

Article Overview

The average sales price of optical modules in 2024 ranged from approximately \$150 to \$200 per unit, with high-speed modules for data centers commanding higher prices.

Current Pricing and Market Context

In 2024, global sales of optical modules were estimated at 88-117 million units, with an average price range of \$150-\$200 per unit for standard modules . Prices vary depending on data rate, form factor, and application. For example, modules supporting 400G, 800G, and 1.6T speeds for cloud data centers and AI training clusters are typically priced higher due to advanced technology and higher bandwidth requirements .

Factors Influencing Prices

- o Data Rate and Form Factor: Higher-speed modules (e.g., QSFP-DD, CFP2/4) cost more than lower-speed SFP or XFP modules due to increased complexity and performance requirements .
- o Technology Type: Coherent optical modules and silicon photonics-based modules are generally more expensive than standard Ethernet transceivers .
- o Regional Supply and Demand: Prices can fluctuate based on regional demand, supply chain constraints, and tariffs, particularly in the U.S., China, and Europe .
- o Market Growth: The optical module market is expanding rapidly, driven by AI, cloud computing, 5G, and hyperscale data centers, which can influence pricing trends upward .

Market Trends

- o The global optical module market is projected to grow from \$17.6 billion in 2024 to \$56.8 billion by 2031, reflecting a CAGR of 15.8% .
- o Hyperscale cloud operators and telecom providers are increasingly investing in 400G and 800G modules, which are becoming critical for high-bandwidth applications .
- o Supply-chain diversification and the adoption of silicon photonics are expected to gradually reduce unit costs for enterprise deployments .

Summary

For standard optical modules, expect unit prices around \$150-\$200, while high-speed, high-capacity modules for AI and cloud data centers can be significantly higher. Prices are influenced by technology, data rate, form factor, and regional market dynamics, and the market is projected to continue growing strongly over the next decade .



Optical Module Sales Price

Optical Transceiver Market Size The global optical transceiver market was valued at USD 13.4 billion in 2025. The market is

The global Optical Modules market size was US\$ 23550 million in 2025 and is forecast to reach a readjusted size of

The global Optical Modules market size was USD 9425.5 million in 2024. Data center expansion is expected to boost sales to USD

The rapid development of AIGC has promoted the demand for 800G optical modules, and the entire industrial chain

Coherent Optical Module Market report highlights growth from USD 1.38 Billion in 2025 to USD 4.28 Billion by 2035, reflecting a

Active Optical Module market valued at \$10.7 billion in 2025, projected to reach \$35.6 billion by 2034 at 14.2% CAGR, driven by data

Average selling prices for 100G optical modules have declined approximately 70% over the past five years, forcing chip vendors to

What is Optical Transceiver Modules/SFP? Optical Transceiver Modules/SFP, also called fiber optic transceiver or optical

These structural tailwinds, combined with ongoing cost reductions enabled by silicon photonics integration and wafer-scale

Comprehensive guide to solar module prices in 2025. Current costs, market trends, buying strategies, and price

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025

The Global Optical Modules Market was valued at USD 14.20 Billion in 2025 and is projected to reach USD 38.94

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics

Explore the Data Center Optical Module Sales Market with forecasts from 2024 to 2033. Market size to grow from USD 8.5 billion to



Optical Module Sales Price

Optical Modules Market size was valued at USD 3.5 billion in 2025 & is estimated to reach USD 8.2 billion by 2034,

Optical Module Procurement guide to pricing trends, OEM vs aftermarket insights, and strategic buying tactics to

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