

Global Co-packaged Optics Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Co-packaged Optics Modules market size is expected to reach \$ 1780 million by 2032, rising at a market growth of 16.3% CAGR during the forecast period (2026-2032).

Co-packaged optics(CPO) refers to an advanced optoelectronic integration technology and module that co-locates optical engines (including lasers, modulators, photodetectors, silicon photonic chips, etc.) and electronic chips such as switch ASICs, GPUs, or XPU within the same package using 2.5D/3D heterogeneous packaging technologies. By integrating photonic and electronic components at the chip level, it shortens the electrical signal transmission path from the centimeter level to the millimeter level, significantly reducing signal loss, power consumption, and latency while greatly improving bandwidth density, making it a key technology for high-speed interconnections in AI-era data centers. In 2025, global Co-packaged optics(CPO) production reached approximately 600 million USD.

Data centers represent the largest market for CPO modules, accounting for as high as 60% to 70% of applications. With the continuous growth in global demand for cloud computing, artificial intelligence and other technologies, CPO modules will further expand their applications in the coming years. Meanwhile, 5G communications accounts for 20% to 25% of applications. As 5G infrastructure expands, especially driven by demand for high-speed connections between core networks and base stations, market demand for CPO modules will keep rising in the future. Demand in the high-performance computing (HPC) sector is also growing rapidly, with a share of approximately 5% to 10%, where CPO modules will play a key role in supercomputer clusters within data centers. The enterprise network and fiber access market accounts for 5% to 10%. As enterprises and service providers rely more heavily on optical fiber

communications, the adoption of CPO modules will gradually increase in this field. Other sectors such as military communications and medical equipment represent potential markets. Although their current share is relatively small, their market proportion is expected to expand further as technology matures.

This report studies the global Co-packaged Optics Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Co-packaged Optics Modules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Co-packaged Optics Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Co-packaged Optics Modules total production and demand, 2021-2032, (Units)

Global Co-packaged Optics Modules total production value, 2021-2032, (USD Million)

Global Co-packaged Optics Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Co-packaged Optics Modules consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Co-packaged Optics Modules domestic production, consumption, key domestic manufacturers and share

Global Co-packaged Optics Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Co-packaged Optics Modules production by Packaging Method, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Co-packaged Optics Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Co-packaged Optics Modules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Intel, NVIDIA, Cisco, Broadcom, Huawei, Marvell Technology, Lumentum, Acacia Communications, II-VI Incorporated, Sumitomo Electric Industries, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Co-packaged Optics Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Packaging Method, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Co-packaged Optics Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Co-packaged Optics Modules Market, Segmentation by Packaging Method:

Traditional Co-Packaged Optics Module

Integrated Optoelectronic Module

Silicon Photonic Module

Others

Global Co-packaged Optics Modules Market, Segmentation by Optical Interface:

Direct Connect Module

External Optical Interface Module

Others

Global Co-packaged Optics Modules Market, Segmentation by Integration Level:

Low Integration Co-Packaged Module

High Integration Co-Packaged Module

Global Co-packaged Optics Modules Market, Segmentation by Application:

Data Center Optical Module

High Performance Computing (HPC)

5G Network

Long-Haul Optical Communication (WDM System)

Others

Companies Profiled:

Intel

NVIDIA

Cisco

Broadcom

Huawei

Marvell Technology

Lumentum

Acacia Communications

II-VI Incorporated

Sumitomo Electric Industries

Key Questions Answered:

1. How big is the global Co-packaged Optics Modules market?
2. What is the demand of the global Co-packaged Optics Modules market?
3. What is the year over year growth of the global Co-packaged Optics Modules market?
4. What is the production and production value of the global Co-packaged Optics Modules market?
5. Who are the key producers in the global Co-packaged Optics Modules market?
6. What are the growth factors driving the market demand?

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