Price list for QSFP28 tunable optical modules for data center interconnection

Overview

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

Key Takeaways

QSFP28 modules for 100G data center links typically range from $150 to $600 per module, depending on type, reach, and vendor. Price Ranges by Module TypeSR4 (Short-Range, multimode, up to 100m on OM4 fiber): $150–$250 per module. Ideal for intra-rack or nearby rack connections, offering the most economical solution for short-reach links.

LR4 (Long-Range, single-mode, up to 10 km): $400–$600 per module. Suitable for building-to-building or campus-wide interconnects, using four CWDM wavelengths over duplex LC fiber. CWDM4 (Single-mode, 2 km–2.

5 km): $350–$500 per module. Optimized for medium-range data center interconnects with cost-effective wavelength multiplexing. ZR4 (Extended Reach, single-mode, up to 80 km): $800–$1,200 per module.

Used for long-haul metro or telecom links, less common in standard data centers. Factors Affecting QSFP28 PricingEngineering and Testing Costs: Modules undergo design verification and reliability testing, including temperature cycling, moisture resistance, and shock tests. These costs are reflected in the final price.

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Bill of Materials (BOM): Chipsets, optical components, and mechanical casings contribute significantly to cost. Production and Yield: Labor, equipment, and manufacturing yield rates influence module pricing. Vendor and Brand: OEM modules from Cisco, Juniper, or Arista are typically higher priced than third-party vendors like FS, Amphenol, or Cables on Demand.

Purchase Volume: Bulk orders often reduce per-unit cost, while small quantities may carry a premium. Market Strategy: Discounts, promotions, or end-of-quarter pricing can affect module cost. Vendor ExamplesFS.com: Offers 100G QSFP28 modules with 30-day free returns, prices generally in the $200–$500 range depending on type and reach.

Cables on Demand: Provides Amphenol QSFP28 modules in SR and LR variants, with pricing aligned to short- and long-range specifications.

Vitex LL

C: Offers a pricing guide and explains cost factors for 100G QSFP28 modules, useful for budgeting and procurement planning.

Summary

For data center interconnection, the most common QSFP28 modules are SR4 for short-reach and LR4 or CWDM4 for longer links. Prices vary widely based on reach, optical technology, vendor, and purchase volume, typically ranging from $150 for SR4 modules to $600 for LR4 modules, with ZR4 modules reaching higher costs for extended distances. Selecting the right module requires balancing distance requirements, fiber type, and budget to ensure cost-effective deployment.

Article Content

QSFP28 Price Guide 2026: 100G Transceiver Costs & TCO

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100G QSFP28 Transceiver Modules

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The main types are: QSFP28 SR4, QSFP28 LR4, QSFP28 PSM4, QSFP28 CWDM4 and QSFP28 ER4. Compared with other package types of 100G transceivers (CFP/CFP2/CFP4), the 100G QSFP28 has

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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.

Understanding QSFP28 Optical Modules: A Comprehensive Guide

In conclusion, QSFP28 optical modules play a crucial role in enabling high-speed data transmission in modern data centers, telecommunications networks, and enterprise environments.

QSFP28 Transceiver: Complete 100G Connectivity

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

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Product overview 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

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Complete guide to QSFP28 transceivers: SR4, LR4, CWDM4 module types, switch compatibility, breakout cables, and 100G deployment best practices.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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