

Global Optical Transceiver Market Size Study & Forecast, by Transmission Rate (Less than 10 Gbps, 10 Gbps to 40 Gbps, 41 Gbps to 100 Gbps, Beyond 100 Gbps), By Transmission Distance (Short Distance, Long Distance), By Form Factor (SFP, SFP+, CFP, QSFP, Others (XFP, CXP, and others)), By Application (Telecommunication, Data Centers, Enterprise Networking, Others), and Regional Analysis, 2023-2030

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Abstracts

Global Optical Transceiver Market is valued approximately at USD 9.39 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 17% over the forecast period 2023-2030. An optical transceiver is a compact electronic device utilized in telecommunications and networking to transmit and receive data via optical signals. It serves as a crucial intermediary between electrical and optical systems, converting electrical signals into optical signals for transmission over fiber optic cables, and vice versa. Optical transceivers play a vital role in modern data transmission infrastructure by enabling high-speed, long-distance communication with minimal signal loss and electromagnetic interference. Optical transceivers are essential components that facilitate the efficient and reliable exchange of data across vast networks, contributing to the seamless operation of telecommunications systems and internet connectivity worldwide. The surge in demand for compact and energy-efficient transceivers, growth in the importance of mega data centers, as well as growing focus on 5G network the most prominent factors that are propelling the market demand across the globe.

In addition, the surge in mobile data traffic can be primarily attributed to the expanding

user base of smartphones, the proliferation of data-intensive applications, and the growing trend of social media video streaming among users. For instance, according to Statista, in 2021, total number of smartphone subscriptions was estimated to account with 6,269 million worldwide and the amount is continuously growing and likely to reach to 7,690 million by 2027. This overall upsurge in data consumption drives the demand for transceivers capable of managing the escalating data volumes effectively. In the dynamic landscape of data communication, transceivers assume a critical role, facilitating the seamless transmission of information across vast distances with minimal latency and maximum speed. Optical transceivers serve as indispensable connectors between electronic and optical signals, enabling the precise and reliable transfer of data through optical fibers. Their ability to ensure long-distance transmission with unparalleled precision and reliability underscores their importance in sustaining the efficiency and functionality of modern communication networks. Thus, increasing adoption of smart devices and rise in data traffic further acts as a primary factor that is stipulating the demand of the optical transceiver in the global market. Moreover, the rise in expansion of telecom infrastructure in developing economies, as well as the increasing demand for cloud-based services presents various lucrative opportunities over the forecast years. However, the increase in network complexity, along with the device compatibility and sustainability issues are hindering the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Optical Transceiver Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 with largest market share owing to the highly developed telecommunications infrastructure, rise in adoption of 5G technology, the concentration of major industry players, and rapid expansion of data center facilities. Whereas, Asia Pacific region is expected to grow at the highest CAGR over the forecast years. The increasing cloud adoption, accelerated deployment of 5G technology, surging demand for high-speed internet services, and the expansion of data center infrastructure are significantly propelling the market demand across the region. According to insights from GSMA, the Asia Pacific region witnessed a boost of over 1.73 billion unique mobile subscribers in 2022, with projections indicating an anticipated addition of USD 130 billion to the region's economy by 2030.

Major market players included in this report are:

Coherent Corp. (U.S.)

InnoLight Technology (China)

HiSilicon Optoelectronics Co., Ltd. (China)

Cisco Systems, Inc. (U.S.)

Broadcom Inc. (U.S.)

Eoptolink Technology Inc., Ltd. (China)

Accelink Technology Co. Ltd (China)

Molex, LLC (U.S.)

ATOP Corporation (China)

Lumentum Operations LLC (U.S.)

Recent Developments in the Market:

In November 2023, Lumentum Operations LLC, a prominent producer of optical and photonic technologies, completed the acquisition of Cloud Light Technology Limited, a manufacturer specializing in optical fiber transceivers and solutions, at a transaction value around USD 750 million. This strategic initiative is poised to significantly enhance Lumentum's revenue from cloud data center infrastructure.

In September 2023, Tower Semiconductor, a leading semiconductor manufacturer, partnered with InnoLight Technology to develop advanced high-speed optical transceivers utilizing Tower's Silicon Photonics process platform (PH18). These new transceivers are designed to address the growing requirements of data center and telecommunication applications.

In February 2023, Hamamatsu Photonics K.K. developed the optical transceiver P16671-01AS, utilizing advanced opto-semiconductor manufacturing technology capable of transmitting data at 1.25 Gbps. This cutting-edge transceiver is specifically engineered to meet the demanding requirements of scientific, medical, and semiconductor manufacturing equipment applications.

Global Optical Transceiver Market Report Scope:

Global Optical Transceiver Market Size Study & Forecast, by Transmission Rate (Less than 10 Gbps, 10 Gbps to 4...

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 - Transmission Rate, Transmission Distance, Form Factor, 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 Transmission Rate:

Less than 10 Gbps

10 Gbps to 40 Gbps

41 Gbps to 100 Gbps

Beyond 100 Gbps

By Transmission Distance:

Short Distance

Long Distance

By Form Factor:

SFP

SFP+

CFP

QSFP

Others (XFP, CXP, and others)

By Application:

Telecommunication

Data Centers

Enterprise 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

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Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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