

Wireless Testing Market by Offering (Equipment, Services), Technology (5G, Bluetooth, Wi-Fi, 2G/3G, 4G/LTE, GPS/GNSS), Application (Consumer Electronics, IT & telecommunication, Medical Devices, Aerospace & Defense) & Region - Global Forecast to 2029

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Abstracts

The wireless testing market is projected to grow from USD 22.6 billion in 2024 to USD 34.1 billion by 2029, registering a CAGR of 8.6% during the forecast period.

Some of the major factors driving the growth of the wireless testing market include rising global adoption of smartphones and smart gadgets and growing adoption of cloud computing and IoT technologies. However, Lack of standardization in connectivity protocols act as a challenge for the market in the future. The major growth opportunities for the market players are the adoption of autonomous driving and adoption of Wi-Fi 6 (802.11ax) and Wi-Fi 6E with enhanced wireless capabilities.

'Market for consumer electronics expected to have the highest CAGR during the forecast period.'

The consumer electronics segment of the wireless testing market is expected to witness the highest CAGR during the forecast period. With an emphasis on making gadgets compact and smart, wireless testing is crucial to the consumer electronics sector. In addition, before to being on sale, all consumer electronics must undergo testing for functionality, safety, and effectiveness. These goods are therefore put through end-of-line production testing, integration testing, and component testing. Consumer electronics, including tablets and smartphones, primarily make use of LTE, UMTS, and

GSM technologies. Near-field communication (NFC), Bluetooth, cellphone, Wi-Fi, and other wireless technologies that are integrated into consumer gadgets are all tested by the testing service providers.

' Research & Development segment expected to register the highest CAGR during the forecast period.'

The research & development segment is expected to account for the highest CAGR in the forecast period. Wireless testing is a crucial component of the research and development (R&D) process in the field of wireless technologies. In the R&D phase, testing is employed to validate, optimize, and ensure the performance, reliability, and security of new wireless technologies, devices, or features. Along with research and demonstration efforts for constructing 5G networks in private domains, such as private 5G, research and development for 5G use in the automotive area has started. The need to create 5G wireless modules and Wi-Fi 6E has arisen, which is fueling the demand for wireless testing. In addition, development has started on the 6G standard, the next generation of communication.

'North America to account for the second highest market share among other regions in 2023.'

In 2023, North America accounted for the second largest share of the wireless testing market. Most of the leading players in the wireless testing market are based in this region. The increased spending on the research and development (R&D) of the Internet of Things (IoT) is driving the growth of the wireless testing market. The growing R&D at academic and industry levels are broadening IoT/wireless testing application areas in different end-user industries, such as consumer electronics, automotive, and medical devices, especially in North America.

The transition from 4G to 5G networks has generated lucrative growth opportunities for wireless network test equipment providers in the region. North America is a major hub for technological innovations. It is also an early adopter of new and advanced technologies. Major players, such as Keysight and VIAVI Solutions, among others in the region, support the demand for new technologies and help increase awareness regarding these technologies.

In determining and verifying the market size for several segments and subsegments gathered through extensive secondary research, primary interviews have been conducted with key industry experts in the wireless testing market.

The break-up of primary participants for the report has been shown below:

By company type: Tier 1 - 38%, Tier 2 - 28%, and Tier 3 - 34%

By designation: C-Level Executives - 40%, Managers - 30%, and Others - 30%

By region: North America - 35%, Europe - 20%, Asia Pacific - 35%, and RoW - 10%

The report profiles key players in the wireless testing market with their respective market ranking analyses. Prominent players profiled in this report include SGS Group (Switzerland), Bureau Veritas (France), Intertek (UK), DEKRA SE (Germany), Anritsu (Japan), ALifecom Technology (Taiwan), Keysight Technologies (US), Rohde & Schwarz (Germany), VIAVI Solutions (US), T?V NORD Group (Germany), and among others.

Research Coverage

This research report categorizes the wireless testing market based on technology, end-user industry, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the wireless testing market and forecasts the same till 2029. The report also consists of leadership mapping and analysis of companies in the wireless testing ecosystem.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall wireless testing market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (advancements in wireless technology, increasing focus

on deployment of 5G network, rising global adoption of smartphones and smart gadgets, and growing adoption of cloud computing and IoT technologies), restraints (high investments involved in establishing electromagnetic compatibility (EMC) testing facilities, high equipment cost and lack of skilled workforce, and lack of standardization in connectivity protocols), opportunities (growing popularity of automated cars and rising adoption of Wi-Fi 6 and Wi-Fi 6E), and challenges (long lead time required for overseas qualification tests and requirement for constant upgrading of equipment and services with technological advancements) influencing the growth of the wireless testing market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the wireless testing market

Market Development: Comprehensive information about lucrative markets – the report analyses the wireless testing market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the wireless testing market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product/service offerings of leading players like SGS Group (Switzerland), Bureau Veritas (France), Intertek (UK), DEKRA SE (Germany), Anritsu (Japan), ALifecom Technology (Taiwan), Keysight Technologies (US), Rohde & Schwarz (Germany), VIAVI Solutions (US), T?V NORD Group (Germany), and among others in the wireless testing market.

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