

Price List for 400g Optical Modules



AI Overview

The price of 400G optical modules ranges from around \$1,400 for short-reach SR8 modules to over \$130,000 for long-haul ZR+ modules, depending on type, reach, and vendor.

Price Ranges by Module Type

- SR8 (Short-Reach, In-Rack):** Typically priced between \$1,400 and \$1,800 from reputable third-party vendors, making them the most cost-effective option for standard data center deployments.
- DR4/FR4 (Medium-Reach, Cross-Row or Campus Links):** Prices are higher than SR8 modules, reflecting longer reach and more complex optical design.
- ZR+ (Long-Haul, Data Center Interconnect):** Can exceed \$130,000 from OEMs due to advanced coherent optics and extended transmission distances.

Factors Affecting Price

- Form Factor and Compatibility:** QSFP-DD, OSFP, and CFP2 form factors have different tooling and thermal requirements. Larger or niche form factors often carry a 5–15% premium due to lower production volumes and higher non-recurring engineering costs.
- Optical Reach and Modulation:** Modules using PAM4 signaling or coherent optics for long distances are more expensive than short-reach NRZ-based modules.
- Vendor Type:** OEM modules are generally more expensive than third-party alternatives, sometimes by a factor of 10 or more, depending on the module type and support services.
- Volume and Procurement Strategy:** Bulk purchases or long-term contracts can reduce per-unit costs, while small orders may face higher pricing due to limited economies of scale.

Summary

For most data center applications, 400G SR8 modules provide a cost-effective entry point at around \$1,400–\$1,800, while medium- and long-reach modules like DR4, FR4, and ZR+ can range from several thousand to over \$130,000 per unit. The final price depends on module type, optical reach, form factor, and vendor selection, so careful planning and specification matching are essential to optimize total cost of ownership.

Article Content

400G LPO QSFP112 FR4 Optical Transceiver Module

FiberMall LQSFP112-400G-FR4 uses LPO technology and is a high-performance, scalable, low-power optical module suitable for high-speed network applications.

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Shop high-speed optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, and 400G QSFP-DD modules for data centers. Expert technical

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

Over 20 Million 400G & 800G Datacom Optical Module

BOSTON (January 7, 2025) – Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest

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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Global 400G Optical Module Supply, Demand and Key Producers,

A 400G Optical Module refers to an advanced optical transmission module used in data centers, telecommunications networks, and high-speed communication systems.

400G Optical Module

This report aims to provide a comprehensive presentation of the global market for 400G Optical Module, focusing on the total sales volume, sales revenue, price, key companies market

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Some network operators chose to take a different approach at 400G upon recognizing the lessons learned from the efforts at 100G. In late 2016, these network operators and a few vendors identified

Europe 400G Optical Module Market 2024

Europe 400G Optical Module Market size was valued at US\$ 567.2 million in 2024 and is projected to reach US\$ 1.28 billion by 2030, at a CAGR of 14.5%.

Overview of 400G Optical Modules

With the advent of 400G, optical communication is entering a new era, moving from single-carrier modulation in low-end modules to polarization

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,

Small Form-factor Pluggable

Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module

Optical Modules Evolution and Innovation From 400G to

Explore the evolution of optical modules in speed and form factors from 400G to 1.6T, stressing key enhancement technologies, and paths to

Fiber Optic Patch Cables, Fiber Patch Cords

Get low-loss fiber patch cables & cords with various connector options that support fiber optic cabling up to 400G. 100% tested. Customized cables available.

Ethernet Transceiver Modules and Cables

FS offers a growing portfolio of 200/400/800G optical transceiver modules and cables. The super-high density and backwards compatibility can enable high bandwidth and high speed links for data center

400G Optical Transceivers | OEM Compatibility

Our 400G optical transceivers are 100% compatible with leading OEM brands such as Cisco, Juniper, Arista, Huawei, Nokia, Dell, and more. This

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HTF is one of the most professional 400g optical module manufacturers and suppliers in China, providing high quality products for compatible brands. Welcome to buy bulk customized 400g optical

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Introduction to 400G Optical Modules · KAD

A clear, engineer-friendly overview of 400G optical modules, including standards, packaging formats, functions, and market outlook for next-generation

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