

Optical Transceivers Market by Form Factor (SFF and SFP; SFP+ and SFP28; XFP; CXP), Data Rate, Wavelength, Type, Distance, Protocol, Application (Data Center, Telecommunication), and Geography—Global Forecasts to 2030

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Abstracts

The research report titled 'Optical Transceivers Market by Form Factor (SFF and SFP; SFP+ and SFP28; XFP; CXP), Data Rate, Wavelength, Type, Distance, Protocol, Application (Data Center, Telecommunication), and Geography—Global Forecasts to 2030', provides an in-depth analysis of optical transceivers market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

The optical transceivers market is expected to reach \$5.31 billion by 2030, at a CAGR of 12.4% during the forecast period (2023–2030). Based on volume, the optical transceivers market is projected to reach 42,923 thousand units by 2030, at a CAGR of 13.1% during the forecast period.

The growth of this market is attributed to the factors such as the growing adoption of optical modules among data centers and the rising need for optical transceivers for extended wavelengths over long distances. However, government regulations and certifications restrain the growth of this market. The growing adoption of 5G and cloud technologies and the increasing demand for high-speed internet and data-intensive applications are expected to create market growth opportunities. However, the lack of standardization is a major challenge for the players operating in this market.

Based on form factor, the optical transceivers market is segmented into SFF, SFP, SFP+ and SFP28, QSFP, QSFP+, QSFP-DD, & QSFP28, CFP, CFP2, & CFP4, XFP,

and CXP. In terms of value, in 2023, the QSFP, QSFP+, QSFP-DD, and QSFP28 segment is expected to account for the largest share of the optical transceivers market. The large market share of this segment is attributed to the growing installation of optical transceivers for data center aggregation and backplane applications and the rising demand for compact and energy-efficient transceivers and high-speed data transmission. However, the CFP, CFP2, & CFP4 segment is projected to register the highest CAGR during the forecast period.

Based on type, the optical transceivers market is segmented into single mode fiber and multimode fiber. In 2023, the single mode fiber segment is expected to account for the larger share of the optical transceivers market. This segment is also projected to register the higher CAGR during the forecast period. This segment's large market share and high growth are attributed to the increased adoption of high-data-rate modules, rising demand for optical communications for low signal attenuation and high bandwidth, expansion of telecom infrastructure, and growing demand for high data transmission,

Based on wavelength, the optical transceivers market is segmented into short-range, long-range, extended-range, and other wavelengths. In terms of value, in 2023, the long-range segment is expected to account for the largest share of the optical transceivers market. The large market share of this segment is attributed to the increasing need to improve data throughput and enhanced signal transmission, along with the need for greater reliability and faster data transfer speeds for long distances. However, the extended-range segment is projected to register the highest CAGR during the forecast period.

Based on protocol, the optical transceivers market is segmented into ethernet, FTTx, fiber channel, CWDM/DWDM, and other protocols. In terms of value, in 2023, the ethernet segment is expected to account for the largest share of the optical transceivers market. The large market share of this segment is attributed to the increasing need for efficient and reliable communication protocols and the rising need to control information passing and avoid simultaneous transmission from multiple systems. However, the fiber channel segment is projected to register the highest CAGR during the forecast period.

Based on data rate, the optical transceivers market is segmented into less than 10 Gbps, 10 Gbps–40 Gbps, 41 Gbps–100 Gbps, and more than 100 Gbps. In terms of value, in 2023, the 10 Gbps–40 Gbps segment is expected to account for the largest share of the optical transceivers market. The large market share of this segment is attributed to the rising need for faster and more reliable internet access and high-speed data transfer rates over long distances in applications, including telecommunication and

data centers. However, the 41 Gbps–100 Gbps segment is projected to register the highest CAGR during the forecast period.

Based on distance, the optical transceivers market is segmented into less than 550m, 551m to 20 km, 21 Km to 50 km, 51 Km to 120 km, and more than 120km. In 2023, in terms of value, the 551m to 20 km segment is expected to account for the largest share of the optical transceivers market. The large market share of this segment is attributed to the growing need for high-speed data transmission and reception of optical signals across a distance of up to 20 km, the rise in high bandwidth-based applications, high-speed data transmission, and the rising network establishment. However, the 21 Km to 50 km segment is projected to register the highest CAGR during the forecast period.

