

Signal Generator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global signal generator market size reached US\$ 1.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.0 Billion by 2028, exhibiting a growth rate (CAGR) of 6.8% during 2023-2028.

A signal generator refers to an electronic device that generates electrical signals in the form of a wave. It delivers accurately calibrated repeating or non-repeating signals at frequencies from the audio to the microwave range. The waveforms produced by these generators can be adjusted according to frequency, output voltage, impedance, waveform and modulation. These generators are utilized for characterization, measuring frequencies, stress/margin testing, measurement verification and troubleshooting various electronic devices in the aerospace, defense and telecommunication industries.

Global Signal Generator Market Drivers:

Signal generators are used for testifying and validating the flow of current in internal circuits. They are also utilized for testing the wavelength and frequency range of communication technologies which can be mapped and checked in accordance with the requirement. Catalysed by the escalating sales of mobile devices and electronics, along with the advancements in the wireless, processor and signal transferring technologies, there has been a strong growth in the demand for signal generators. Apart from this, these generators are also employed as test and measurement equipment in the aerospace and defense industries for maintaining and servicing numerous machines.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global

signal generator market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product, technology, application and end use.

Breakup by Product:

- RF Signal Generator
- Microwave Signal Generator
- Arbitrary Waveform Generator
- Vector Signal Generator

Breakup by Technology:

- Global System for Mobile Phones (GSM)
- Code Division Multiple Access (CDMA)
- Wideband Code Division Multiple Access (WCDMA)
- Long Term Evolution (LTE)
- Others

Breakup by Application:

- Designing
- Testing
- Manufacturing
- Troubleshooting
- Repairing
- Others

Breakup by End-Use:

- Communications Industry
- Aerospace and defense Industry
- Mechanical Industry
- Electronics Industry
- Healthcare
- Others

Breakup by Region:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Keysight Technologies Inc., Rohde & Schwarz GmbH & Co Kg, National Instruments Corporation, Anritsu Corporation, Tektronix Inc., Teledyne Technologies Incorporated, B&K Precision Corporation, Fluke Corporation, Stanford Research Systems, Good Will Instrument Co. Ltd, Yokogawa Electric Corporation, etc.

Key Questions Answered in This Report

1. What was the size of the global signal generator market in 2022?
2. What is the expected growth rate of the global signal generator market during 2023-2028?
3. What are the key factors driving the global signal generator market?
4. What has been the impact of COVID-19 on the global signal generator market?
5. What is the breakup of the global signal generator market based on the product?
6. What is the breakup of the global signal generator market based on the technology?
7. What is the breakup of the global signal generator market based on the application?
8. What is the breakup of the global signal generator market based on the end-use?
9. What are the key regions in the global signal generator market?
10. Who are the key players/companies in the global signal generator market?

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