

## Optical module prices continue to rise



### Overview

The price of new technologies is higher, with 800G optical modules being 50%-100% higher than 400G. Technological barriers and R&D investment: Leading manufacturers enjoy pricing power, R&D costs increase, and rapid technological iteration increases barriers. Supply and demand: Exploding demand for AI computing power is driving data center expansion, and 800G/1. The price of 2-inch optical communication-grade InP substrates surged from \$800 per wafer in early. 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. 8% (2025-2031), driven by critical product segments and diverse end-use applications, while evolving U. tariff policies introduce trade-cost volatility and.

- 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.

Optical Module Package Market was valued at 8942 million in 2024 and is projected to reach US\$ 20220 million by 2032, at a CAGR of 12.



## Article Content

The reasons behind the recent sharp price increase of optical modules

The price increase of optical modules reflects the urgency and rapid development of AI computing infrastructure construction . In the long run, technological innovation and large-scale production will ...

Optical Components Market Update

Whether suppliers can keep up with it remains to be seen. •Mounting community and political pressure: Communities do not want to see their electric bills increase and when data centers are built within ...

Over 20 Million 400G & 800G Datacom Optical Module Shipments ...

BOSTON (January 7, 2025) - Total shipments of leading-edge datacom optical modules are projected to tally over \$9 billion for 2024, according to the latest Optical Components Report from research firm ...

Optical Module Industry Statistics 2026

Competition in the 400G optical module segment intensified in 2023, with over 20 manufacturers entering the market, leading to a 12% decrease in average selling prices.

Powering the Next Data Race: How 800G & 1.6T Optical Modules Are ...

In summary, the surging demand for 800G and 1.6T optical modules—driven by AI computing clusters, hyperscale data centers, and next-generation cloud architectures—has positioned high-speed optical ...

Growth Catalysts in AI Optical Module Market

Discover the booming AI Optical Module market! This comprehensive analysis reveals key trends, drivers, restraints, and top players shaping this dynamic sector, projecting significant growth from ...

AI Computing Power Ignites "Gold Material" Indium Phosphide: Prices ...

The explosive growth in demand for AI computing power is driving up prices for indium phosphide (InP), a crucial material for high-end optical modules, with prices nearly tripling in just over ...

800G Optical Modules Drive Market Recovery in 2025

The key growth driver is the rising demand for 800G Ethernet optical modules, alongside the initial commercial shipments of 1.6T modules, which are beginning to contribute modest revenue.

Optical Module Package Market 2025

The optical module market has become increasingly competitive, with average selling prices declining at approximately 15-20% annually for mainstream products. Chinese manufacturers have significantly ...

Global Optical Modules Market Outlook, In-Depth Analysis & Forecast ...

Our research indicates that demand for 400G/800G and even 1.6T optical modules for cloud data centers and AI training clusters has been accelerating over the past two years, with the ...

## Contact Us

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