

Global Programmable Oscillator Market Size study & Forecast, by Product (Through Hole Programmable Oscillator, Surface Mount Programmable Oscillator), By End-Use (Electronic, Automotive, Transportation, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Programmable Oscillator Market is valued at approximately USD xxx billion in 2022 and is anticipated to grow with a healthy growth rate of more than xxx% over the forecast period 2023-2030. A programmable oscillator is an electronic device or circuit that generates a periodic waveform with a frequency that can be adjusted or programmed by the user. It is commonly used in various applications, such as communication systems, signal processing, instrumentation, and timing circuits. The Programmable Oscillator market is expanding because of factors such as increasing adoption IoT technology and growing demand of consumer electronic. A programmable oscillator typically consists of a stable reference oscillator and a frequency divider or multiplier circuit. The reference oscillator generates a stable frequency, such as a crystal oscillator or an atomic clock, and the frequency divider/multiplier circuit scales the frequency up or down to achieve the desired programmable output frequency.

According to Statista, the global number of Internet of Things (IoT) devices is expected to be more than 29 billion by 2030. China will have the most IoT devices in 2030, with roughly 5 billion consumer devices. Furthermore, by 2030, the number of Internet of Things (IoT) connected devices is expected to be the largest in the Greater China area, with almost 8.6 billion devices. Other regions that are also expected to lead in the number of IoT devices are Europe and North America. Another important factor drives the Programmable Oscillator market is growing demand of consumer electronics. As per Statista, the global revenue in the consumer electronics market is expected to expand by USD 125.5 billion between years 2023 to 2028 and revenue is expected to reach

USD 1.2 trillion by 2028. In addition, the production value of consumer electronics across India was just above USD 9.02 billion in fiscal year 2022. Also, growing demand of semiconductors and rising number of autonomous vehicles would create a lucrative growth prospectus for the market over the forecast period. However, technical complexity of programmable oscillators stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Programmable Oscillator Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising demand of automotive and consumer electronics. Furthermore, Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as rising number of semiconductors manufacturers in the region.

Major market players included in this report are:

Renesas Electronics Corporation

Silicon Labs

Analog Devices

Cypress

Maxim Integrated

Texas Instrument

ON Semiconductor

Microchip Technology

SiTime Corporation

Ecliptek Corporation

Recent Developments in the Market:

In March 2023, Tata Consultancy Services and Renesas Electronics

Corporation collaborates for the establishment of a joint Innovation Centre in Bengaluru and Hyderabad and the establishment of an association on radio frequency, digital and mixed-signal design and software development for innovative next-generation semiconductor solutions catering to a wide range of industries.

Global Programmable Oscillator Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered - Product, End-Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

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

Through Hole Programmable Oscillator

Surface Mount Programmable Oscillator

By End-Use

Electronic

Automotive

Transportation

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

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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