

Price list for QSFP fiber optic enterprise routers for data center interconnection



AI Overview

QSFP-DD module prices range from approximately \$1,400 for short-reach 400G SR8 modules to over \$130,000 for long-haul coherent ZR+ modules. Price Ranges by Module Type

400G SR8 (Short-Reach, in-rack/cross-row): \$1,400–\$1,800 from reputable third-party vendors, ideal for standard data center deployments.

400G DR4 and FR4 (Medium-Reach, row-to-row or campus links): Prices vary depending on vendor and distance, typically higher than SR8 but significantly lower than long-haul coherent modules.

400G/800G ZR and ZR+ (Long-Haul Coherent, DCI applications): OEM modules can exceed \$130,000, supporting distances from 120 km (800ZR) up to 1,000 km (800G ZR+) over DWDM networks.

OEM vs Third-Party Considerations

OEM modules (e.g., Cisco, Juniper, Arista) generally command higher prices due to brand, warranty, and guaranteed interoperability. Third-party modules offer cost savings, especially for short-reach deployments, but require careful verification of compatibility with your router or switch.

Factors Affecting Pricing

Transmission Distance: Longer distances and coherent optics significantly increase cost.

Connector Type: Duplex LC vs MPO-12 or other parallel interfaces can influence pricing.

Module Speed: 400G modules are generally less expensive than 800G modules due to lower complexity.

Volume Discounts: Bulk purchases can reduce per-unit cost, though these tiers are often undisclosed.

Example Cisco QSFP-DD Modules

400GBASE-DR4, MPO-12, 500m: Entry-level short-reach module.

400G-FR4, Duplex LC, 2 km: Medium-reach module for intra-data center links.

400GBASE-LR8, Duplex LC, 10 km: Long-reach module suitable for campus or metro DCI.

400G-ZR/ZR+ Coherent DCO: High-performance long-haul modules for metro/regional interconnects.

Deployment Insights

QSFP-DD modules are primarily used in high-performance data center fabric...

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PHILISUN Optical Transceivers can support compatible SFP, SFP+, SFP28, QSFP28, QSFP-DD, and OSFP module selection for data center, telecom, enterprise, AI, and HPC networks.

What Factors Influence 400G Optical Transceiver Price

Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and sustainability.

QSFP Price

QSFP40G BiDi Short-reach Transceiver. 40GBASE-SR4 QSFP Transceiver Module with MPO Connector. QSFP 40GBASE-LR4 OTN Transceiver, LC, 10KM. QSFP to SFP10G adapter. QSFP

400G Digital Optical Modules: Market Evolution & Growth Forecast to

Molex: A global manufacturer of electronic, electrical, and fiber optic connectivity systems, Molex provides high-density optical transceivers, including 400G QSFP-DD, targeting data center

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AITAF provides end-to-end optical communication solutions, structured cabling, ODN, optical modules, fiber testing instruments, data center networks, base station energy, smart city communications, and

800G OSFP/QSFP-DD | Transceiver Modules

The 800G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks. Click to get your 800G transceiver modules and cables from nearby warehouses.

400G Digital Optical Transceiver Market: Growth & Forecast to 2034

The 400G Digital Optical Transceiver market is projected for 11.47% CAGR, reaching \$11.14 billion by 2025. Analyzing drivers in cloud and data center interconnection. Access market data.

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Arista Compatible 200GBASE-2xLR4 QSFP-DD 8x25G NRZ 1310nm 10km SMF DOM Dual CS Duplex Optical Transceiver Module The QDD-200G-2xLR4 transceiver module is designed for use in 200

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We have compiled realistic 2026 market pricing from public vendor listings, OEM price references, and common deployment budget ranges.

Approved Networks

Approved Networks is a trusted provider of high-performance optical networking solutions for data centers, enterprises, and service providers. Our transceivers,

Commercial Optical Transceiver Market Trends & Forecast 2034

The Commercial Grade Optical Transceiver market is projected for 11.1% CAGR growth to 2034, driven by data center and enterprise network expansion. Analyze key segments and

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.

1000BASE-SX vs 1000BASE-LX, EX, ZX & BX SFP Guide

1000BASE-SX, 1000BASE-LX, 1000BASE-EX, 1000BASE-ZX and 1000BASE-BX are all Gigabit Ethernet fiber optic module terms, but they are not the same type of link. They differ in fiber

Data Center Interconnect Cost Analysis in the AI Era:

Explore data center interconnect cost models in the AI era. Learn how dark fiber and 100G/400G/800G QSFP modules optimize scalability, performance, and ROI.

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[Cisco Optics | Transform Your Network](#)

Data center interconnect over dark fiber transport Connect data center switches and routers with dark fiber using industry-standard 400G coherent pluggable optics.

[Cisco QSFP-40G-SR4 40GBASE-SR4 QSFP Module, MMF 100m,](#)

The Cisco QSFP-40G-SR4 is a high-performance QSFP transceiver module designed for enterprise-level applications. This module supports 40 Gigabit Ethernet connectivity over multimode fiber,

[Guide to QSFP Modules for Data Centers & Enterprises](#)

The QSFP+ connector transmits four lanes of 10Gbit/s Ethernet over multimode fiber optic cable at distances up to 100 meters with 850nm lasers (over OM4).

[Transceivers and QSFP Modules](#)

[Cisco QSFP-100G-LR4-S= 100GBASE LR4 10km QSFP Transceiver](#)

The Cisco QSFP-100G-LR4-S= is a high-performance optical module tailored for enterprise-level and data center networks. Designed to provide seamless 100G connectivity, this Cisco optical module

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Many network hardware providers and manufacturers, including Fibrecross, offer wholesale 40G QSFP+ optical transceivers at competitive prices. Buying in bulk is ideal for enterprise data center builds or

Contact Us

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