400G Optical Module Offshore Price



Overview

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

Key Takeaways

The offshore price of 400G active optical modules varies widely, typically ranging from several hundred to several thousand dollars per unit, depending on form factor, optical reach, and technical specifications.

Price Range and Market Context

The cost of 400G optical transceivers is influenced by multiple factors, including form factor, host compatibility, optical reach, fiber type, and modulation technology. Common form factors include QSFP-DD and OSFP, with QSFP-DD generally being more cost-effective due to broader OEM support and higher production volumes, while OSFP modules may carry a 5–15% premium for larger housing and advanced thermal management. Offshore prices can fluctuate based on supply chain conditions, manufacturing volumes, and regional demand.

Technical Factors Affecting Price

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Form Factor and Integration: Compact eight-lane QSFP-DD modules are widely compatible and benefit from economies of scale, whereas OSFP modules, designed for higher-power DSP chips and advanced PAM4 signaling, are more expensive. Optical Reach and Fiber Type: Modules designed for longer distances or specialized fiber types require more complex optical components, increasing the bill of materials (BOM) and unit cost. Modulation Technology: Most 400G modules use PAM4 signaling, which doubles the data rate per lane compared to NRZ, adding to manufacturing complexity and cost.

Power Consumption and Thermal Management: Modules with higher power efficiency and advanced thermal designs may command higher prices but reduce operational expenditure in large-scale deployments.

Market Trends

The global 400G optical module market is experiencing rapid growth, with projections reaching USD 19. 18 billion by 2033 and a CAGR of 21. 3% from 2025 to 2033.

This growth is driven by hyperscale data centers, AI workloads, cloud adoption, and 5G network expansion. Technological advancements in silicon photonics, DSP integration, and compact packaging are helping reduce cost per bit and power consumption, indirectly influencing offshore pricing.

Practical Considerations for Offshore Procurement

Volume Discounts: Bulk orders from wholesalers or manufacturers can significantly reduce per-unit cost. Compatibility: Ensure the module form factor matches your switch/router ecosystem to avoid costly re-tooling. Total Cost of Ownership: Consider not only the purchase price but also power consumption, cooling requirements, and maintenance.

Supplier Selection: Reputable global suppliers like UnitekFiber provide MSA-compliant modules with guaranteed compatibility and reliability. In summary, offshore prices for 400G active optical modules typically range from a few hundred to several thousand dollars per unit, with QSFP-DD modules generally being more cost-effective than OSFP. Prices are influenced by technical specifications, optical reach, modulation type, and market demand, while ongoing innovations in photonics and packaging continue to optimize cost and performance for large-scale deployments.

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Article Content

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

800G/400G/200G Coherent CFP2 Transceiver Modules | Optical

FS 800G/400G/200G Coherent CFP2 optical transceiver module solutions offer a full range of CFP2 modules 80km reach. Purchase from nearby warehouses. 30-Day Free Return.

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

How 400G Optical Modules Are Shaping Next-Gen Networks

Discover key factors driving the rapid adoption of 400G optical transceivers, including AI, 5G, coherent optics, and market trends shaping next-gen network infrastructure.

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.

Global 400G Optical Module Market 2024 by Manufacturers, Regions,

Chapter 2, to profile the top manufacturers of 400G Optical Module, with price, sales, revenue and global market share of 400G Optical Module from 2019 to 2024.

Global 400G Optical Module Market Size, Share & Industry Forecast

The 400G optical module market represents a critical segment within the broader high-speed optical communications ecosystem, primarily driven by the relentless demand for higher

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Oman Offshore Price Optical Module 400G

Offshore Price Optical Module 400G optical transceivers from Unitekfiber. We offer 100% compatible 40G, 100G, an 400G QSFP-DD module Total 400G coherent pluggable shipments more than

400G Transceivers — Transceiver USA

400G Transceivers Transceiver USA''s optical QSFP and OSFP modules are used in enterprise and datacenter networks. View price, stock and buy direct from Transceiver USA.

Differences and Trends in 100G, 400G, and 800G Optical Transceivers

Similarly, 800G optical modules also accommodate various transmission distances, including short-distance multimode fiber (MMF) and long-distance single-mode fiber (SMF), to cater

400G LPO QSFP112 FR4 Optical Transceiver Module | FiberMall

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

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

The global 400G Optical Module market size is expected to reach $ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

Analysis of 400G OSFP SR4 Optical Module

Traditional 100G/200G optical modules can no longer meet the demands of high-density, low-latency traffic surges. The 400G OSFP SR4 optical module, with its innovative design, is

Overview of 400G Optical Modules

In 10G/25G modules, optical chips make up about 30% of the cost; in 40G/100G modules, this rises to around 50%; and in 400G modules, optical

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 choice for a wide range of DCI/Cloud, metro access/aggregation,

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

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