

Optical Module Sales Situation



Overview

Optical Modules This report aims to provide a comprehensive presentation of the global market for Optical Modules, focusing on the Optical Module Chip Mark.

Key Takeaways

The global optical module market is experiencing strong growth, driven by AI, cloud computing, 5G deployment, and hyperscale data center expansion, with sales projected to exceed \$19 billion by 2026. **Market Size and Growth**

The global optical module market was valued at approximately \$17.6 billion in 2024 and is forecast to reach \$56.8 billion by 2031, reflecting a CAGR of 15.8% during 2025–2031 . The optical module chip segment alone was valued at \$823 million in 2024 and is projected to reach \$1.52 billion by 2032, growing at a CAGR of 8% . High-speed modules such as 400G, 800G, and 1.6T are driving the fastest growth, particularly in cloud data centers and AI training clusters .

Sales Volume and Pricing

In 2024, global sales of optical modules were estimated at 88–117 million units, with an average price of \$150–200 per unit . Goldman Sachs forecasts 19.9 million 800G modules in 2025 and 33.5 million in 2026, with the total market value reaching \$12.73 billion in 2025 and \$19.37 billion in 2026, indicating strong year-on-year growth . The demand for 1.6T modules is also expected to rise, with 7 million units projected in 2026 .

Key Demand Drivers

- AI and GPU/ASIC growth: The ratio of AI chips to optical transceivers is increasing, e.g., 1:3 for H100 and 1:8 for specific ASIC clusters, driving higher module demand .
- Cloud computing expansion: Cloud service providers are expected to account for over 70% of optical module purchases by 2025 .
- 5G network deployment: Government investments in 5G infrastructure are boosting demand for high-speed optical modules .
- Hyperscale data centers: Increasing switch port bandwidth and denser GPU clusters are accelerating upgrades to 400G/800G modules .

Regional Insights

- China: Market expected to grow significantly, reaching \$4.2 billion by 2032 .
- U.S.: Estimated at \$2.4 billion in 2024, with strong demand from hyperscale cloud providers .
- Global supply chain: The market is shifting from traditional US/EU/Japan dominance to a dual-engine pattern of international OEMs and Chinese specialist manufacturers .

Industry Players and Performance

Major players include Coherent Corp, Lumentum, Accelink Technologies, Broadcom, Innolight, Eoptolink, and Fabrinet. Many companies reported record revenues in 2025, e.g., Coherent at \$1.58 billion, Innolight at \$1.43 billion, and Eoptolink at \$848 million . Suppliers are investing in next-generation 800G solutions to meet bandwidth demands from AI and cloud computing .

Market Outlook

The optical module market is expected to maintain strong double-digit growth, driven by the ongoing expansion of AI, cloud computing, and 5G networks. Supply chain constraints remain a challenge, but capacity expansions by key semiconductor manufacturers, such as TSMC, are helping to meet demand . High-speed optical modules are increasingly seen as critical infrastructure components rather than supporting elements, reflecting their strategic importance in modern data centers .

Article Content

Optical Modules

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Optical Module Sales Situation

Optical module demand is being pulled in two directions at once, faster bandwidth for dense networks and tighter constraints on

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Optical Modules

The global market for Optical Modules was estimated to be worth US\$ 17590 million in 2024 and is forecast to a

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The Optics Module market is expanding rapidly, driven by data center proliferation and 5G deployment. Analyze the 12% CAGR to

Active Optical Module Market Research Report 2034

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

Optical Module Market Size & Share 2026-2032

The optical module landscape is undergoing rapid transformation as network operators, cloud infrastructure builders, and equipment

Optical Modules Market

This optical modules evaluation assists users in analyzing the market using a variety of metrics, including switching costs, economies

Optical Transceivers for AI-Driven Growth Datacom

By 2024, sales of optical modules for AI clusters are expected to surpass \$4 billion, up from \$2 billion in 2023 and

Global Optical Modules Market Research Report 2024

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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,

North America Optical Modules Market Analysis 2026

North America Optical Modules market size was USD 3770.20 million in 2024 and will grow at a compound annual growth rate

Global Data Center Optical Module Market Research Report

Global Data Center Optical Module Market: Market Segmentation Analysis This research report provides a detailed segmentation of

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