

Global Arbitrary Waveform Generator Unit Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA0A3B59709EEN.html>

Date: July 2026

Pages: 174

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

ID: GA0A3B59709EEN

Abstracts

The global Arbitrary Waveform Generator Unit market size is expected to reach \$ 990 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

In 2025, global Arbitrary Waveform Generator Unit production reached approximately 0.33 M Units. The average price is approximately \$1,700. Arbitrary Waveform Generator Unit is a programmable electronic test and measurement instrument designed to generate analog electrical signals based on user-defined sample points, mathematical functions, modulation data, I/Q streams, pulse sequences, or complex timing patterns.

Arbitrary Waveform Generator Unit market should be understood as a programmable complex-signal stimulus market rather than a broad signal-generator market. Conventional function generators are mainly used to output standard sine, square, triangle, pulse, sweep, and modulation waveforms, while an AWG is designed to reproduce user-defined signal behavior, real-world distortions, transient events, protocol-like patterns, I/Q waveforms, and complex timing sequences. Under a narrow and professional definition, this study focuses on benchtop AWGs and AFGs, modular PXI/PXIe/PCIe/USB AWGs, high-speed multi-channel AWGs, and clearly attributable quantum-control waveform generation modules. It does not treat the entire RF signal generator, oscilloscope, software simulation, or complete quantum-control system market as AWG revenue. This narrower scope results in a smaller market size than broad signal generator estimates, but it better reflects the actual revenue pool of manufacturers that design and sell arbitrary waveform generation hardware.

From a supply-side perspective, the global AWG industry is characterized by high-end concentration, broad mid-range competition, and a growing specialty layer. Keysight,

Tektronix/Ralliant, Rohde & Schwarz, NI/Emerson, and Teledyne LeCroy benefit from established test and measurement platforms, global service networks, calibration infrastructure, and application-specific solutions. Spectrum Instrumentation, Tabor Electronics, Zurich Instruments, Qblox, Liquid Instruments, Marvin Test Solutions, and several smaller vendors compete through modular architecture, multi-channel synchronization, quantum-control capability, software-defined instrumentation, or application-specific positioning. In Asia, RIGOL, SIGLENT, UNI-T, GW Instek, OWON, Hantek, and SUIN represent a rapidly expanding supplier base, with Chinese vendors moving from education and repair-oriented instruments toward higher-bandwidth, higher-sample-rate, multi-channel products. Recent product launches by RIGOL and SIGLENT show that China-based suppliers are increasingly targeting communications, semiconductor test, and complex electromagnetic simulation scenarios, rather than staying only in the low-end AFG market.

Demand growth is not evenly distributed across the market. Education, repair, and general electronics R&D still generate large unit volumes, but the stronger revenue growth comes from wireless communications, optical communications, radar and electronic warfare simulation, semiconductor functional and system-level test, automotive electronics, power electronics, and quantum research. High-end customers increasingly evaluate AWG products based on sample rate, vertical resolution, waveform memory, channel coherence, trigger determinism, jitter, sequencing capability, I/Q waveform quality, and interoperability with oscilloscopes, digitizers, spectrum analyzers, RF signal sources, and quantum-control stacks. As a result, low-end AFG competition remains price- and channel-driven, while high-end AWG competition is shaped by system-level performance, software tools, application libraries, service quality, and ecosystem lock-in.

Looking forward, the industry faces both substitution pressure and structural growth opportunities. At the low end, standalone entry-level AWGs may be partially replaced by oscilloscopes with embedded waveform generation, low-cost DDS modules, and multifunction education platforms. In some RF and quantum applications, AWG functionality may also be embedded into larger signal-source or quantum-control systems, reducing the visibility of standalone AWG revenue. At the same time, 6G research, coherent optical communications, radar and electronic warfare, advanced semiconductor test, and quantum computing require increasingly complex, phase-coherent, and high-fidelity waveform generation. This will support demand for direct-RF AWGs, higher-resolution DAC architectures, deeper memory, deterministic sequencing, multi-channel synchronization, and software-defined instruments. Overall, AWG is unlikely to become a mass-market equipment category, but it remains a high-value,

technology-intensive, structurally growing segment within electronic test and measurement.

This report studies the global Arbitrary Waveform Generator Unit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Arbitrary Waveform Generator Unit 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 Arbitrary Waveform Generator Unit that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Arbitrary Waveform Generator Unit total production and demand, 2021-2032, (K Units)

Global Arbitrary Waveform Generator Unit total production value, 2021-2032, (USD Million)

Global Arbitrary Waveform Generator Unit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Arbitrary Waveform Generator Unit consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Arbitrary Waveform Generator Unit domestic production, consumption, key domestic manufacturers and share

Global Arbitrary Waveform Generator Unit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Arbitrary Waveform Generator Unit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Arbitrary Waveform Generator Unit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Arbitrary Waveform Generator Unit 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, Tektronix, Rohde & Schwarz, Zurich Instruments, Teledyne LeCroy, Siglent Technologies, RIGOL Technologies, Spectrum Instrumentation, Tabor Electronics, Qblox, 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 Arbitrary Waveform Generator Unit 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 Arbitrary Waveform Generator Unit Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Arbitrary Waveform Generator Unit Market, Segmentation by Type:

Desktop Standalone

Modular Card-based

Global Arbitrary Waveform Generator Unit Market, Segmentation by Number of Output

Channels:

Single-channel

Dual-channel

Multi-channel

Global Arbitrary Waveform Generator Unit Market, Segmentation by Maximum Analog Bandwidth:

Maximum Analog Bandwidth

Maximum Analog Bandwidth 200 MHz?2 GHz

Maximum Analog Bandwidth ? 2 GHz

Global Arbitrary Waveform Generator Unit Market, Segmentation by Application:

Communications and Networks

Semiconductors and Integrated Circuits

Automotive Electronics

Others

Companies Profiled:

Keysight Technologies

Tektronix

Rohde & Schwarz

Zurich Instruments

Teledyne LeCroy

Siglent Technologies

RIGOL Technologies

Spectrum Instrumentation

Tabor Electronics

Qblox

GW Instek

UNI-T

Liquid Instruments

Berkeley Nucleonics

NF Corporation

B&K Precision

Aim-TTi

Marvin Test Solutions

Active Technologies

Yokogawa T&M

IWATSU Electric

Hantek

Key Questions Answered:

1. How big is the global Arbitrary Waveform Generator Unit market?

Global Arbitrary Waveform Generator Unit Supply, Demand and Key Producers, 2026-2032

2. What is the demand of the global Arbitrary Waveform Generator Unit market?
3. What is the year over year growth of the global Arbitrary Waveform Generator Unit market?
4. What is the production and production value of the global Arbitrary Waveform Generator Unit market?
5. Who are the key producers in the global Arbitrary Waveform Generator Unit market?
6. What are the growth factors driving the market demand?

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