CIF Price QSFP-DD Optical Module 400G



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

The CIF price of 400G QSFP-DD modules ranges from approximately $1,400 for short-reach SR8 modules to over $130,000 for long-haul coherent ZR+ modules, depending on type, vendor, and transmission distance. Price Ranges by Module TypeSR8 (Short-Reach, In-Rack/Cross-Row): Typically $1,400–$1,800 from reputable third-party vendors, making them the most cost-effective entry point for 400G deployment. DR4 and FR4 (Data Center Row/Campus Links): Prices are higher than SR8 but remain competitive due to a robust third-party ecosystem, often $2,500–$5,000 depending on vendor and volume.

LR4 (Long-Reach, 10 km): OEM modules can exceed $10,000, significantly increasing deployment costs for standard DCI links.

Z

R and ZR+ (Coherent Long-Haul, Metro/DCI): These are the most expensive, with OEM ZR+ modules potentially costing $130,000 or more, though third-party alternatives can offer substantial savings.

Factors Affecting CIF Pricing

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Form Factor and Compatibility: QSFP-DD modules are designed for high-density switches and routers. Larger or niche form factors (e.g., OSFP) may carry a 5–15% premium due to tooling and thermal design. Optical Reach and Modulation: Modules using PAM4 signaling or coherent optics for long distances increase BOM costs.

Short-reach modules are simpler and cheaper, while coherent ZR/ZR+ modules require advanced DSP and optical amplifiers.

OE

M vs Third-Party: Third-party modules often cost 60–70% of OEM list prices for proven 400G transceivers, offering significant savings without compromising performance for most data center applications. Volume Discounts: Bulk purchases can reduce CIF pricing, especially for SR8 and DR4 modules, which are widely commoditized.

CI

F ConsiderationsCIF pricing includes the cost of the module, insurance, and freight to the destination port. For 400G QSFP-DD modules, CIF costs will vary based on: Shipping distance and logistics providerInsurance coverage for high-value coherent modulesCustoms duties and import taxes in the destination country For example, a $1,500 SR8 module shipped CIF to a major port may add $50–$150 in shipping and insurance, whereas a $130,000 ZR+ module could incur several thousand dollars in CIF charges due to its high value and insurance requirements. SummaryShort-reach SR8: $1,400–$1,800 CIFMedium-reach DR4/FR4: $2,500–$5,000 CIFLong-reach LR4: $10,000+ CIFCoherent ZR/ZR+: $130,000+ CIF (OEM), lower for third-party alternatives Selecting the right module type based on distance, application, and budget is critical to optimizing total cost of ownership while ensuring network performance.

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.

Cisco 400G QSFP-DD High-Power (Bright) Optical Module

Cisco 400G QSFP-DD High-Power (Bright) Optical module''s small size and low power make it an optimal choice for a wide range of DCI/Cloud, metro access/aggregation, wireless backhaul, and

400G OSFP/QSFP112/QSFP-DD | Transceiver Modules

FS provides an expanding portfolio of 400G OSFP/QSFP112/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward compatibility. The

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400G Optical Transceiver: Cisco 400G Optics, Pricing & Applications

Explore the 400G optical transceiver technology, pricing, Cisco optics, and application scenarios. Learn about QSFP-DD, DR4, and more for next-gen network solutions.

400Gb/s QSFP-DD ZR+ Coherent Optical Transceiver

Description The 400G QSFP-DD ZR+ Transceiver is a high performance, cost effective module for optical data communication applications from 100G to 400G. The 400G QSFP-DD ZR+ is

800G Optical Module Cost Analysis | TCO Optimization Guide

Complete guide to 800G optical module costs and TCO optimization for AI data centers. Includes pricing analysis, cost comparison, vendor strategies, and ROI calculations for informed

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Active Optical Module Market Research Report 2034

Active Optical Module market valued at $10.7 billion in 2025, projected to reach $35.6 billion by 2034 at 14.2% CAGR, driven by data center expansion and 5G deployment.

400G Optical Transceivers | OEM Compatibility | Carritech Optics

What is a 400G optical transceiver? A 400G optical transceiver is a hot-swappable module that sits in a switch, router, or NIC and converts high-speed electrical signals to light (and

Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module''s small size and low power make it an optimal choice for a wide range of

Senegal Active Optical Module OSFP

OM PHOTONICS provides ultra-low-loss G.654.E fiber, transparent cables, invisible patch cords, connectors, protection switches, QSFP-DD modules, aggregation switches, EMS, long-haul

Cisco 400G QSFP-DD Optical Modules Price

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Cisco 400 Gigabit Modules Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers capable of

AddOn Cisco QDD-400G-SR4.2-BD-AO | Tech-America

AddOn Cisco QDD-400G-SR4.2-BD Compatible TAA 400GBase-BX SR4.2 PAM4 QSFP-DD Transceiver (MMF, 850nm to 902nm, 100m, MPO-12, DOM, CMIS 4.0) - For Data Networking,

Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco® family of QSFP-DD modules provide the industry''s highest bandwidth density while leveraging the backward compatibility to lower

400G SR4 QSFP-DD Optical Transceiver Module

400G QSFP-DD SR4 PAM4 Optical Transceiver Module (850nm MTP/MPO-12 OM3/OM4 60m/100m with FEC DDM) 400G QSFP-DD SR4 connects 400G

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules Data

Cisco now offers a range of all new 400G Digital Coherent QSFP-DD transceivers. Cisco already offers a range of Digital Coherent CFP2 transceivers capable of supporting up to a 200-Gbps

QSFP-DD 400G SR4 Optical Module: The New Choice for High

The emergence of 400G/800G transmission rates is revolutionizing data center infrastructure. This article introduces a new 400G product: the 400G QSFP-DD SR4 optical module,

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