Price of a single 400g optical module

Overview

400G OSFP/QSFP112/QSFP-DD | Transceiver Modules The 400G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider.

Key Takeaways

400G optical module prices range from around $1,400 for short-reach SR8 modules to over $130,000 for long-haul coherent ZR+ modules, depending on type, vendor, and transmission distance. Pricing OverviewSR8 Modules (Short-Reach, In-Rack Connections): Typically priced between $1,400 and $1,800 from reputable third-party vendors. These are the most common modules for modern data center deployments and represent the standard entry point for 400G adoption.

DR4 and FR4 Modules (Medium Reach, Cross-Row or Campus Links): Prices are competitive due to a robust third-party ecosystem, generally ranging from $2,500 to $5,000, depending on vendor and volume. LR4 Modules (Long-Reach, Data Center Interconnect): OEM LR4 modules can exceed $10,000, making them a significant cost factor for DCI deployments.

Z

R and ZR+ Modules (Coherent, Long-Haul DCI): These are the most expensive, with OEM prices potentially over $130,000. Third-party alternatives can offer substantial savings, often 60–70% of OEM list prices.

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M vs Third-Party OptionsOEM Modules: Typically more expensive, with guaranteed compatibility and firmware support. Preferred for critical production workloads, especially for long-haul or high-reliability applications.

Third-

Party Modules: Offer significant cost savings, particularly for SR8, DR4, and FR4 modules. They are widely used in data centers where budget optimization is important.

Additional Considerations

Volume Discounts: Many vendors provide tiered pricing for bulk purchases, which can reduce per-unit costs significantly. Total Cost of Ownership (TCO): When evaluating 400G modules, consider not only the purchase price but also operational costs, power consumption, and compatibility with existing infrastructure. Market Trends: The 400G module market is highly commoditized, with prices for short- and medium-reach modules stabilizing, while long-haul coherent modules remain premium items.

For purchasing, vendors like FS.com offer a wide range of 400G optical transceivers and cables with nearby warehouse availability and return policies, which can help streamline procurement. This pricing framework allows buyers to benchmark costs based on module type, reach, and vendor, ensuring informed decisions for data center or network deployments.

Article Content

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

The 400G transceiver modules are ideal choice for AI data centers, enterprise networks and service provider networks. Click to get your 400G transceiver

What factors influence 400G optical transceiver modules price

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

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

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules, provides an objective comparison between OEM and third-party products,

200G/400G/800G Optical Transceiver Modules | FiberMall

200G/400G/800G optical module features up to 40km transmission distances using QSFP56/QSFP-DD footprints for data center interconnect applications - FiberMall

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100G/400G Optical Transceiver Modules

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

In this article, the 400G optical transceiver is thoroughly explained in terms of definition, major types, application scenarios, price and cost, as well as typical product models such as QDD

Wholesale Optical Transceivers Module | 100G QSFP28, 40G QSFP

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400G QSFP-DD ZR4 120km Optical Transceiver Module DWDM4

A high-speed optical module that transmits 400Gbps data over 120km using 4 DWDM wavelengths on a QSFP-DD form factor.

MMA4Z00-NS400 400Gb/S mellanox optical transceiver Single Port

NVIDIA MMA4Z00-NS400 400G OSFP SR4 optical transceiver for high-speed data centers. Supports InfiniBand and Ethernet, 50m reach with OM4 fiber, low power consumption. Compatible with

Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP

Deploy software configurable line rates and modulation schemes for long-reach amplified DWDM systems or dark fiber systems. Support line rates up to 400 Gbps over a single-fiber bidirectional

Optical networks

An optical transport network is a high-speed communication system that sends light signals over fiber-optic cables to move large amounts of data across long

Select The Right Fiber Patch Cables For 1G/10G/25G Modules

Deploying optical modules requires the right fiber patch cable. It directly affects network connection stability, performance, and maintenance. This article will explain how to pick the right fiber

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Optical Transceiver Market Size, Growth Drivers

Optical Transceiver Market Analysis by Mordor Intelligence The optical transceiver market size reached USD 15.42 billion in 2026 and is

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400G vs 800G Optical Modules: Differences, Use Cases, and

Compare optical modules for data centers and AI clusters. Learn key differences in standards, power, cabling, and use cases.

POET Technologies Secures Financing of US$400 Million in a

POET Technologies Inc. the designer and developer of Photonic Integrated Circuits light sources and optical modules for the AI and data center markets, today announced it has entered into

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

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