

North America Wireless Testing Market Report (2021-2031) by Scope, Segmentation, Dynamics, and Competitive Analysis

<https://marketpublishers.com/r/NF59B9B6E7F3EN.html>

Date: August 2025

Pages: 154

Price: US\$ 3,450.00 (Single User License)

ID: NF59B9B6E7F3EN

Abstracts

The North America wireless testing market was valued at approximately \$4.79 billion in 2023 and is projected to grow to around \$10.55 billion by 2031, reflecting a compound annual growth rate (CAGR) of 10.4% during this period.

Growth Driven by 5G Deployment

The rapid deployment of 5G technology is a significant driver of growth in the North American wireless testing market. This acceleration is fueled by substantial investments from both government and private sectors. According to the GSM Association, within just four years of its introduction, 5G connections worldwide exceeded 1.5 billion by the end of 2023, marking it as the fastest-growing mobile broadband technology. As of 2023, around 300 commercial 5G networks have been launched globally, reaching about 40% of the global population outside of Mainland China. This coverage is expected to expand to 80% by 2029, indicating a robust rollout pace.

Additionally, by the end of 2023, 123 operators across 62 markets had initiated 5G fixed wireless access (FWA) services, with over 40% of these networks offering FWA capabilities. 5G technology represents a significant advancement in wireless communication, providing ultra-fast speeds, low latency, and the ability to connect a vast number of devices, which is essential for emerging technologies such as the Internet of Things (IoT), autonomous systems, and smart cities.

5G networks are designed to support billions of IoT devices, necessitating rigorous testing for various frequencies, data rates, and battery performance. The resilience of these networks against cyber threats is also critical, given the increasing number of

connected devices and the importance of mission-critical applications. Wireless testing plays a vital role in ensuring that diverse IoT sensors, traffic management systems, and environmental monitoring devices operate efficiently with low power consumption and minimal interference. Security testing is crucial for validating encryption, authentication protocols, and the overall security framework of 5G networks, further driving the demand for wireless testing services.

Overview of the North America Wireless Testing Market

The consumer electronics sector in North America is witnessing a surge in demand for wireless testing due to the growing number of connected devices and the complexity of wireless technologies. This complexity necessitates thorough testing for compliance, safety, and performance. Key players in the North American market include EXFO, Intertek Group Plc, ThinkPalm, and SGS SA, which provide a range of testing products and services.

The healthcare sector is also expanding in North America, with an increasing number of hospitals and laboratories. The integration of modern technologies and IoT in healthcare is expected to further enhance the demand for wireless testing in this field. For instance, UL, a prominent global safety science organization, expanded its facility in Fremont, California, in 2018 to accommodate the growing need for testing and certification services across various industries. This expansion included a state-of-the-art 39,000-square-foot building and one of the largest laboratories for electromagnetic compatibility (EMC) and wireless testing.

Market Segmentation Analysis

The North America wireless testing market is segmented by offering, technology, application, and country:

By Offering: The market is divided into equipment and services, with the equipment segment, which includes wireless device testing and wireless network testing, holding a larger market share in 2023.

By Technology: The market is categorized into Bluetooth, Wi-Fi, GPS, 2G/3G, 4G/LTE, and 5G, with Bluetooth capturing the largest share in 2023.

By Application: The market is segmented into consumer electronics, automotive,

IT and telecommunications, energy and power, medical devices, aerospace and defense, industrial, and others. The IT and telecommunications sector held the largest share in 2023.

By Country: The market is divided into the US, Canada, and Mexico, with the US accounting for the largest share in 2023.

Key Players in the Market

Leading companies in the North America wireless testing market include Anritsu Corp, Bureau Veritas SA, DEKRA SE, EXFO Inc., Intertek Group Plc, Rohde and Schwarz GmbH and Co KG, SGS SA, ThinkPalm Technologies Pvt. Ltd., TUV Rheinland AG, and Viavi Solutions Inc. These companies are at the forefront of providing innovative testing solutions to meet the growing demands of the wireless testing market.

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