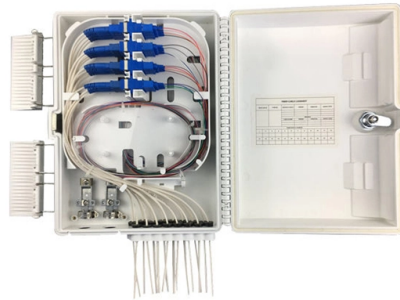


Cost-effective optical router QSFP28



AI Overview

QSFP28 optical transceivers typically range from \$200 to \$600 per module, depending on type, distance, and vendor. Typical Pricing The Huawei QSFP28-100G-SR4, a common short-range 100G optical transceiver, is priced in the \$200-\$400 range for single units, though exact pricing depends on vendor, quantity, and support options. Other QSFP28 modules, such as LR4 (long-range) or ER4 (extended-range), generally cost more, often \$400-\$600 per module, due to higher-quality lasers and longer transmission distances. Vendors like FS and Vitex provide similar modules with comparable pricing, and bulk purchases or enterprise contracts may reduce per-unit cost.

Factors Affecting Cost

Module Type and Distance: SR4 modules are for short distances (up to 100m on multimode fiber), LR4 supports up to 10km on single-mode fiber, and ER4 can reach 40km or more. Longer distances require more advanced optics, increasing cost.

Optical Technology: Modules may use VCSELs for multimode or DFB lasers for single-mode applications. PAM4 or CWDM4 variants for higher performance also raise prices.

Vendor and Brand: Original equipment manufacturer (OEM) modules like Huawei or Cisco are typically more expensive than third-party or compatible modules.

Engineering and Testing Costs: Development, design verification, and reliability testing (temperature cycling, moisture resistance, shock tests) contribute to the final price.

Accessories and Support: MPO fiber cables, patch panels, cleaning kits, and protective cases may add to the total cost if purchased together.

Market Considerations QSFP28 modules are widely used in data centers, enterprise networks, and high-performance computing environments. Prices fluctuate based on supply chain conditions, global demand for 100G networking, and technological upgrades. For the most accurate pricing, contacting vendors directly or checking online distributors is recommended. In summary, a single QSFP28 module generally costs between \$200 and \$600, with the exact price influenced by range, o...

Article Content

QSFP28 ZR Coherent Optics: 100G Long-Haul & DCI Guide

This guide explains how QSFP28 ZR coherent optics work, when they outperform direct-detect alternatives, which routing and switching platforms they support, and how to deploy them

FS Transceivers | Premium Optical Transceivers

Our fiber optic modules undergo rigorous interoperability testing in multi-vendor environments to ensure reliable operation. From SFP modules for access layer

Overview of 100G Ethernet QSFP28 Transceivers

At the center of most 100G deployments is a compact, hot-swappable optical module known as QSFP28. If you've worked with QSFP+ at 40G before, QSFP28 will feel familiar in size and

Where Are DAC Cables Used? Applications in Data Centers & AI

Instead, network designers combine Direct Attach Copper (DAC) cables, optical transceivers, and fiber optic patch cables according to distance, bandwidth, scalability and budget. Understanding where

The Ultimate Guide to SFP, SFP+, SFP28, QSFP+, and QSFP28:

The most cost-effective and future-proof architectures consistently combine QSFP28 aggregation with SFP28 access, leveraging breakout cables and mixed-rate optics to maximize port

How to Choose the Right Fiber Optic Cable for Your Optical

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

SFP Modules: Types, Selection Guide & Applications

An SFP module is a compact, hot-swappable optical transceiver designed to facilitate data transmission between network devices such as switches, routers, servers, and media converters.

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 ...

Cisco QSFP28 100G ZR Digital Coherent Optics Module

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.

QSFP28 100G SR4 Transceiver – High-Performance Optical

Explore the QSFP28 100G SR4 transceiver by LINK-PP. High-performance, cost-effective optical module for data centers, supporting 100G multimode fiber and broad vendor

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

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

Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

Understanding the Role of Optical Modules in POTN Optical modules—often called transceivers—serve as the physical bridge between electrical equipment and optical fiber. They

Coherent Showcases Next-Generation Optical Innovations at ECOC

Compact, power-resilient, and cost-effective, it enables high-speed datacom transceivers and dynamic datacenter architectures, supporting the growing demands of AI-ready optical networks.

How to Check SFP Light Levels Using CLI Commands

How SFP Optical Telemetry Works (SFF-8472 vs CMIS + CLI Commands) Quick Answer (Featured Snippet): SFP light levels are measured using Digital Optical Monitoring (DOM), where the

800G Client Optics in the Data Center

The QSFP-DD form factor is widely deployed in 400G connected data centers and has been a critical factor in delivering cost-effective 400G optical modules with 50G PAM4 lanes. This form factor was

QSFP28 PAM4 DWDM: High-Capacity 100G/400G

Explore QSFP28 PAM4 DWDM transceivers for high-speed 100G/400G networks. Learn how PAM4 modulation and DWDM enable long

QSFP28 Price Guide 2026: 100G Transceiver Costs

Real QSFP28 pricing for 2026: SR4, LR4, CWDM4, and single-lambda costs. Compare OEM vs third-party, volume discounts, and hidden TCO

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.

40G QSFP+ Optical Transceivers Complete Guide

How 40G QSFP+ optical transceivers boost performance in data centers and telecom networks. Learn about types, use cases, and cost-saving benefits.

HTF DWDM equipment, OTN Solution, QSFP28 OSFP

HTFuture offers industry-leading fiber optic products and WDM system solutions with global recognition for excellence and innovation.

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

Single-Lambda 100G Pluggable Optics Solution

Led by Cisco Optics experts, this MSA quickly gained broad industry support due to its vision to create cost-effective solutions for high-density multi

What is SFP Port? Everything You Need to Know

What types of ports are in your switches? Do you plan to upgrade SFP switches to QSFP28 port switches? Are there any topics missed in this

A Comprehensive Look at the QSFP28-100G-ZR4 Optical Module

The QSFP28-100G-ZR4 optical transceiver is a high-performance module that delivers reliable data transfer across extended distances, with exceptional signal quality and reliability.

QSFP28 Transceiver: Complete 100G Connectivity

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

Contact Us

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