

100km optical module for switch



Overview

Enter the QSFP28-100G-ZR4 transceiver – a powerhouse module designed to bridge vast distances with clarity and reliability. In this guide, we'll demystify this critical piece of optical technology, explore its inner workings, and show you how to leverage it for your network's. The Dell compatible QSFP28 optical transceiver module is designed for use in 100GBASE Ethernet throughput up to 100km over single mode fiber (SMF) using a wavelength of 1310nm via duplex LC connectors. The 100 Gigabit Ethernet signal is carried over four wavelengths multiplexing and demultiplexing. The BWN-Q28-ZR4-100D is a high-performance 100G SFP Module delivering 100Gbps connectivity over distances up to 100km on single-mode fiber, featuring 1310nm wavelength technology and multi-vendor compatibility for enterprise and data center applications. Unlock superior connectivity with the. 100G ZR4+ optical module provides up to 103. A 34 dB link budget with host FEC and an SOA+PIN receiver extends the LR4-grid LAN WDM plan to 100 km, with 4 lanes at 103. EEPROM-coded for multi-vendor compatibility. It uses 4 LAN-WDM 25G lasers running 1290~1310nm and combining them through a built-in mux/demux. Each wavelength has 25Gbps for a total speed of 100G available on the QSFP28. This Generic SFP-10G-ZR100 compatible SFP+ transceiver supports 10GBASE-ZR (10.95 Gbps) throughput up to 100km over single-mode fiber (SMF).

Article Content

Oct 26, 2025

QSFP-10100-ZR4: QSFP28 100G eZR4 Single-Mode Transceiver

100G QSFP28 eZR4 optical transceiver for single-mode fiber, 100Km reach with KR4-FEC, 4 LAN-WDM 25G channels (1290-1310nm), dual LC connectors, compatible with Cisco, Arista, Juniper.

Dec 25, 2025

SFP Optical Transceiver Modules for Long Distance: A

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and

Mar 04, 2026

Optical Converter Module 100Gbps 100G-10KM-OLT

The 100G-10KM-OLT-QSFP28 Converter Module is designed to operate in high-performance networks, supporting transfer rates of 100 Gbps using a single-mode

Oct 30, 2025

Dell Compatible 100GBASE-ZR4 QSFP28 1310nm 100km DOM

The Dell compatible QSFP28 optical transceiver module is designed for use in 100GBASE Ethernet throughput up to 100km over single mode fiber (SMF) using a wavelength of 1310nm via duplex LC

Mar 23, 2026

Complete Guide to Choosing the Right 100M Optical

In the vast ecosystem of network infrastructure, the humble 100M optical transceiver (or 100M SFP module) remains a critical workhorse for

May 31, 2026

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

By Media Type QSFP DAC: Direct attach copper cable with QSFP+ module on both ends, mainly for very short interconnectivity, like between

Mar 23, 2026

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

Sep 29, 2025

Google's High-Speed Interconnect Architecture to Push

Google's next-generation TPU, Ironwood, integrates a 3D Torus network topology with the Apollo optical circuit switch (OCS) all-optical network,

Aug 19, 2025

QSFP28-100G-ZR-P 100km Optical Transceiver Module

TARLUZ QSFP28-100G-ZR-P optical transceivers are high-performance, pluggable, four-channel QSFP28 optical modules designed for linkage of 100Gbps Ethernet

Jun 19, 2026

BWN 100G QSFP28 ZR4 100km SFP Module

Unlock superior connectivity with the BWN-Q28-ZR4-100D transceiver. This optical SFP module delivers 100Gbps speeds over distances up to 100km without signal regeneration.

Jul 17, 2025

100GBASE-ZR4+ QSFP28 100km | €1,006.01 | EDGE

The EDGEOPTIC 100G-QSFP28-100P is a multi-vendor compatible 100GBASE-ZR4+ QSFP28 optical transceiver designed for long-haul 100 Gigabit Ethernet

Dec 15, 2025

10G SFP+ EZR 1550nm 100km Transceiver Module

The compatible SFP-10G-ZR100 is designed to meet the challenges of long-distance connections in 10G networks, allowing users to achieve an ultralong link distance

Aug 23, 2025

100G QSFP28 ZR4+ LWDM4 100km Optical Module

FiberMall QSFP28-100G-ZR4+ is a 100G QSFP28 ZR4+ Transceiver Module that supports up to 100km optical transmission over SMF at the wavelength of LWDM4.

Aug 08, 2025

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

Enter the QSFP28-100G-ZR4 transceiver – a powerhouse module designed to bridge vast distances with clarity and reliability. In this guide, we'll

Oct 07, 2025

Sudan Juniper Compatible 10G SFP+ (1550nm,100km,LC

LINK-PP LS-SM5510-A0C Compatible Juniper EX-SFP-10GE-ZR100 10GBASE-ZR SFP+ Optical Transceiver Module (SMF, 1550nm, 100km, LC, DOM) Juniper Networks EX-SFP-10GE-ZR100

Jul 08, 2025

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab-verified guide.

Sep 22, 2025

Siemens 6GK71771MA100AA0 PLC Expansion Module Switch 4

1000 BaseLX optical SC port for direct connection to the Industrial Ethernet FO cables. Singlemode fiber-optic cable up to 10 km Similar Items Recently Viewed Item RS Stock# Manufacturer Man.

Sep 28, 2025

LINK-PP LS-SM3110-10C: Your Ultimate 10G SFP+ LR

Conclusion: Powering Reliable, Long-Reach 10G Connectivity The LINK-PP LS-SM3110-10C 10G SFP+ LR 10km optical module represents a

Jul 09, 2025

Cisco Optics | Transform Your Network

Pluggable optics enable high data-rate transmission between servers, switches, and routers. Get performance-leading optical transceivers for any network with Cisco

Jun 07, 2026

Boost your 80km links to 100G with QSFP-100G-ZR4-S

Conclusion Cisco's broad portfolio of 100G optical modules provides network operators and service providers with a comprehensive solution for their

Apr 05, 2026

10G SFP+ ZR 100km

10G SFP+ ZR 100km • Supports from 1.2Gb/s to 11.3Gb/s bit rates • Compliant with IEEE 802.3ae • Compliant with 10G FC

May 31, 2026

TTL Optical Transceiver Module 100KM Optical End Device ...

TTL Optical Transceiver Module 100KM Optical End Device Dedicated Optical7768 | Computers/Tablets & Networking, Enterprise Networking, Servers, Switches & Hubs | eBay!

Nov 30, 2025

Co-Packaged Optics — a deep dive | APNIC Blog

In the Quantum-X photonic switch system, only 18 laser modules connected at the front panel supply light to all 144 x 800G optical channels. Each

Oct 09, 2025

10G BiDi SFP+ 1490nm/1550nm 100KM LC Optical Transceiver

10G SFP+ Module 10G BiDi SFP+ 1490nm/1550nm 100KM LC Optical Transceiver is an ultra-long-haul bidirectional module designed for 10 Gigabit Ethernet and fiber channel networks.

Jan 14, 2026

High-Speed GAOTek Fiber Module: 100Gbps, 100km,

They are commonly used in networking equipment, including switches, routers, and servers, to provide optical connectivity for data communications and

Feb 01, 2026

100G QSFP28 100km EZR

The STC-QSFP28-100KM-EZR is a high-performance 100G optical transceiver designed for ultra-long haul data transmission. Supporting transmission distances up to 100 kilometers over standard single

Contact Us

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