

# **Communication Test Sets for 2G/3G/4G Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Communication System (Wired, Wireless (Bluetooth, 2G/3G, 4G/5G, Wi-Fi)), By Test Type (Network Assurance Test, Lab and Manufacturing Test, Field Network Test, Enterprise Test), By End User Industry (IT & Telecommunication, Automotive, Defense, Entertainment, Others) By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/C0E02EC6D9A0EN.html>

Date: May 2026

Pages: 177

Price: US\$ 4,500.00 (Single User License)

ID: C0E02EC6D9A0EN

## **Abstracts**

The Global Communication Test Sets for 2G/3G/4G Market is projected to grow from USD 2.96 Billion in 2025 to USD 4.66 Billion by 2031 at a 7.86% CAGR. These test sets are dedicated tools designed to guarantee that mobile networks utilizing second, third, and fourth-generation technologies maintain peak performance, functionality, and compliance with industry standards. The market's expansion is fueled by the ongoing necessity for quality control and network optimization, alongside a rising need for dependable mobile broadband connectivity. Highlighting this vast reach, the GSMA's 'State of Mobile Internet Connectivity Report 2025' indicated that 4G networks covered 93% of the global population in 2025, illustrating a massive infrastructure that requires continuous evaluation.

A major hurdle hindering market growth is the underlying difficulty of coordinating the coexistence and seamless interoperability of older 2G and 3G frameworks with modern 4G/LTE systems, especially during the shift toward 5G. Guaranteeing flawless operation across these varied technological generations necessitates highly advanced testing protocols. Emphasizing this operational intricacy, the GSA's 'Public Mobile Networks –

December 2025' report highlighted that 841 network operators were providing LTE mobile and broadband services as of November 2025, demonstrating the critical need for targeted and sophisticated testing instruments.

## **Market Driver**

The continued worldwide dependence on older mobile network generations acts as a main catalyst for the communication test sets market, given that 2G, 3G, and 4G systems still connect an immense number of subscribers globally. Even with the current push toward 5G, these entrenched networks require persistent upkeep, refinement, and strict evaluation to ensure uninterrupted and high-quality service. This lasting need stems from their extensive geographic coverage and ongoing usage for voice, text, and data transmission. Reinforcing the enduring relevance of these networks, Ericsson's Q4 2025 Mobility Report revealed that global 4G subscriptions stood at a massive 4.7 billion.

Another crucial factor propelling the market is the proliferation of Internet of Things (IoT) hardware that relies on 2G, 3G, and 4G networks. These established infrastructures deliver economical and dependable connections for various IoT uses, such as asset tracking and smart metering, which demand rigorous assessments of long-term stability, network efficacy, and device compatibility. The incorporation of an expanding array of distinct IoT gadgets amplifies the requirement for specialized testing equipment to confirm network health and efficient data flow. By the close of 2025, Ericsson's Mobility Report noted roughly 4.5 billion cellular IoT connections worldwide. Additionally, ongoing funding for foundational infrastructure points to a sustained need for testing tools, supported by Nokia's Q4 2025 Financial Report from January 2026, which documented a 7% increase in net sales for its Network Infrastructure division.

## **Market Challenge**

The fundamental difficulty of handling the simultaneous operation and interoperability of older 2G/3G systems alongside modern 4G/LTE networks acts as a direct barrier to the expansion of the global market for these communication test sets. Telecommunications operators encounter significant hurdles in maintaining flawless connectivity across these varied platforms, particularly as they concurrently navigate the rollout of 5G. Such a complicated technological ecosystem requires unwavering and strict testing procedures.

The ongoing need to operate these legacy networks while steadily phasing them out results in a highly complicated testing environment. To illustrate, the GSA's "LTE

Ecosystem September 2025" report indicated that 841 operators maintained active LTE networks in August 2025, proving the lasting footprint of 4G. At the same time, GSMA Intelligence reported in January 2025 that 61 legacy 2G and 3G networks were scheduled to close that year, out of 131 closures projected by 2030. Juggling both enduring systems and retiring infrastructures heightens operators' operational strain, frequently causing them to delay spending on new test sets for 2G, 3G, and 4G. The formidable task of thoroughly evaluating hybrid networks results in sluggish uptake of testing solutions, primarily because providers focus on securing current services rather than buying sophisticated instruments for this complex transitional phase, thereby restricting market growth.

## **Market Trends**

A prominent industry trend is the consolidation of Multi-Radio Access Technology (Multi-RAT) testing platforms, necessitated by the intricate coordination of overlapping 2G, 3G, and 4G networks amidst the shift to 5G. This movement merges varied testing capabilities for different network eras into single, cohesive systems, thereby simplifying workflows and minimizing reliance on multiple distinct devices. Network operators are pursuing all-inclusive solutions to effectively validate handovers between technologies and maximize resource distribution across diverse radio formats. Consequently, this drives market demand for adaptable test sets capable of managing a wider array of mobile standards through one interface. Highlighting this surge in demand, Keysight Technologies shared in its Q1 2026 earnings report from February 2026 that its Communications Solutions Group (CSG) experienced a 27% year-over-year revenue increase.

Another critical trend shaping the market is the heightened emphasis on remote and automated testing capabilities. As network frameworks become larger and more spread out, traditional hands-on testing approaches are increasingly viewed as expensive and impractical. Consequently, operators are turning to automation to speed up evaluation cycles, cut down on manual mistakes, and facilitate ongoing performance tracking without the need for technicians on-site. The ability to test remotely allows for centralized troubleshooting and problem-solving, which significantly improves operational workflows and minimizes service interruptions across 2G, 3G, and 4G networks. This shift demands test sets built with sophisticated automation and remote access features, ultimately sparking further advancements in software-oriented testing instruments, as demonstrated by Spirent Communications' March 2026 reveal of its Landslide M6 platform, which offers up to a tenfold performance increase for large-scale mobile core network validation.

## Key Market Players

ANRITSU CORPORATION

Fortive Corporation

EXFO Inc.

Rohde & Schwarz GmbH & Co. KG

Agilent Technologies Inc.

Ixia Technologies International Limited

Yokogawa Test & Measurement Corporation

Texas Instruments Incorporated

Spirent Communications Plc

Danaher Corporation

## Report Scope

In this report, the Global Communication Test Sets for 2G/3G/4G Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Communication Test Sets for 2G/3G/4G Market, By Communication System

Wired

Wireless

Communication Test Sets for 2G/3G/4G Market, By Test Type

Network Assurance Test

Lab and Manufacturing Test

Field Network Test

Enterprise Test

Communication Test Sets for 2G/3G/4G Market, By End User Industry

IT & Telecommunication

Automotive

Defense

Entertainment

Others

Communication Test Sets for 2G/3G/4G Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Communication Test Sets for 2G/3G/4G Market.

## **Available Customizations:**

Global Communication Test Sets for 2G/3G/4G Market report with the given market

*Communication Test Sets for 2G/3G/4G Market – Global Industry Size, Share, Trends, Opportunity, and Forecast,...*

data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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