Current Price of Optical Modules for Communication Equipment



Overview

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

Key Takeaways

Optical module prices currently range from as low as $5 for basic compatible 1G SFPs to $200 or more for high-speed OEM modules, with average market prices around $150–200 per unit. Price Ranges by Module Type and Speed1G SFP Modules: Compatible or generic modules typically cost $5–$25, while OEM-branded or industrial-grade modules can reach $60–$120+ per unit. 10G SFP+ Modules: Compatible 10G SR modules are often priced in the tens of dollars, whereas OEM long-reach (LR/ER) modules can cost hundreds of dollars.

25G SFP28, 40G QSFP/QSFP+, 100G CFP/QSFP28 Modules: Prices increase with speed and reach, with high-performance modules for data centers and AI workloads averaging $150–$200 per unit, and specialized 400G/800G modules commanding higher prices.

High-

Speed Data Center Modules (400G/800G/1. 6T): These are premium modules used in hyperscale data centers, with prices significantly above standard 100G optics due to advanced silicon photonics and high-density design.

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Factors Affecting Pricing

Brand and OEM vs Third-Party: OEM-branded modules (Cisco, HPE, Juniper) are priced higher than compatible third-party units. Reach and Specifications: Long-reach, industrial temperature, or special-spec modules cost more than standard short-reach modules. Market Demand: Growth in 400G/800G deployments, AI/ML workloads, and 5G network expansion is driving demand and influencing prices.

Supply Chain Constraints: Semiconductor shortages and tariff adjustments can create price volatility.

Market Overview

The global optical module market was valued at approximately $12. 67 billion in 2024, with the U. S. accounting for 28% of revenue.

Average unit prices for optical modules are around $150–200, with total sales of 88–117 million units in 2024. The market is projected to grow rapidly, driven by high-bandwidth connectivity needs in data centers and cloud infrastructure, with a CAGR of 10–15% through 2031.

Summary

For procurement or budgeting purposes, basic 1G modules can be acquired for under $25, mid-range 10G–100G modules typically cost $50–$200, and high-speed 400G+ modules for hyperscale data centers are priced significantly higher. Prices vary by brand, reach, and performance specifications, and market trends indicate continued growth in demand for high-speed optical transceivers.

Article Content

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

Optical Transceiver Pricing: Cost Ranges by Speed and Type

See practical price ranges for 1G–100G optical transceivers, DAC/AOC options, and why cost varies by speed, reach and technology — buying tips included.

SFP Module Price: Strategic Cost Analysis and TCO Factors

The SFP module price generally ranges from $15 to $30 for standard 1G and 10G third-party transceivers. In contrast, Original Equipment Manufacturer (OEM) modules from brands like Cisco,

China Optical Modules, Optical Modules Wholesale, Manufacturers,

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The Optical Module Price is a key item within our extensive Communication Module selection.When seeking a communication module, prioritize factors such as compatibility with your system, speed &

Optical Transceiver Market Size, Share, Industry Report – 2035

The market is projected to reach USD 15.4 billion in 2026, driven by increasing deployment of 400G and 800G optical modules, rapid expansion of hyperscale data centers, and rising bandwidth demand

Optical Module Chip Market 2025

Average selling prices for 100G optical modules have declined approximately 70% over the past five years, forcing chip vendors to achieve aggressive cost reductions while maintaining performance.

Optical Transceiver Market Size, Share, Analysis 2030

Overall, the ongoing advancements in optical technology, particularly silicon photonics, create a fertile ground for optical transceiver manufacturers to expand their market reach and cater to diverse and

Optical Transceiver Modules Prices & Specifications

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical transceiver, is a typically hot-pluggable

Optical Modules Market Size, Growth Trends & Forecast

Situated within the broader optical communications industry, the Optical Modules Market is a vital subset of the telecommunications equipment sector. It connects closely with adjacent

Global Coherent Optical Module Market Size, Growth Trends, Industry ...

The coherent optical module market represents a critical segment within the broader optical communications industry, serving as the backbone for high-capacity data transmission across

Optical Module Package Market 2025

FREQUENTLY ASKED QUESTIONS: What is the current market size of Global Optical Module Package Market? -> Optical Module Package Market was valued at 8942 million in 2024 and is projected to

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The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Optical Transceiver Market Size, Share, Trends | Forecast

The global optical transceiver market size was valued at USD 14.7 billion in 2025 and is projected to grow from USD 17.15 billion in 2026 to USD 46.12 billion by 2034, exhibiting a CAGR of

Exploring Optical Module Chip Market Evolution 2026-2034

Explore the booming Optical Module Chip market forecast (2025-2033). Discover key drivers like 5G, data centers, and AI, alongside growth trends for 100G, 200G, 400G, and 800G

Optical Modules

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

Optics Transceiver Module Market 2025

What is the current market size of Global Optics Transceiver Module Market? -> The global Optics Transceiver Module Market size was valued at US$ 12.67 billion in

Deep Dive: Optical Module Market

What are Optical Modules? Optical modules are devices used in fiber optic communications to transmit and receive data through optical fibers. They convert electrical signals

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