

# **Global Co-packaged Optics Market Size study & Forecast, by Type (CPO, NPO), by Data Rates (Less than 1.6 T & 1.6 T, 3.2 T, 6.4 T), by Application (Data Centers and High-performance Computing (HPC), Telecommunications and Networking, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Co-packaged Optics Market is valued at approximately USD 11.86 million in 2022 and is anticipated to grow with a healthy growth rate of more than 26.5% over the forecast period 2023-2030. Co-packaged optics is a technology that integrates optical components such as lasers, modulators, and detectors directly with semiconductor chips or electronic integrated circuits. This integration enables high-speed data transmission, typically using optical interconnects, in a compact and energy-efficient manner. The Co-packaged Optics Market is expanding because of factors such as the rising number of data center infrastructures and the surge in demand for high-definition video streaming. Co-packaged optics can be particularly beneficial in data centers and high-performance computing environments where there is a growing demand for faster and more power-efficient data communication. As a result, the demand for Co-packaged Optics has progressively increased in the international market during the forecast period 2023-2030.

Co-packaged optics enables faster data transmission within data centers. As data center traffic continues to grow, the need for higher bandwidth becomes increasingly critical. Co-packaged optics can support high-speed data rates, which is crucial for handling the increasing volume of data. According to Statista, in 2023, the United States accounts for the highest number of data centers globally, with a reported total of 5,375 facilities. Germany followed with 522 data centers, and the United Kingdom had 517

data centers in operation during the same period. Furthermore, global IT spending on data centre systems is estimated to reach USD 217 billion by the year-end of 2023. Another important factor that drives the Co-packaged Optics Market is the increasing demand for high-definition video streaming. As the demand for HD video streaming continues to grow, data centers and content delivery networks need to scale their infrastructure to handle the increased load. Co-packaged optics support scalability, making it easier for these facilities to expand their capacity and accommodate more users and higher-quality video content. In addition, as per Statista, the global Video Streaming (SVoD) market accounts for USD 95.88 billion in 2023. Moreover, the growing demand for IoT and connected devices in the education and healthcare industry and the rising deployment of 5G networks are anticipated to create lucrative growth opportunities for the market over the forecast period. However, the complicated design and fabrication process and high network complexity are going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Co-packaged Optics Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing presence of key market players and rising IT spending by enterprises towards advanced digitalization in the region. The region's dominant performance is anticipated to propel the overall demand for Co-packaged Optics. Furthermore, Asia Pacific is expected to grow fastest over the forecast period, owing to factors such as data center infrastructure due to the rising demand for cloud computing, digital services, and e-commerce in the region.

Major market player included in this report are:

Broadcom Inc

Cisco Systems, Inc

The International Business Machines Corporation

Intel Corporation

Microsoft Corporation

Furukawa Electric Co., Ltd

Hisense Broadband Multimedia Technology Co., Ltd

Huawei Technologies Co., Ltd

SENKO Advanced Components, Inc

Sumitomo Electric Industries, Ltd

Recent Developments in the Market:

In July 2022, Senko Advanced Components acquired CudoForm, a renowned company specializing in the design and production of high-precision micro-optic components used

in various sectors, including data communications, consumer photonics, and biosafety. This strategic acquisition of two prominent global industry leaders, synergizing their product offerings and expertise, is poised to accelerate the adoption of cutting-edge and inventive optical interconnect solutions.

Global Co-packaged Optics Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Data Rates, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type

CPO

NPO

By Data Rates

Less than 1.6 T & 1.6 T

3.2 T

6.4 T

By Application

Data Centers and High-performance Computing (HPC)

Telecommunications and Networking  
Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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