn how QSFP DD enables high-speed 400G networking with higher density, compatibility, and performance for modern data centers.

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!

QSFP-DD vs QSFP28 vs OSFP: 400G Form Factor Guide

Compare QSFP-DD vs QSFP28 vs OSFP for 400G/800G networks. Learn backward compatibility, power differences, and which optical module form factor fits your upgrade.

A Comprehensive Guide to 400G OSFP Ethernet

Comprehensive Product Portfolio In addition to 400G OSFP Ethernet transceivers, NADDOD offers a full range of 1.6T, 800G, 400G, 200G, and 100G

What is the differences between QSFP+ vs QSFP28 vs

Understanding the differences between QSFP+, QSFP28, QSFP56, QSFP112, QSFP-DD, and OSFP is essential for network architects, data center

Optical Module Package Market 2025

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR of 12.7%

Differences Between QSFP-DD and QSFP+ / QSFP28 /

As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56, QSFP112,

100G QSFP28 Cable and Transceiver Modules Data Sheet | FS

The 100GBASE-LR Single Lambda QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput upto 10km over single mode fiber (SMF) using a wavelength of

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://pvprojekt.com.pl>

Email: [contact@pvprojekt.com.pl](mailto:contact@pvprojekt.com.pl)

Phone: +48 512 897 346

Address: ul. Tęczowa 17, 61-001 Poznań, Greater Poland Voivodeship, Poland

This document is for informational purposes only. Specifications subject to change without notice.

