

Global RF-Over-Fiber Market Size study & Forecast, By Component (Optical Cables, Optical Transceivers, Others), by Deployment (Aerial, Underground, Underwater), by Frequency Band (L, S, C, X, Ku, Ka), by Application (Communication, Navigation, Broadcast, Radar, Broadband), by Industry (IT & Telecommunication, Marine, Others) and Regional Analysis, 2023-2030

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Abstracts

Global RF-Over-Fiber Market is valued at approximately USD 545.48 million in 2022 and is anticipated to grow with a healthy growth rate of more than 7.9% during the forecast period 2023-2030. RF-Over-Fiber (RFoF) is the method of transforming a radio wave (RF) into light by modulating the intensity of a light source (usually a laser) with an RF signal. This is an analog technique with no digitalization. The light signal is then delivered using a fiber optic cable, which replaces and outperforms standard copper coax cable. The RF-Over-Fiber Market is expanding because of factors such as rising demand for High Bandwidth communication solutions, increased adoption of fiber optic technology due to its high-speed data transmission over large distances without signal loss and increasing use of VOIP, LTE advanced, 5G, and 4G technologies.

RFoF technology emerges as a critical enabler as industries, particularly telecommunications, IT, and defense, try to fulfil the ever-increasing demand for low latency, dependable connectivity, and data transfer speeds. The proliferation of applications, including 5G networks, communication systems for the government and military, and data-intensive operations, requires sophisticated technologies that can effectively transfer radio frequency signals over fiber-optic cables. To meet the

increasing demand for increased bandwidth capacity worldwide, (RFoF) provides a dependable and high-performing communication infrastructure, placing it at the forefront of technical innovation. According to GSMA Intelligence, In January 2023, there were 229 commercial 5G networks worldwide. 5G connections are anticipated to quadruple over the next two years, according to new data from GSMA Intelligence. This growth is accelerated by technology advancements and new 5G network deployments in over 30 countries in 2023 alone. Also, according to Statista, Globally, there were over two billion 5G mobile subscriptions in 2022; by 2026, that number was expected to rise to nearly five billion. The technology's ability to reduce system weight and size by eliminating the need for huge coaxial cables is highly valuable in the aerospace and defense industries. Furthermore, the use of Fiber-to-the-X (FTTX) architectures, which include FTTH, FTTP, and other variants, is growing. Because these systems deliver high-speed internet and data services, generating valuable market opportunities. However, the extensive testing procedure connected with assuring the robust performance of RF-Over-Fiber (RFoF) systems is a key barrier for the RF-over-Fiber sector, stifling market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global RF-Over-Fiber Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022. This dominance can be attributed to factors such as technological advancements particularly in the US, High demand for safe, secure, and rapid communication systems and growing infrastructural developments in the region. Asia Pacific is expected to grow significantly over the forecast period, owing to factors such as the booming telecommunications sector, marked by rapid urbanization and a surge in mobile communication infrastructure, which has increased the demand for efficient and dependable RFoF solutions. Furthermore, the increasing implementation of 5G networks, which require faster data transfer rates and lower latency, has increased demand for RFoF technology, which transmits radio frequency signals effectively via fiber-optic cables.

Major market player included in this report are:

EMCORE Corporation

APIC Corporation

Optical Zonu Corp

Gooch & Housego PLC

Broadcom Inc.

HUBER+SUHNER

Seikoh Giken Co., Ltd

ETL Systems Ltd

Coherent Corporation

Fujikura Ltd.

Recent Developments in the Market:

In September 2023, Coherent Corp. introduced the pump laser module with 1200 mW output power in a 10-pin butterfly package to meet the needs of erbium-doped fiber amplifiers (EDFAs) in optical networks. The advanced pump lasers answer the expanding needs of the RF Over Fiber Market by providing additional power required for amplifying a greater number of channels in next-generation ultra-broadband optical transmission systems.

In January 2023, HUBER+SUHNER's MFBX Evo, introduced a modular design, promoting resource efficiency by allowing connector parts to be used in multiple connections, reaping economies of scale. High tolerance compensation between boards in the solution adds to limitless design alternatives, lowering the Total Cost of Ownership (TCO). The MFBX Evo offers versatility without sacrificing outstanding electrical values, with the capacity to handle axial misalignment of $\pm 0.8\text{mm}$ and radial misalignment of $\pm 0.7\text{mm}$ at 17mm.

In March 2023, Broadcom Inc. released the BCM85812, a 5nm 100G/lane optical PAM-4 DSP PHY with an integrated trans-impedance amplifier (TIA) and laser driver. It is intended for use with 800G DR8, 2x400G FR4, and 800G AOC modules. Because it is based on Broadcom's tried-and-true 5nm 112G PAM-4 DSP architecture, this completely embedded DSP PHY provides better performance and efficiency.

Global RF-Over-Fiber Market Report Scope:

Global RF-Over-Fiber Market Size study & Forecast, By Component (Optical Cables, Optical Transceivers, Others)...

Historical Data – 2021 - 2022

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Deployment, Frequency Band, Application, Industry, 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:

Optical Cables

Optical Transceivers

Others

By Deployment:

Aerial

Underground

Underwater

By Frequency Band:

L

S

C

X

Ku

Ka

By Application:

Communication

Navigation

Broadcast

Radar

Broadband

By Industry:

IT & Telecommunication

Marine

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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