

Global Optical Transport Network Market Size study & Forecast, by Technology (DWDM, WDM) By Component (Optical Packet Platform, Optical Transport, Optical Switch) By Service (Network Design, Network Optimization, Network Maintenance, Other Support Services) By End-user Application (Communication Service Providers, Network Operators, Enterprises and Organization, Government and Institution) and Regional Analysis, 2023-2030

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Abstracts

Global Optical Transport Network Market is valued at approximately USD 20 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9.9% over the forecast period 2023-2030. An Optical Transport Network (OTN) is a high-capacity telecommunications network that uses optical fibers to transmit large amounts of data over long distances with high bandwidth and scalability. The Optical Transport Network Market is expanding because of factors such as increasing penetration of the internet and growing adoption of 5G networks.

In the modern era, internet usage has experienced significant growth. According to the International Telecommunication Union, in 2021, around 4.9 billion people, which accounts for approximately 63% of the global population, relied on the Internet in 2021. Growing adoption of 5G networks increased the demand for high bandwidth which increased the Optical Transport Network (OTN) Market. According to Statista in 2023, the global number of fifth generation (5G) subscriptions is projected to reach approximately 1.9 billion. This number is expected to rise to around 2.8 billion by 2024 and further grow to approximately 5.9 billion by 2027. In addition, increasing number of

data centers and increasing demand for high-speed data transmission would create a lucrative growth opportunity. However, the high implementation cost and security concerns stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Optical Transport Network Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market during the forecast period owing to the increasing internet penetration and demand for high-speed data transmission increasing the growth in the region. Asia Pacific is the fastest growing region during the forecast period, owing to factors such as, the expansion of internet services, cloud computing, and mobile data is increasing the growth in the APAC region.

Major market player included in this report are:

Nokia Corporation

Ciena Corporation

Cisco Systems Incorporation

Huawei Technologies Co. Ltd

Fujitsu Limited

Zhongxing Telecommunication Equipment Corporation

Infinera Corporation

Telefonaktiebolaget LM Ericsson

NEC Corporation

Yokogawa Electric Corporation

Recent Developments in the Market:

In April 2021, Nokia made an announcement regarding the expansion of its mobile transport portfolio. They introduced a fresh lineup of indoor and outdoor solutions specifically designed for communications service providers and enterprises. The upgraded Wavence portfolio offered a comprehensive microwave solution that catered to a variety of utilization cases.

In February 2021, Nokia and Vodafone joined forces to announce a remarkable milestone in data transmission. They successfully achieved data transmission at an impressive speed of 100 Gbps using a single wavelength over an optical fiber.

Alongside this achievement, Nokia introduced the Bell Labs 100G PON prototype, which made history as the world's first flexible-rate transmission application within a PON (Passive Optical Network) network.

Global Optical Transport Network 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 – Technology, Component, Service, End-User 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 Technology:

DWDM

WDM

By Component:

Optical Packet Platform

Optical Transport

Optical Switch

By Service:

Network Design

Network Optimization

Network Maintenance

Other Support Services

By End-User Application:

Communication Service Providers

Network Operators

Enterprises and Organization

Government and Institution

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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