

Long-distance optical transceiver QSFP28



Overview

The QSFP28 LR4 is a hot-pluggable, four-channel, and full-duplex optical transceiver module designed for long-distance transmission up to 10 km in the 100G Ethernet network with a working bandwidth of 1295nm to 1310nm. QSFP28 (Quad Small Form-Factor Pluggable 28) enables 100G transmission by aggregating four parallel 25G electrical lanes, delivering an optimal. Among the various high-speed optical form factors available today, 100G QSFP28 Transceivers have emerged as the industry standard for delivering reliable, cost-effective 100-gigabit Ethernet links across a wide range of deployment scenarios. QSFP28 transceivers combine a compact form factor with. The FS® 100GBASE Quad Small Form-Factor Pluggable (QSFP28) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data center, high-performance computing networks, enterprise core and distribution layers, and service provider. QSFP28 (Quad Small Form-Factor Pluggable 28) is a compact transceiver form factor designed for high-capacity 100G Ethernet. 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. 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.

Article Content

SFP Optical Transceivers: How Pluggable Optics Are Reshaping

AOC (Active Optical Cable): An active fiber cable with integrated mini-transceivers. Supports distances up to 100 meters at 100G or 400G speeds, with lower weight and better bend

Axiom 100G QSFP28 ZR4 Fiber Optic Transceiver Module

Data centers and enterprise networks that demand high-speed data transfer will benefit from the Axiom 100G QSFP28 ZR4 Fiber Optic Transceiver Module. This module facilitates reliable, long-distance

AddOn Q28-100GB-PSM4 QSFP28 100Gbps Fiber Optic Transceiver

The AddOn Networks Q28-100GB-PSM4 transceiver module is designed to deliver exceptional performance for fiber optic applications, optimizing high-speed data transfers across long distances.

Third-Party Optical Transceivers Market Report 2025

Third-Party Optical Transceivers Market Dublin, May 28, 2025 (GLOBE NEWSWIRE) -- The "Third-Party Optical Transceivers Market by Data

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.

Transceiver Types: SFP, SFP+, QSFP, XFP & More Explained

Optical transceivers convert electrical signals to optical signals (and back), enabling fiber optic communication in switches, routers, and servers. The market offers a confusing array of form

SFP Modules: The Unsung Heroes of Modern Networks

SFPs: The Small Components That Keep Modern Networks Connected As network engineers, we talk a lot about routers, switches, and bandwidth — but rarely do we give enough credit to the small, hot ...

SFP Optical Transceiver Modules for Long Distance: A Complete

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

QSFP-DD TRANSCEIVERS for 400G and 800G

Active Optical Cables (AOC): Incorporate real transceivers with fiber optics, providing longer-distance connectivity while remaining lightweight and flexible.

QSFP28 Optical Transceiver 100 Gigabit Ethernet for up to 10 km Reach

The Lumentum 100G QSFP28 LR4 Optical Transceiver is a full duplex, photonic-integrated optical transceiver that provides a high-speed link at aggregated data rate of either 103.125 Gbps or 111.81

QSFP28 Transceiver: Complete 100G Connectivity Guide

The QSFP28 LR4 transceiver supports distances up to 10 kilometers over OS2 single-mode fiber and is well suited for DCI, campus, and metro

QSFP28 optical transceivers | Smartoptics

Smartoptics offers a wide selection of QSFP28 transceivers designed to support 100G Ethernet across different networking environments. Coherent QSFP28 -

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

Optical Transceivers & Network Products | EDGE Optical Solutions

Browse EDGE Optic fiber optic transceivers, DACs, and passive xWDM products. Compatible with Cisco, Juniper, Arista, and more.

What is SFP Port? Everything You Need to Know

XFP port is a physical slot that accepts XFP module plug-ins. It is only for 8G and 10G XFP transceivers but doesn't support other speeds.

How to Choose the Right Fiber Optic Cable for Your Optical Transceiver ...

Learn how to choose the right fiber optic cable for SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, and OSFP optical transceivers. Avoid common fiber compatibility mistakes and improve

#opticaltransceiver #fiberoptics #telecommunications #sfp #qsfp28 # ...

A well-matched optical transceiver not only guarantees stable network operation but also maximizes investment efficiency and supports future network evolution.

Hilink Optics QSFP QSFPDD OSFP 10G SFP

If you have any questions about Hilink Optics CWDM DWDM QSFP QSFPDD OSFP 10G SFP transceivers, we will give the professional solutions to you.

Optical Transceiver Market Size, Share, and Trends Analysis 2032

The global Optical Transceiver market size was estimated at USD 13.08 Billion in 2024 and is estimated to grow at a CAGR of 15.41% from 2025 to 2032.

Design and Implementation Scheme of QSFP28 Optical

A quad, small form-factor pluggable 28 Gbps optical transceiver design scheme is proposed. It is capable of transmitting 50 Gbps of data up to a

Optical Transceiver Market Size, Growth Drivers

Optical Transceiver Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Optical Transceiver Market Report is

QSFP28 100G LR Fiber Optic Transceiver Module 100000 Mbit/s LC

This fiber optic transceiver is ideal for long-range communication up to 10,000 meters and is equipped with an LC connector, making it compatible with a variety of optical networks. Perfect for telecom and

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.

Optical Transceivers Market Size Report, 2026-2033

As bandwidth needs climb across digital economies, the long-distance optical transceiver segment will remain a key driver of scalable, future-ready network

AddOn Networks QSFP28 100Gb Fiber Optic Transceiver – TRINCOS

Data centers and enterprise networks that require high-speed, long-distance data transmission will benefit immensely from the AddOn Networks QSFP28 100Gb Fiber Optic Transceiver.

QSFP28 Transceiver: Complete 100G Connectivity

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot

Cisco QSFP28 100G ZR Digital Coherent Optics

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

Transceiver Types for High-Speed Networking

□□ Transceiver Types at a Glance – The Backbone of High-Speed Networking! □□> As network infrastructures continue to evolve, selecting the right transceiver module is essential for ...

Contact Us

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