Price quote for QSFP optical router



Overview

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

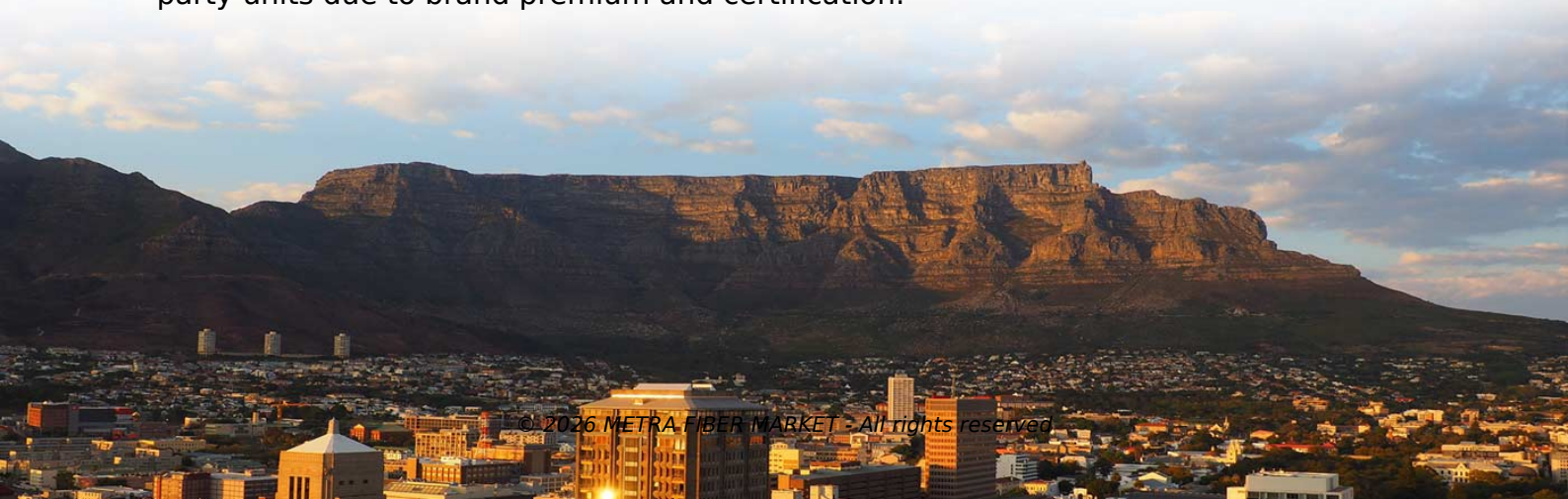
Key Takeaways

QSFP optical modules range from $1,400 to over $130,000 depending on type, reach, and vendor, with tariffs and import duties further affecting total costs.

QSF

P Module Pricing OverviewQSFP (Quad Small Form-factor Pluggable) modules are high-density optical transceivers used in modern data centers and backbone networks, supporting speeds from 40G to 400G+ per port. Pricing varies widely based on module type, transmission distance, and vendor: Short-reach SR8 modules for in-rack connections typically cost $1,400–$1,800 from reputable third-party vendors. DR4 and FR4 modules for cross-row or campus links are mid-range, bridging short and medium distances.

Long-haul coherent ZR+ modules for data center interconnects can exceed $130,000 from OEMs. For lower-speed QSFP28 (100G) modules, costs are influenced by engineering development, bill of materials (BOM), production, overhead, and profit margin. OEM-branded modules are generally more expensive than compatible third-party units due to brand premium and certification.



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Factors Affecting Costs

Module Type and Reach: Higher-specification modules (longer reach, coherent optics) are significantly more expensive. Vendor Choice: OEM modules carry a premium, while high-quality third-party modules can reduce costs without compromising reliability. Engineering and Production Costs: Includes design verification, reliability testing, and assembly, which are reflected in the final price.

Operational Considerations: Over-specification, inventory complexity, and unnecessary module diversity can increase total cost of ownership (TCO),. Purchase Volume and Supplier Relationships: Bulk orders and long-term contracts can reduce per-unit costs.

Tariff and Import Considerations

While specific tariff rates vary by country and trade agreements, QSFP modules are generally classified under optical transceiver or telecommunications equipment categories, which may attract import duties ranging from 0% to 5–10% depending on the jurisdiction. Tariffs can significantly impact total landed cost, especially for high-end modules like ZR+ or 400G SR8. Buyers should also consider customs clearance fees, VAT, and shipping costs when calculating final expenses.

Cost Optimization Strategies

Avoid Over-

Specification: Use modules that meet but do not exceed network requirements.

Consider Third-

Party Modules: High-quality compatible modules can reduce costs by 30–70% compared to OEMs. Standardize Inventory: Reduces operational complexity and lowers CapEx.

Leverage TC

O Analysis: Evaluate long-term costs including maintenance, power, and replacement cycles. Negotiate Bulk Orders: Larger volumes often qualify for discounts and lower shipping costs. SummaryQSFP optical modules exhibit a wide price range influenced by type, reach, vendor, and production costs.

Tariffs and import duties add to the total cost, particularly for high-end modules. Strategic procurement, including third-party sourcing, inventory standardization, and TCO analysis, can help mitigate costs while maintaining network performance and reliability.

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Article Content

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

QSFP-DD price guide with 400G/800G module costs, OEM vs third-party comparison, volume discounts, and 3-year TCO analysis for data center buyers.

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QSFPTEK is a one-stop optical transceiver manufacturer and seller. We provide 1G to 400G optics with a vast selection of compatibility and models. Our compatible modules are affordable

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Enterprise Network Refresh: Maximize Budget, Ensure Timely Delivery View stock Quote Cisco Released: April 8, 2025 ... « 1 2 »

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QSFP28 Price Guide 2026: 100G Transceiver Costs

In many cases, the biggest differences are not optical performance, but branding, EEPROM coding, warranty process, and vendor support structure.

QSFP-100G-SR4-S= Datasheet

Overview The Cisco® 100GBASE Quad Small Form-Factor Pluggable (QSFP) portfolio offers customers a wide variety of high-density and low-power 100 Gigabit Ethernet connectivity options for data

Cisco QSFP-100G-ZR4-S Pluggable Transceiver At-a

The QSFP-100G-ZR4-S operates in the O-band optical spectrum where fiber optic dispersion is minimal, using traditional direct-detect transceiver

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

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