

Cost of a 400G Optical Module 200G



Article Overview

The price of a 400G optical module can range from around \$1,400 for short-reach third-party modules to over \$130,000 for long-haul OEM coherent modules, depending on type, reach, and vendor.

Typical Price Ranges

- Short-reach SR8 modules for in-rack or cross-row connections are the most economical, typically priced between \$1,400 and \$1,800 from reputable third-party vendors .
- Medium-reach DR4 and FR4 modules bridge data center rows or campus links, with prices slightly higher due to increased complexity .
- Long-reach LR4, ZR, and ZR+ modules for data center interconnects can cost \$10,000 or more, with OEM coherent ZR+ modules exceeding \$130,000 .

Factors Affecting Cost

- Form Factor and Compatibility: QSFP-DD, OSFP, and other MSA form factors influence tooling and manufacturing costs. Larger or niche form factors often carry a 5–15% premium .
- Optical Reach and Modulation: Modules using PAM4 signaling or designed for longer distances require more advanced DSP chips and higher-quality components, increasing the bill of materials .
- Vendor Type: OEM modules are generally more expensive than third-party alternatives due to brand, warranty, and support. Third-party modules often offer competitive pricing for standard deployments .

Article Content

The Evolution of 400G, 800G, and 1.6T Optical Modules

NADDOD, the leading optical modules manufacturer, offers a comprehensive range of transceivers across all rates and

400G/200G Module Manufacturer

Lanbras optical modules and high-performance fiber optic cables deliver ultra-fast, low-latency data

400G Optical Modules: The Most In-Depth Q&A You'll Ever Need!

QSFP112 is the most convenient and cost-effective way to upgrade data center network bandwidth, maintaining

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,

Price List for Intelligent Optical Modules for Data Center ...

Intelligent tunable optical modules for DCI range from under \$2,000 for short-reach 400G modules to over \$130,000 for high-end

Optical Module Evolution: From 400G to 3.2T

400G optical modules remain the cornerstone of today's hyperscale data centers. They are widely deployed in

400G and 800G Optical Modules: Advancements and Comparison

Explore 400G and 800G optical modules with EML, VCSEL, and Silicon Photonics for data centers.

400G Optical Module Market Report | Global Forecast From 2025 To

The 200G category benefited from lower total-cost-of-ownership compared to 400G for applications not requiring maximum capacity,

100GE/200GE/400GE DCO Coherent Transceivers | FiberMall

FiberMall offers CFP DCO, CFP2 DCO, OSFP DCO & QSFP-DD DCO Coherent Optical Transceiver Module supporting up to 400G

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

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

200G per Lane for beyond 400GbE

OSFP defined 8 electrical lanes 8x 200G gives us 1.6Tb capacity Enable 100Tbps Switch ASIC Matching the electrical lane speed w/

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

Unveiling the secrets of 200G/400G optical transceivers

Introduction 400G technologies are currently being rolled out thanks to advances in optical communications. However, this rapid data

Optical Transceiver | 200G 400G 800G QSFP-DD & OSFP Modules

Explore optical transceivers for data centers and AI networks, including 200G, 400G, and 800G QSFP-DD and OSFP modules.

400G/200G Optical Module Compatibility Guide: Avoiding Multimode

Why do 400G switch links to 200G servers fail in multimode Y-cable deployments? Learn how optical lane

400G Optical Transceivers

400G Optical Transceivers: Economic Comparisons Compares: Module and Link Costs (vs. Distance) – Using a material basis

1.6T/800G/400G Transceivers

NADDOD 1.6T optical module and 400G/800G optical solutions help build high-bandwidth, high-throughput, and low-latency

Cisco 400G Optical Modules Price

Check Cisco 400G optical modules price, and buy them with best discount. Fast shipping and free tech support.

Comprehensive understanding of 400G optical modules

In the past two years, the demand for 400G optical modules in high-performance data centers, intelligent computing centers, super

100G 200G 400G Optical Module Trends | Infinol

Infinol reviews 100G, 200G and 400G optical module trends, helping network buyers understand changing data center and telecom

Technology from 400G to 800G to 1.6T Transceivers | FiberMall

This paper describes the technical route of optical communication from 400G to 800G to 1.6T optical modules and

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

What is the 400G Optical Module?

Nowadays, the progress of 400G optical module development and mass production is relatively satisfactory. In the

Cisco 400G QSFP Transceiver Modules Data Sheet

The Cisco QSFP-400G-DR4 module (Figure 1) supports 400GBASE-DR4 links and up to four 100G DR1 or two 200G

A Data Center Duel: 200G vs. 400G

The main two factors pushing the popularity of 400G Ethernet versus 200G is the module supply, alongside the cost.

200g/400g/800g Modules 10 20 40 80 Km LC Interface Type 10GB

What's your best price for your passive fiber optic product? Based on the quality and quantity of goods, we would quote the best

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