

# Optical modules saw the largest increase



## Overview

Data center switching drove 72% of optical module demand in 2023. Telecom long-haul networks consumed \$3. 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. With global R&D projected to. In July 2025, LightCounting released its Cloud Data Center Optics Report, revealing that cloud companies' increasing investments in data center and network infrastructure have created a highly dynamic new segment within this market. See how the latest market size figures, pricing pressure, and shipment shifts line up to explain why winners are. According to the latest June 2025 Quarterly Market Update by renowned research firm LightCounting, the global optical transceiver market is set to rebound in Q2 2025 with a projected 10% quarter-over-quarter growth. The key growth driver is the rising demand for 800G Ethernet optical modules. •AI infrastructure race fueled a Capex surge in 2024 to approximately \$200bn •2025 Capex Projection to near \$350bn and 2030 Capex projection to near \$545bn •Capex funding facilities expansion, xPU acquisition •Expectations of continued growth through 2030 with generative AI adoption both at the. The global market for Optical Modules was valued at US\$ million in the year 2024 and is projected to reach a revised size of US\$ million by 2031, growing at a CAGR of %during the forecast period.

## Article Content

### 2025/2026 Trend Report Photonics

vancements in integrated optics. This evolution is essential for enabling useful applications across diverse technological domains, including sensor technology, consumer electronics, medical engine

### Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034,

### 2025 Optical Module Market Share and Demand Report

The 2025 optical communication industry is driven by AI data centers (AIDCs) and 5G rollouts, with high-speed optical modules (400G/800G/1.6T)

### Optics Transceiver Module Market 2025

Which key companies operate in Global Optics Transceiver Module Market? -> Key players include TDK, Hamamatsu Photonics, Cisco, HP, Juniper, Huawei, Broadcom, among others. What are the

### Optical Module Chip Market 2025

The optical module chip market exhibits a fragmented yet competitive structure with global technology providers, semiconductor manufacturers, and specialized

### Global optical module sales reach \$4.25 billion in H1 2022

The global Ethernet optical module market share in Q1 and Q2 2022 amounted to USD 1,112/ 1,207 million respectively, and the sales revenue in Q2, although lower than the record high in

### 800G Optical Modules Drive Market Recovery in 2025

Baidu and Tencent saw double-digit YoY increases in spending, reinforcing the global trend toward AI-driven network upgrades. Market Impact:

### The Technological Evolution and Application Trends of

Future optical modules will continue evolving toward greater density, higher speeds, affordability, extended reach, and ease of maintenance. With

### Powering the Next Data Race: How 800G & 1.6T

Powering the Next Data Race: How 800G & 1.6T Optical Modules Are Reshaping AI and Cloud Infrastructure Original Article by SemiVision Research

### Optical Fiber Market Size, Share, Trends & Growth

The global Optical Fiber Market was valued at \$7.4 billion in 2023, is projected to hit \$11.9 billion by 2032, growing at a CAGR of 5.5% from 2024 to 2032.

### The Future of 800G Optical Modules: Market Forecast

Innovations such as these are setting the stage for the next generation of optical modules capable of meeting the increasing demands of

### Global Optical Modules Market by Type (Optical Receiver Modules ...

In terms of type, the optical receiver modules segment is expected to lead the market during the forecast period, owing to its increasing demand in data communication and telecom applications. In terms of

### The Evolution of Optical Modules: Powering the Future

Enter optical modules, which leverage the power of light to transmit data efficiently over long distances, driving the next generation of technological

### Optical Module Industry Statistics 2026

The automotive industry's demand for optical modules grew by 30% in 2023, fueled by ADAS and vehicle-to-everything (V2X) communication systems. Stringent data security regulations

### 800G Optical Modules Drive Market Recovery in 2025

Meanwhile, Signal AI's Optical Components Report reinforces this outlook, predicting that 800G modules will see a 60% year-over-year increase in

### Understanding Optics Module Trends and Growth Dynamics

The Optics Module market is expanding rapidly, driven by data center proliferation and 5G deployment. Analyze the 12% CAGR to \$42 billion by 2033 with our market insights.

### Optical Modules Evolution and Innovation From 400G to 1.6T

Explore the evolution of optical modules in speed and form factors from 400G to 1.6T, stressing key enhancement technologies, and paths to achieving high-speed optical modules.

### Optical Module Industry Statistics (2026): Expert Analysis

Optical module demand is reshaping faster than most forecasts, with 2026 growth pointing to a clear change in where capacity is being built and what customers are prioritizing.

### Optical Module Market Size, Competitors & Forecast to

The Optical Module Market, valued at USD 30.01B in 2026, is projected to reach USD 66.94B by 2032, growing at a 14.1% CAGR.

## Optical Components Market Update

- AEC/direct attach copper cables (DACs), AOCs, and optical transceiver capacity:While there is already a high demand for AECs/DACs, AOCs, and optical transceivers to support new AI deployments, it

## Active Optical Module Market Report | Global Forecast From 2025 To

The global active optical module market size is poised to grow significantly from USD 3.5 billion in 2023 to an estimated USD 10.8 billion by 2032, reflecting a compound annual growth rate (CAGR) of 13%.

## Optoelectronics Market Size, Demand Forecast 2025 -

The legislation indirectly boosts the optoelectronics market because micro-optics, drivers, and sensors embedded in the modules add value beyond

## Optical Module Market Growth Driven by AI Demand

Optical Module Market surges as AI clusters expand, boosting demand for 800G and Coherent-lite modules and reshaping global cloud network

## High-Speed Optical Module Demand Soars: AI

Discovering the intersection of AI computing and escalating market trends, the reliance on optical modules has surged. From high-scale

## Optical Modules Market Size, Growth Trends

Access detailed insights on the Optical Modules Market, forecasted to rise from USD 3.5 billion in 2024 to USD 8.2 billion by 2033, at a CAGR of

## Powering the Next Data Race: How 800G & 1.6T

Additionally, Research C observed that Ethernet optical module sales surpassed \$3 billion USD in Q2 2024, representing a 30% year-over-year

## Over 20 Million 400G & 800G Datacom Optical Module

Unit shipments of 400G and 800G modules have grown nearly fourfold over the past 12 months and are expected to surpass 20 million for 2024.

## Global Optical Modules Market Research Report 2025

The Optical Modules market size, estimations, and forecasts are provided in terms of output/shipments (K Units) and revenue (\$ millions), considering 2024 as the base year, with history

## Contact Us

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