

Global Optical Network Hardware Market Size study & Forecast, by Equipment (WDM, SONET-SDH) by Application (Smart Cities, Fiber Optic Network, Datacenter, Broadband Infrastructure) and Regional Analysis, 2023-2030

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Abstracts

Global Optical Network Hardware Market is valued approximately USD 5.72 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 4.62% over the forecast period 2023-2030. Optical network hardware refers to the physical equipment and devices used in the construction and operation of optical networks, also known as fiber optic networks. These networks utilize optical fibers, which are thin strands of glass or plastic that transmit data as pulses of light. Optical network hardware is responsible for transmitting, receiving, and managing these light signals for data communication purposes. The Optical Network Hardware market is expanding because of factors such as the increasing development of data centers, increased Fiber to the Home (FTTH) broadband internet penetration, and an increase in the adoption of fiber optic cables in organizations.

Optical network hardware, such as optical transceivers, switches, and routers, plays a crucial role in facilitating the transmission and routing of data over fiber optic networks. As more households and businesses adopt FTTH connections, there is a growing need for robust and efficient optical network infrastructure to support the increased bandwidth demands. According to the Institute of Electrical and Electronics Engineers, the worldwide fixed access broadband subscribers in Q1 2021 reached at 1.2 billion which increased to nearly 1.3 billion at the end of Q1 2022, up by 1.7 percent from the previous quarter. According to United States International Trade Commission, as of year 2021 US has the highest number of data center across the globe, the country has reported more than 2,600 data centers in year 2021 spread across the country. Along

with these the country is witnessing a rise in development and construction of new data centers which is further catering the market growth. Thus, rising Fiber to the Home broadband connection and rising number of data centers is driving the market growth. . In addition, advancement in optical network technologies, rising use of connected virtual devices and growing integration of mobile devices with network services & Wi-Fi is creating a lucrative growth to the market. However, the high cost of optical network hardware stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Optical Network Hardware Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the dominance of key market players, rising development of data centers, and rising bandwidth connections in the region. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising adoption of fiber to the home connection, rising adoption of cloud services, rising internet penetration in the region.

Major market player included in this report are:

Adtran Inc.

ADVA Optical Networking SE

ALE International SAS

Ciena Corp.

Cisco Systems Inc.

E.C.I. NETWORKS INC.

Ekinops SA

FiberHome Telecommunication Technologies Co. Ltd.

Fujitsu Ltd.

Huawei Technologies Co. Ltd.

Recent Developments in the Market:

In February 2023, Nokia has released the PSE-6s, it is a sixth-generation =coherent photonic service engine that can cut network power usage by as much as 60%. Network operators must significantly increase capacity in addition to energy efficiency in order to meet the demand that is only going to grow. The PSE-6s is the driving force behind Nokia's evolution of its optical transport portfolio and enables the effective delivery of high-speed services, such as 800 Gigabit Ethernet (GE), over distances of 2,000 km and beyond. The PSE-6 will be unveiled for the first time at MWC 2023 in Barcelona and once more at OFC in San Diego, California, the following month.

Global Optical Network Hardware 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 – Equipment, 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 Equipment:

Wavelength Division Multiplexing (WDM)

Synchronous Optical Networking and Synchronous Digital Hierarchy (SONET-SDH)

By Application:

Smart Cities

Fiber Optic Network

Datacenter

Broadband Infrastructure

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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