

Global Waveguide Market Size Study & Forecast, by Component (Adapters, Couplers, Loads & Filters, Isolators & Circulators, Phase Shifters, Power Combiners, Pressure Windows), By Type (Rectangular Waveguide, Circular Waveguide, Single Ridged Waveguide, Double Ridged Waveguide, Elliptical Waveguide), By End-user (Aerospace & Defense, Medical, Industrial, Others), and Regional Analysis, 2023-2030

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Abstracts

Global Waveguide Market is valued at approximately USD 1.38 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 5.8% over the forecast period 2023-2030. A waveguide is a type of structure that confines the passage of energy by guiding electromagnetic, radio, or sound waves with the least amount of energy loss. These are employed when an array of devices is connected in order to transmit signals over long distances. This electromagnetic feed line is used for microwave communications, broadcasting, and radar installations. Waveguides are gaining high traction in non-linear devices, optical interferometers, optical communication, and photonic integrated circuits. The surging demand for high-speed data transmission, growing construction activities, increasing advancements in radar and satellite technology, favorable government initiatives, and ongoing development of high-tech products are the factors that are fueling the demand for waveguides in the global market.

The rapid development of the 5G network is exhibiting a positive influence on market growth during the estimated period. The deployment of 5G networks requires high-

frequency communication and transmission capabilities. Waveguides offer proficient and reliable transmission of signals in the millimeter-wave frequency range, which is crucial for 5G networks. According to the 5G Americas- an industry trade organization reported that approximately 1.9 billion of 5G connections were recorded, which is projected to rise and is likely to reach 5.9 billion 5G connections by 2027. Accordingly, the widespread adoption of 5G technology is driving the demand for waveguides during the estimated period. Moreover, the increasing development of radar technologies, as well as the growing adoption of optical interconnects present various lucrative opportunities over the forecasting years. However, the high cost of waveguides and the presence of alternative technologies are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Waveguide Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the rising construction activities, increasing government support, advancing manufacturing facilities, and growing investments in new infrastructure development. For instance, in August 2020, the Prime Minister of India officially opened an exclusive submarine optical fiber cable in order to connect the Andaman and Nicobar Islands with the mainland territory. The administration is focusing on offering high-speed internet data transfer to the residents and improving the local economic growth. Whereas, Europe is expected to grow at the highest CAGR over the forecasting years. The favorable policy framework for digitalizing buildings, as well as the rising development of commercial and residential establishments, are significantly propelling the market demand across the region.

Major market players included in this report are:

Penn Engineering Components Inc.
Jupiter Microwave Components Inc.
Quantic Electronics
Cobham Advanced Electronic Solutions
Ducommun Incorporated
Smith's Interconnect
DigiLens, Inc.
Global Invacom
Flann Microwave Ltd.
Corning Incorporated

Recent Developments in the Market:

In March 2021, Quantic Electronics declared the acquisition of Corry Micronics. Corry

Micronics's product portfolio consists of low-noise amplifiers, multiplexers, RF switches, diplexers, RF (Radio Frequency)/microwave filters, power amplifiers, couplers, power dividers, waveguide components, and configurable RF switch matrices. Corry Micronics's RF and microwave components portfolio complemented Quantic Electronics's existing RF portfolio.

in December 2022, Fairview Microwave, one of the major manufacturers of microwave, RF, and millimeter-wave equipment, introduced a line of waveguide frequency multipliers. The multipliers are made to work with 5G, mobile, satellite, test and measurement, research and development, radar systems, and Earth observation applications.

Global Waveguide 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 - Component, Type, End-user, 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 Component:

Adapters

Couplers

Loads & Filters

Isolators & Circulators

Phase Shifters
Power Combiners
Pressure Windows

By Type:

Rectangular Waveguide
Circular Waveguide
Single Ridged Waveguide
Double Ridged Waveguide
Elliptical Waveguide

By End-user:

Aerospace & Defense
Medical
Industrial
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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