

Optical Module 2030



Overview

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. 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. Yole Group unveils its latest photonic market and technology analyses, Silicon Photonics 2025 and Co-Packaged Optics for Data Centers 2025, which explore how AI-driven demand is reshaping connectivity, from transceivers to packaging innovation. Who Should Participate?

Professionals, researchers, and enthusiasts seeking to stay on the cutting edge of the rapidly evolving world of intelligent optical. The global Optical Module Package market size is predicted to grow from US\$ 10590 million in 2025 to US\$ 21050 million in 2031; it is expected to grow at a CAGR of 12.



Article Content

Yole Group

Yole Group - Access daily business, market & technology updates in the semiconductor industry, our Analysts' Analysis and Presentations and more

ION-2030: Enabling the intelligent optical network era

ITU has released a new framework to guide the evolution of global optical connectivity in the age of artificial intelligence (AI).

200G Optical Module Market 2025

200G Optical Module Market was valued at 2625 million in 2024 and is projected to reach US\$ 4991 million by 2032, at a CAGR of 9.9%

Optical Transceiver Market Insights and Growth Report

Optical Transceiver Market Overview • Optical Transceiver market size has reached to \$12.75 billion in 2025 • Expected to grow to \$27.6 billion in 2030 at a

Samsung Foundry Reportedly Wins Optical Module Order,

As a result, optical transmission technologies are becoming increasingly important. TrendForce forecasts that co-packaged optics (CPO) will steadily increase their share of optical

Over 800G optical transceiver shipments to soar 2.6× by 2026

High-speed optical interconnects are now central to performance and scalability, especially as AI data centers grow into large clusters, according to TrendForce. The report predicts

[SMM Tin News Flash: Institution: Micro LED CPO Optical Transceiver ...

Therefore, TrendForce estimates that the market value of Micro LED CPO optical transceiver modules will reach \$848 million by 2030. Data Source Statement: Except for publicly

\$DRAM \$EWY Samsung Photonics Samsung Electronics' foundry

Initial focus is on photonic integrated circuits (PICs) for data center optical modules and optical engines for co-packaged optics (CPO). Technical Achievements Samsung's modulator

LightCounting :: Scale-up networks in AI Clusters is a

A surge in AI development created a new wave in demand for optical connectivity in 2023-2025 and it will sustain the market's growth through 2030. The Figure

Optical Networks Toward 2030

Co-Packaged Optics (CPO) is emerging as a transformative solution, promising to redefine how data is transmitted within and between AI systems. In this ON2030

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

Silicon photonics and co-packaged optics at the heart

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

STMicroelectronics Unveils Next-Gen Optical Tech for AI, Datacenter ...

STMicroelectronics (NYSE: STM) has announced new proprietary technologies for enhanced optical interconnect performance in datacenters and AI clusters. The company is

GMT EIGHT

By 2030, the global AI optical module market is projected to reach RMB 347.5 billion, with a compound annual growth rate of 37.1% from 2025 to 2030. China is the fastest-growing market for optical

Worldwide Active Optical Module Market 2026

Worldwide Active Optical Module Market 2026 Global Active Optical Module Market Size, Share & Industry Analysis, By Data Rate (800G and Above, 400G), By End User (Cloud Data

Global Optical Modules Market 2024-2030

An optical module is a photoelectric converter that transforms electrical signals into optical signals and vice versa. It is a crucial component in fiber-optic communication.

Global Optical Modules Market Insights, Forecast to 2030

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

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.

The latest lenses and optics for imaging in 2026

Resolve Optics specialises in compact fixed and zoom lenses for challenging environments. They are a primary provider of radiation-resistant optical modules

IPoDWDM systems market forecast to reach \$4.4B by 2030 - Dell'Oro

ZR optics is the dominant pluggable used in IPoDWDM to date. Scale-across DCI is expected to change the market dynamics, driving a sharp increase in 800 ZR+ optical module

Co-Packaged Optics Market Size, Growth & Trends, 2031

Co-packaged optics market to grow from USD 161.43M in 2026 to USD 748.62M by 2031, driven by AI/ML bandwidth, hyperscale data centers,

Optics Transceiver Module Market 2025

Optics Transceiver Module Market size was valued at US\$ 12.67 billion in 2024 and is projected to reach US\$ 28.94 billion by 2032, at a CAGR of 10.84%

Samsung Electronics Launches Silicon Photonics Foundry Business ...

Samsung Electronics' silicon photonics roadmap, outlining a phased expansion strategy from PIC platform this year through optical engines (OE) and CPO to next-generation CPO by 2030.

Active Optical Module Market 2025

Active Optical Module Market was valued at 5916 million in 2024 and is projected to reach US\$ 15140 million by 2032, at a CAGR of 14.7%

Global Optical Module Package Market Overview, 2030

With trends in miniaturization, greater heat dissipation requirements, and signal fidelity demands, modern optical module packages are engineered with high levels of precision and durability.

AI Data Center Optical Transceiver Module Market 2025-2030

AI Data Center Optical Transceiver Module Market 2025-2030 Posted on Apr-03-2026
The AI data center optical transceiver market has entered a historic growth phase, driven by the exponential

Sivers Semiconductors Collaborates With Jabil on Energy Efficient

Through this collaboration, Jabil plans to develop a 1.6T linear receive optical (LRO) transceiver module using Sivers' high-performance Distributed Feedback (DFB) lasers. The new

IPoDWDM Systems Market Forecast to Reach \$4.4

According to a brand new "IPoDWDM and Disaggregated WDM" report from Dell'Oro Group, the trusted source for market information about the

GlobalFoundries accelerates adoption of co-packaged optics for

SCALE CPO solution is the industry's first OCI MSA capable platform and built with GF's proven silicon photonics technology MALTA, N.Y., May 4, 2026 - GlobalFoundries (Nasdaq: GFS)

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