Based on application, the optical transceivers market is segmented into data centers and telecommunication. The data centers segment is further subsegmented into data center interconnects and intra-data center connections. The telecommunication segment is further subsegmented into ultra-long-haul networks, long-haul networks, and metro networks. In 2023, in terms of value, the data centers segment is expected to account for the largest share of the optical transceivers market. This segment is also projected to register the highest CAGR during the forecast period. The large market share and high growth of this market are attributed to the rising utilization of cloud services, the need for high bandwidth in data centers, the growing need to improve the power efficiency of data center infrastructure, and the need to connect more data centers over distances.

Based on geography, the optical transceivers market is segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. In 2023, in terms of value, Asia-Pacific is expected to account for the largest share of the optical transceivers market, followed by North America, Europe, Latin America, and the Middle East & Africa. Asia-Pacific is also projected to register the highest CAGR during the forecast period. The growth of this regional market is attributed to the increasing adoption of optical modules in data centers and 5G & cloud technologies in the region, the growing demand for high-speed data transmission and communication networks, the rising development and initiatives towards enhancing digital infrastructure, the growing need for higher bandwidths.

The key players operating in the optical transceivers market include Acacia Communications, Inc. (U.S.), Accelink Technologies Co., Ltd. (China), Broadcom Inc. (U.S.), Coherent Corp. (U.S.), Lumentum Holdings Inc. (U.S.), Smith Interconnect (U.K.), Sumitomo Electric Industries, Ltd. (Japan), HUBER+SUHNER AG (Switzerland),

Hisense Broadband, Inc. (China), Huawei Technologies Co., Ltd. (China), Juniper Networks, Inc. (U.S.), Smartoptics (Europe), InnoLight (China), HG Genuine Co., Ltd. (China), Eoptolink Technology Inc., Ltd. (China), SHANGHAI TARLUZ TELECOM TECH. CO., LTD. (China), Luxshare Precision Industry Co., Ltd. (China), Amphenol Communications Solutions (U.S.), Fujitsu Optical Components Co., Ltd. (Japan), and Intel Corporation (U.S.).

Key questions answered in the report:

Which are the high growth market segments in terms of form factor, type, wavelength, protocol, data rate, distance, application, and country?

What is the historical market for optical transceivers across the globe?

What are the market forecasts and estimates from 2023–2030?

What are the major drivers, restraints, and opportunities in the optical transceivers market?

Who are the major players in the optical transceivers market, and what are their market shares?

Who are the major players in various countries, and what are their market shares?

How is the competitive landscape?

What are the recent developments in the optical transceivers market?

What are the different growth strategies adopted by major players operating in the optical transceivers market?

What are the geographical trends and high growth countries?

Who are the local emerging players in the optical transceivers market and how do they compete with the other players?

Scope of the report:

Optical Transceivers Market by Form Factor (SFF and SFP; SFP+ and SFP28; XFP; CXP), Data Rate, Wavelength, Typ...

Optical Transceivers Market, by Form Factor

QSFP, QSFP+, QSFP-DD, and QSFP28

SFP, SFP+ and SFP28

CFP, CFP2, and CFP4

XFP (10 Gigabit Small Form Factor Pluggable)

CXP

SFF (Small Form Factor)

Optical Transceivers Market, by Type

Single Mode Fiber

Multimode Fiber

Optical Transceivers Market, by Wavelength

Long-range

Extended-range

Short-range

Other Wavelengths

Optical Transceivers Market, by Protocol

Ethernet

FTTx (Fiber to the x)

Fiber Channel

CWDM/DWDM (Coarse Wavelength Division Multiplexing/Dense Wavelength Division Multiplexing)

Other Protocols

Optical Transceivers Market, by Data Rate

Less than 10 Gbps

10 Gbps–40 Gbps

41 Gbps–100 Gbps

More than 100 Gbps

Optical Transceivers Market, by Distance

Less than 550m

551m to 20 km

21 Km to 50 km

51 Km to 120 km

More than 120km

Optical Transceivers Market, by Application

Data Centers

Data Center Interconnects

Intra-data Center Connections

Telecommunication

Ultra-long-haul Networks

Long-haul Networks

Metro Networks

Optical Transceivers Market, by Geography

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Netherlands

Denmark

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Taiwan

Singapore

Thailand

Indonesia

Vietnam

Philippines

Rest of Asia-Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

UAE

Saudi Arabia

Rest of the Middle East & Africa

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