

# Global 6G Testing Equipment Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB1E1CBFF315EN.html>

Date: January 2026

Pages: 99

Price: US\$ 4,480.00 (Single User License)

ID: GB1E1CBFF315EN

## Abstracts

The global 6G Testing Equipment market size is expected to reach \$ 75.73 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032). 6G testing equipment refers to a range of specialized tools and devices used to test, validate, and optimize the performance of 6G networks and devices. These testing solutions are essential during the development, deployment, and maintenance phases of 6G infrastructure and devices to ensure they meet the required standards and deliver reliable, high-quality services. The price of this type of product is around \$100,000 to \$200,000 per unit, with some variation depending on the type.

Upstream, 6G testing equipment is assembled from a supply chain that combines high-frequency RF/microwave hardware (signal generators/analyzers, VNAs, mixers and sub-THz frequency extenders), high-speed data-conversion and compute (digitizers/ADCs-DACs, FPGA/SoC processing, timing/synchronization), precision calibration assets, and crucially for 6G-style large antenna arrays over-the-air (OTA) test infrastructure such as shielded anechoic/MPAC or CATR-style chambers, probes, absorbers, positioning systems, and the channel/network emulation + control software that ties setups together. Downstream, these systems are bought and used by telecom OEMs, chipmakers, device makers, universities and research labs, and certification/conformance labs to validate candidate 6G radios and networks as standardization ramps (e.g., 3GPP Rel-20/Rel-21 6G work), and in later phases they flow into manufacturing test especially wafer sort and final test environments where automated test equipment (ATE) and probers screen and calibrate RF/high-speed ICs before packaging.

By 2030, the first deployment of 6G-enabled devices will beat a speed of 1 Tbp/s. Once the market picks up, the CAGR for the next 5 years is estimated to be around 25%, as 6G will drive growth in urban as well as rural areas. Connectivity will be the key focus for smart cities and smart automobiles. Sustainable 6G deployments will serve vehicle-

to-vehicle communication, in-vehicle communication, and EV/hybrid cars. Human safety will be the key criterion in the field of healthcare and transportation, where there will be more automation with wearable devices and driverless cars, respectively.

This report studies the global 6G Testing Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 6G Testing Equipment and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 6G Testing Equipment that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 6G Testing Equipment total production and demand, 2021-2032, (Units)

Global 6G Testing Equipment total production value, 2021-2032, (USD Million)

Global 6G Testing Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 6G Testing Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 6G Testing Equipment domestic production, consumption, key domestic manufacturers and share

Global 6G Testing Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 6G Testing Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 6G Testing Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 6G Testing Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rohde & Schwarz, Keysight Technologies, Emerson (NI), Anritsu, Roos Instruments, Tektronix, VIAVI Solutions, Spirent, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 6G Testing Equipment market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 6G Testing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 6G Testing Equipment Market, Segmentation by Type:

Signal Generators

Signal & Spectrum Analyzers

Network Analyzers

Supporting Equipment

Global 6G Testing Equipment Market, Segmentation by Purpose:

R&D / Validation Bench Instruments

System & Network Test

Manufacturing Test

### Global 6G Testing Equipment Market, Segmentation by Use Cases:

Ultra-High-Speed Communications

Enhanced Virtual and Augmented Reality

Massive IoT Connectivity

Others

### Global 6G Testing Equipment Market, Segmentation by Application:

Telecom Equipment Manufacturers

Telecom Service Providers

Testing and Certification Institutions

Others

### **Companies Profiled:**

Rohde & Schwarz

Keysight Technologies

Emerson (NI)

Anritsu

Roos Instruments

Tektronix

VIAVI Solutions

Spirent

**Key Questions Answered:**

1. How big is the global 6G Testing Equipment market?
2. What is the demand of the global 6G Testing Equipment market?
3. What is the year over year growth of the global 6G Testing Equipment market?
4. What is the production and production value of the global 6G Testing Equipment market?
5. Who are the key producers in the global 6G Testing Equipment market?
6. What are the growth factors driving the market demand?

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