

Global 5G Testing Equipment Market Size study & Forecast, by Equipment Type (Oscilloscope, Signal Generator, Spectrum Analyzer, Network Analyzer, Others), by Application (Lab Testing, Performance Testing, Wireless and RF Testing), by End-User (Telecom Equipment Manufacturers, IDMs & ODMs, Others) and Regional Analysis, 2023-2030

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Abstracts

Global 5G Testing Equipment Market is valued at approximately USD 1.69 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 9.7% during the forecast period 2023-2030. 5G Testing Equipment refers to the specialized tools and devices used to test and validate the performance, functionality, and compliance of 5G wireless communication networks. The 5G technology evolves and becomes more widespread, to ensure that the network infrastructure, devices, and applications meet the specified standards and deliver the expected level of performance. The 5G Testing Equipment Market is expanding because of factors such as rising usage of IoT and connected devices and growing 5G network traffic. 5G testing equipment plays a vital role in the development, deployment, and maintenance of 5G networks, contributing to the reliability and performance of the next-generation wireless communication technology. As a result, the demand for 5G Testing Equipment has progressively increased in the international market during the forecast period 2023-2030.

5G networks are designed to support a massive number of connected devices simultaneously. IoT devices, ranging from sensors to smart appliances, contribute to this massive connectivity. Testing equipment needs to simulate and handle scenarios with a high density of devices to ensure that the network can efficiently manage the increased traffic. According to Statista, in 2020 there were 9.76 billion Internet of Things

(IoT) connected devices globally and projected to reach up to 29.42 billion IoT-connected devices by the year 2030. Furthermore, it is expected that the consumer sector takes the lead in the quantity of Internet of Things (IoT) connected devices, accounting for about 17 billion connected devices globally by the year 2030. Another important factor that drives the 5G Testing Equipment Market is increasing 5G network traffic. The higher data speeds and lower latency of 5G networks result in increased data traffic. Testing equipment is essential to evaluate the network's capacity to handle this surge in data, ensuring that it can support the growing number of connected devices and applications without compromising performance. In addition, as per Statista, the number of 5G connections accounts for 0.13 billion in 2020 and is projected to grow up to 2.7 billion by the year 2025 globally. Moreover, the growing demand for high-speed internet and the surge in customer spending on smartphones and digitalization are anticipated to create lucrative growth opportunities for the market over the forecast period. However, technological complexities and high cost associated with 5G Testing Equipment is going to impede overall market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global 5G Testing Equipment Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the increasing deployment of 5G network infrastructure and the presence of significant network service provider companies in the region. Network service providers strive to optimize the performance of their 5G networks to meet the increasing demands for data speed, low latency, and reliable connectivity. Testing equipment is employed to assess and optimize the performance of various network elements, including base stations, antennas, and core infrastructure. The region's dominant performance is anticipated to propel the overall demand for 5G Testing Equipment. Furthermore, Asia Pacific is expected to grow fastest over the forecast period, owing to factors such as rising focus on deploying 5G network infrastructure for the media and entertainment and growing demand for smartphones in the region.

Major market player included in this report are:

Keysight Technologies

Anritsu Corporation

VIAMI Solutions Inc.

National Instruments Corporation

Tektronix, Inc.

Artiza Networks, Inc.

Mobileum Inc.

Teradyne Inc.

Spirent Communications plc

EXFO Inc.

Recent Developments in the Market:

In October 2022, EXFO, renowned experts in testing, monitoring, and analytics for the communications industry, announced the advantages stemming from a USD 15.9 million funding initiative from the federal government. This substantial support is poised to expedite the development of 5G technology and foster job creation. With this funding, EXFO aims to establish a 5G Centre of Excellence in Montreal, paving the way for the creation of 50 high-skilled job opportunities, primarily concentrated in the Montreal area.

Global 5G Testing Equipment 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 Type, Application, 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 Equipment Type

Oscilloscope

Signal Generator

Spectrum Analyzer

Network Analyzer

Others

By Application

Lab Testing

Performance Testing

Wireless and RF Testing

By End-User

Telecom Equipment Manufacturers

IDMs & ODMs

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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