

Optical module growth in 2030



Overview

The global optical module market size was valued at \$13.8 billion by 2030, growing at a CAGR of 11. The US & Canada market for Optical Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at. The AI data center optical transceiver market has entered a historic growth phase, driven by the exponential expansion of AI computing clusters and the accelerated migration from traditional copper-based interconnects to high-speed optical connectivity. As of 2026, the market is valued at. Data centers will keep dominating optical module demand as AI and cloud drive revenue growth through 2030. Optical module demand is being pulled in two directions at once, faster bandwidth for dense networks and tighter constraints on power, security, and lead times.

Article Content

AI Data Center Optical Transceiver Module Market 2025–2030

The AI-driven demand for optical transceivers represents the most significant growth catalyst in the optical communications industry.

Optical Module Industry Statistics 2026

The global optical module market size was valued at \$13.2 billion in 2022 and is projected to reach \$35.8 billion by 2030, growing at a CAGR of 11.6% from 2023 to 2030.

Optical Module Chip Market 2025



The global optical module chip market is experiencing robust expansion, primarily driven by the exponential growth in data traffic across telecom, cloud computing, and enterprise networks.

Optical Modules Market Size, Growth Trends & Forecast

Emerging innovations, including silicon photonics, integrated photonic chips, and coherent optics, are transforming the landscape of optical modules. These technologies enable

Optical Module Market Size & Share 2026-2032

The optical module ecosystem is increasingly defined by performance requirements around low latency, thermal efficiency, signal integrity, wavelength management, and compatibility with evolving Ethernet

Optical Transceiver Market Size, Share, Analysis 2030

The global Optical Transceiver Market size in terms of revenue was estimated to be worth \$13.6 billion in 2024 and is poised to reach \$25.0 billion by 2029, growing at a CAGR of 13.0% during the forecast

Global 25G Optical Module Market Insights, Forecast to 2030

In terms of production side, this report researches the 25G Optical Module production, growth rate, market share by manufacturers and by region (region level and country level), from 2019

Optical Modules Market Size, Trends, Growth & Forecast Report to 2030

Navigate the historic market size, key trends, growth drivers, and future opportunities shaping the optical modules market's evolution.

Optical Module Market Trends & Future Outlook | AI Infrastructure ...

Expert analysis of optical module market trends, growth projections, competitive landscape, and technology disruption. Comprehensive outlook on the future of AI infrastructure

Silicon photonics and co-packaged optics at the heart of

While linear-drive pluggable modules remain competitive, CPO is expected to offer unmatched customization and scalability, with large-scale

Investor Presentation

FORWARD-LOOKING STATEMENTS This presentation contains forward-looking statements relating to future events and expectations, including our expectations regarding our estimates and projections

OSFP Optical Module Growth: What Drives 25% CAGR to 2034?

The OSFP Optical Module market expands rapidly. Analyze key applications like Cloud Services & AI driving a 25% CAGR. Get data on market size, companies, and future trends.

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Single Mode Optical Modules: Growth & Key Trends to 2033

Analyze the Single Mode Optical Modules market driving demand from telecom and data centers. Projecting 16.2% CAGR to 2033. Access key market dynamics and strategic insights.

How Industry Collaboration Fosters NVIDIA Co-Packaged Optics

NVIDIA is developing a co-packaged optics (CPO) platform that integrates optical and electrical components to improve data-center connectivity, in collaboration with industry partners like

Optical Transceiver Market Report 2026

The Optical Transceiver Market, valued at USD 14.85B in 2026, is projected to reach USD 27.6B by 2030, growing at a 16.8% CAGR.

Inside Nvidia's \$4B Optical Strategy—and Why CPO

TrendForce forecast for CPO penetration in AI data centers from 2025 through 2030. Total optical shipments continue to rise, while co-packaged optics

800G Silicon Optical Module Market Size | Emerging Growth

The 800G Silicon Optical Module Market was valued at USD xx.x Billion in 2023 and is projected to rise to USD xx.

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

