

Global RFID Tester Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G082DE5A3187EN.html>

Date: February 2026

Pages: 126

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

ID: G082DE5A3187EN

Abstracts

The global RFID Tester market size is expected to reach \$ 865 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global RFID Tester production reached approximately 18k units, with an average global market price of around US\$30k per unit.

An RFID tester is a specialized instrument used to test, verify, and evaluate the performance of radio-frequency identification (RFID) systems. It measures and analyzes key parameters of RFID tags, readers, and antennas, including operating frequency, output power, sensitivity, modulation, protocol compliance, read range, and interference tolerance. RFID testers are widely used in R&D, manufacturing testing, quality assurance, and system commissioning to ensure compliance with international standards and reliable performance in real-world applications.

Upstream for RFID testers includes RF/digital components and test fixtures (RF synthesizers/mixers, PA/LNA, ADC/DAC, FPGA/MCU, shield boxes and fixtures, calibrated antennas/couplers, connectors/cables, enclosures and power supplies). Midstream consists of test-instrument vendors and dedicated RFID test platforms such as Voyantic (Tagformance for RAIN RFID/HF/NFC tag testing) as well as general RF/protocol test suppliers like Keysight Technologies and Anritsu. Downstream users include RFID tag/inlay makers, reader/module makers, system integrators, labs and factory QA teams (tag tuning/sensitivity/read-range/protocol checks and grading), plus RFID end-use industries (retail, logistics, manufacturing, healthcare asset tracking). Voyantic positions Tagformance as a modular, all-in-one test solution for RAIN RFID and NFC/HF tags.

The RFID tester market is increasingly characterized by “greater segmentation, scenario-specific requirements, and higher software intensity.” As UHF RAIN RFID continues to penetrate retail, logistics, and manufacturing traceability, and HF/NFC remains strong in payments, ticketing, and identity use cases, the pace of product iteration and volume validation for tags, readers, and antennas keeps rising. In tag manufacturing, the focus is shifting from basic sampling to higher-coverage in-line or near-line grading to ensure consistent read performance, batch stability, and regional regulatory compliance—driving demand for dedicated tag performance test systems, shielding fixtures, and automation tooling. At the same time, requirements are moving beyond “it can be read” toward “quantified, traceable, and benchmarkable” outcomes: RF consistency, protocol conformance, interference robustness, read-zone uniformity, and performance in challenging environments (metal/liquid/material effects) are gaining attention. This pushes testers toward stronger calibration discipline, algorithms, and data management (automatic reporting, MES/QMS connectivity, traceability down to tag or lot level). Market trends point to modular, platform-based solutions that combine general RF instruments (spectrum analyzers, signal sources, VNAs) with RFID-specific software and fixtures into scalable test platforms, while production lines prioritize throughput and stability—favoring compact shielding designs, low-maintenance fixtures, and more automated loading/unloading. Key drivers include RFID expansion in supply-chain digitization, compliance/anti-counterfeiting, and asset tracking, plus customers’ demand for fewer missed/false reads and tighter consistency. Headwinds include calibration and upkeep cost, regional band/protocol variations that increase integration complexity, ROI sensitivity in low-margin tag businesses, and substitution pressure from general-purpose RF instrumentation versus dedicated RFID testers. Overall, competition is shifting from pure hardware specs toward software-defined test workflows, closed-loop data, and robust automation delivery as RFID scales further into mainstream deployments.

This report studies the global RFID Tester production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for RFID Tester 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 RFID Tester that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global RFID Tester total production and demand, 2021-2032, (K Units)

Global RFID Tester total production value, 2021-2032, (USD Million)
Global RFID Tester production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global RFID Tester consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: RFID Tester domestic production, consumption, key domestic manufacturers and share
Global RFID Tester production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global RFID Tester production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global RFID Tester production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global RFID Tester 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 Keysight Technologies, Anritsu Corporation, Rohde & Schwarz, National Instruments, Tektronix, Spirent Communications, VIAVI Solutions, BG Ingenieure, Avera, CISC Semiconductor, 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 RFID Tester market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 RFID Tester Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RFID Tester Market, Segmentation by Type:

Low Frequency RFID Tester

High Frequency RFID Tester

Ultra-High Frequency RFID Tester

Global RFID Tester Market, Segmentation by Form Factor:

Portable

Desktop

Global RFID Tester Market, Segmentation by Test Object:

Tag

Reader

Others

Global RFID Tester Market, Segmentation by Application:

Automotive

Medical

Retail

Aerospace

Logistics

Others

Companies Profiled:

Keysight Technologies

Anritsu Corporation

Rohde & Schwarz

National Instruments

Tektronix

Spirent Communications

VIAMI Solutions

BG Ingenierie

Averna

CISC Semiconductor

Voyantic

RZX Technology

Key Questions Answered:

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

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