

Global Arbitrary Waveform Generator Market Size study & Forecast, by Product (Single-channel, Dual-channel), by Technology (Direct Digital Synthesis AWG, Variable-clock AWG, Combined AWG), by Application (Telecommunications, Education, Healthcare, Electronics, Industrial, Others) and Regional Analysis, 2022-2029

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Abstracts

Global Arbitrary Waveform Generator Market is valued at approximately USD 394.60 million in 2021 and is anticipated to grow with a healthy growth rate of more than 9.0% over the forecast period 2022-2029. Arbitrary waveform generators are described as electronic test tools that produce electronic waveforms that are injected into the subject to be examined, and whose analysis identifies any faults, if any, in the subject. These devices only produce waveforms in this range when they are operated according to a predetermined set of values. Since many communication devices in the IoT ecosystem require arbitrary waveform generators (AWGs) for their testing, the increasing internet penetration and demand for communication technologies around the world have further positively impacted the market. Along with this, key market players are taking initiatives in the market which is driving the growth for the market over the forecast period.

B&K Precision launched the 9140 Series Triple Output Multi-Range DC Power Supplies in January 2021. The 9140 (32 V, 8 A) and 9141 (60 V, 4 A) provide up to 300 W of clean power with minimum ripple and noise or 100 W per channel in a tiny 2U half-rack form factor with three isolated and individually programmable outputs. However, the availability of international brands, their difficulties due to intense or minimal rivalry from domestic and local brands, and stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Arbitrary Waveform Generator Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Due to rising levels of demand from the defence and aerospace sectors as well as increased performance and functional advantages these products have over traditional types of generators in this region, Asia-Pacific now dominates the global market for arbitrary waveform generators. Due to increased levels of demand from the defence and aerospace sectors in this region, Europe is the projected region for growth in the arbitrary waveform generator market.

Major market player included in this report are:

TEKTRONIX, INC.

Teledyne LeCroy

B&K Precision Corporation

DynamicSignals LLC

Fluke Corporation

Keysight Technologies

NATIONAL INSTRUMENTS CORP

Pico Technology

Rigol Technologies Inc.

ROHDE & SCHWARZ

Recent Developments in the Market:

A collaborative partnership for a 5G performance test solution was announced in July 2018 by National Instruments and Spirent Communications. Such alliances are expected to provide up a wide range of prospects for market expansion.

Dual-channel arbitrary/functional waveform generators of the 4050B series, introduced in January 2017 by B&K Precision Corporation, provided enhanced square wave performance in addition to improved functionality and specifications.

Global Arbitrary Waveform Generator Market Report Scope:

Historical Data 2019-2020-2021

Base Year for Estimation 2021

Forecast period 2022-2029

Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered Product, Technology, Application, Region

Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Single-channel

Dual-channel

By Technology:

Direct Digital Synthesis AWG

Variable-clock AWG

Combined AWG

By Application:

Telecommunications

Education

Healthcare

Electronics

Industrial

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

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