

Global Waveguide Components and Assemblies Market Size study, bySector(Aviation and Defense, Space), by Spectrum (Radio, Microwave, EO/IR, Ultraviolet, X-Ray, Gamma-Ray), by Component (Adapters, Couplers, Loads and Filters, Isolators and Circulators, Duplexers, Phase Shifters, Power Combiners, Pressure Windows) and Regional Forecasts 2022-2028

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Abstracts

Global Waveguide Components and Assemblies Market is valued at approximately USD 1.2 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 4.5% over the forecast period 2022-2028. Waveguide assembly components are required to link the many components that make up a waveguide RF system. These waveguide components function similarly to cables, connecting all Waveguide components in any microwave system, from the transmitter to the antenna. Advances in radar technology, higher demand for microwave devices in electronic warfare systems, and increased launches of satellites and space exploration missions all contribute to the market's lucrative growth potential over the projection period. A new generation of Advanced Electronically Scanned Array (AESA) radars has emerged as a result of advances in solid-state electronics, such as Gallium Nitride (GaN). These radars can track multiple targets and have better target detection capabilities. They also have a longer range and more functions than previous vacuum tube-based radars. These features have resulted in widespread adoption, with obsolete TWT and klystron-based radars being replaced by these new systems. India, Russia, and China are among the countries developing new AESA radars for aerial, naval, and land-based platforms. Russia, for example, has developed the Zhuk Phazotron AE radar for use in

MiG-35 aircraft, an upgraded version of the MiG-29. India has also upgraded its Jaguar fighter planes with new Israeli ELM-2052 AESA radars. Because waveguides are essential for military radars to function, a surge in demand for military radars is expected to drive the volumes of waveguides required to be integrated into such systems, thereby driving the waveguide components and assemblies market during the forecast period. Nonetheless, during the forecast period, the demand for new-generation warfare systems and high-rate data transmission will open several growth opportunities for waveguide component and assembly manufacturers. However, challenges related to inadequate signal transmission function as a stumbling block to the expansion of end-use systems, negatively impact the waveguide components and assemblies market.

The key regions considered for the global Waveguide Components and Assemblies market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is predicted to overtake Europe as the main market for waveguide components and assemblies by 2030, according to geography. Because of the expanding need for radar systems, which encourages the growth of waveguide components in the aerospace industry, the United States is expected to be the leading contributor to the region's waveguide components and assemblies market. Whereas, due to technological improvements in the region, Asia Pacific is expected to have the highest demand for waveguide converters from 2019 to 2027. During the projection period, the presence of a large number of waveguide converters manufacturers is likely to boost demand for waveguide converters in the region.

Major market players included in this report are:

Quantic Electronics

Millimeter Wave Products Inc.

Cobham Limited

Ducommun Incorporated

Etl Systems

Sas Industries, Inc.

Teledyne Technologies Inc.

Northrop Grumman Corporation

M2 Global Technology Ltd.

Eravant

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 eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors &

challenges which will define the future growth of the market. Additionally, the report shall also incorporate available 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:

BySector:

Aviation and Defense

Space

By Spectrum:

Radio

Microwave

EO/IR

Ultraviolet

X-ray

Gamma-ray

By Component:

Adapters

Couplers

Loads and Filters

Isolators and Circulators

Duplexers

Phase Shifters

Power Combiners

Pressure Windows

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
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Waveguide Components and Assemblies Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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