

5G Device Testing Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis Report Coverage: By Components (Hardware, Software, and Services); and End User (Telecom Equipment Manufacturers, Original Device Manufacturers, Telecom Service Providers, and Others)

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Abstracts

The 5G device testing market size is expected to grow from US\$ 1.90 billion in 2022 to US\$ 3.70 billion by 2030; it is anticipated to expand at a CAGR of 8.7% from 2022 to 2030.

The growth of the 5G device testing market is influenced by various factors, including the increasing need for electromagnetic interference (EMI) protection and electromagnetic compatibility (EMC) testing. As 5G technology continues to gain traction in diverse industries, it becomes imperative to guarantee the resilience of the equipment and devices deployed in these networks against EMI and their compliance with EMC standards.

The higher frequency bands and complexity associated with 5G networks amplify the risk of EMI interference. Such interference can harm the performance and reliability of 5G devices, leading to problems such as dropped calls, data loss, and reduced network efficiency. Consequently, comprehensive testing procedures are indispensable to identify and mitigate potential EMI-related challenges. Moreover, adherence to EMC standards is paramount to ensure seamless coexistence and optimal operation of 5G devices alongside other electronic systems without causing any interference. EMC testing evaluates the compatibility of devices concerning emissions and susceptibility to

external electromagnetic disturbances, that can further provide ample opportunities for 5G device testing market. The demand for device testing in the 5G market is primarily driven by the need to fulfill regulatory requirements and ensure the smooth functioning of 5G networks. Testing laboratories and manufacturers are critical in offering extensive EMI protection and EMC testing services for 5G devices. Through meticulous testing, they aid in identifying and resolving potential issues, ensuring that 5G devices meet the requisite standards and perform optimally in real-world scenarios which can further boost the 5G device testing market.

Research and Development endeavors in the 5G device testing market concentrate on creating sophisticated test equipment capable of precisely measuring and analyzing the performance of 5G devices. This encompasses the development of tools for signal generation, signal analysis, and protocol testing. The ultimate objective is to establish solutions that effectively assess the intricate functionalities of 5G devices across varying frequency bands and network configurations. R&D activities also focus on developing methodologies and tools for comprehensive performance testing of 5G devices. This entails evaluating data speed, latency, network coverage, and reliability. Advanced testing techniques, such as massive MIMO (Multiple Input Multiple Output) testing and beamforming analysis, are employed to assess the performance of 5G devices in real-world scenarios. For instance, In July 2023, as part of the 'Research and Development Project of the Enhanced Infrastructures for Post-5G Information and Communication Systems' led by the New Energy and Industrial Technology Development Organization (NEDO), NEC Corporation (NEC) and Fujitsu Limited (Fujitsu) are engaged in the research and development of a technology aimed at testing the compatibility and interaction of post-5G base stations that adhere to O-RAN specifications. This collaborative effort involved the establishment of a connectivity testing environment at NEC's U.K. laboratories and Fujitsu's U.S. laboratories, where tests were conducted between August 2021 and June 2023.

The research and development efforts in the 5G device testing market are instrumental in propelling the capabilities of 5G technology and facilitating its successful deployment. Through continuous innovation and rigorous testing, researchers and engineers contribute to the creation of reliable, secure, and high-performing 5G devices that can effectively meet the evolving needs of consumers and industries, all these can contribute to 5G device testing market.

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