

5G Testing Equipment Market Outlook 2025-2034: Market Share, and Growth Analysis By Equipment Type (Oscilloscopes, Signal Generators, Spectrum Analyzers, Network Analyzers, Other Equipment Types), By Revenue Source (New, Rental), By Application, By End-User

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Abstracts

The 5G Testing Equipment Market is valued at USD 3.3 billion in 2025 and is projected to grow at a CAGR of 8.8% to reach USD 7 billion by 2034. The 5G testing equipment market is a vital sector focused on providing the tools and solutions necessary to ensure the performance, reliability, and interoperability of 5G networks and devices. This market encompasses a wide range of testing equipment, including signal analyzers, signal generators, channel emulators, and over-the-air (OTA) testing systems. 5G testing equipment is crucial for validating the performance of 5G technologies in various environments.

The market is characterized by rapid innovation in testing methodologies, software, and hardware. The development of advanced testing platforms that support mmWave and sub-6 GHz frequencies is driving the market forward. The integration of AI and machine learning is also enhancing test automation and analysis. Furthermore, the increasing adoption of cloud-based testing solutions is enabling remote testing and collaboration. The market is also seeing a trend towards end-to-end testing, which validates the performance of 5G networks and devices in real-world scenarios.

Geographically, the 5G testing equipment market is expanding globally, with significant activity in regions with strong telecommunications and electronics industries. Developed regions are leading the way in technology adoption, driven by their advanced testing

infrastructure and research capabilities. Emerging economies are also investing heavily in 5G testing equipment to support their growing telecommunications sectors. The market's future is promising, with continuous innovation and increasing adoption expected to drive growth.

Key Insights 5G Testing Equipment Market

Over-the-Air (OTA) Testing: Increased adoption of OTA testing for mmWave and sub-6 GHz frequencies.

Channel Emulation: Use of channel emulators to simulate real-world radio conditions.

AI and Machine Learning for Test Automation: Integration of AI for automated test execution and analysis.

Cloud-Based Testing: Adoption of cloud platforms for remote testing and collaboration.

End-to-End Testing: Validation of 5G network and device performance in real-world scenarios.

5G Network Deployment: Rapid deployment of 5G networks globally.

Complexity of 5G Technologies: The complexity of mmWave and sub-6 GHz frequencies requires advanced testing solutions.

Need for Interoperability: Ensuring interoperability between 5G networks and devices.

Demand for High Performance: Need for high-performance 5G networks and devices to support advanced applications.

Regulatory Requirements: Compliance with regulatory standards for 5G networks and devices.

High Testing Costs: The high cost of advanced 5G testing equipment.

Technological Complexity: The complexity of testing mmWave and sub-6 GHz frequencies.

Testing Time: The time-consuming nature of 5G testing.

Evolving Standards: Keeping up with evolving 5G standards.

Talent Shortage: Shortage of skilled professionals with expertise in 5G testing.

5G Testing Equipment Market Segmentation

By Equipment Type

Oscilloscopes

Signal Generators

Spectrum Analyzers

Network Analyzers

Other Equipment Types

By Revenue Source

New

Rental

By Application

Lab Testing

Performance Testing

Wireless And RF Testing

By End-User

Telecom Equipment Manufacturers

Original Device Manufacturers (ODMs)

Telecom Service Providers

Other End-Users

Key Companies Analysed

AT&T Inc.

Tektronix

Keysight Technologies Inc.

Intertek Group plc

Molex LLC

Rohde & Schwarz

VIAVI Solutions Inc.

Trex Enterprises Corporation

MACOM Technology Solutions

Spirent Communications plc

LitePoint

EXFO Inc.

Inseego Corp.

Microlease PLC

SIGLENT Technologies

ETS Lindgren Ltd.

Prisma Telecom Testing

Azimuth Systems

TMY Technology Inc.

Anritsu Corporation

PCTEST Engineering Laboratory In

Calnex Solutions Ltd.

Amarisoft

RADX Technologies

Boonton Electronics

ThinkRF Corp.

Fibocom Wireless Inc.

5G Testing Equipment Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

5G Testing Equipment Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — 5G Testing Equipment market data and outlook to 2034

United States

Canada

Mexico

Europe — 5G Testing Equipment market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — 5G Testing Equipment market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — 5G Testing Equipment market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — 5G Testing Equipment market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the 5G Testing Equipment value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the 5G Testing Equipment industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the 5G Testing Equipment Market Report

Global 5G Testing Equipment market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on 5G Testing Equipment trade, costs, and supply chains

5G Testing Equipment market size, share, and outlook across 5 regions and 27 countries, 2023-2034

5G Testing Equipment market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term 5G Testing Equipment market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and 5G Testing Equipment supply chain analysis

5G Testing Equipment trade analysis, 5G Testing Equipment market price analysis, and 5G Testing Equipment supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest 5G Testing Equipment market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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