

# Crystal Oscillator Market is Expected to Rise at a Revenue of US\$ 3,487.3 Million by 2031

CHICAGO, UNITED STATES, June 12, 2023

/EINPresswire.com/ -- The [global crystal oscillator market](https://www.astuteanalytica.com/request-sample/global-crystal-oscillator-market) generated revenue of US\$ 2,266.5 million in 2022 and is estimated to reach US\$ 3,487.3 million by 2031, growing at a CAGR of 5.53% during the forecast period from 2023 to 2031.

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Crystal oscillators give extremely accurate frequency signals for many applications, including telecommunications, consumer electronics, aerospace, and defense. Thus, the growing need for electronic gadgets that require accurate and steady frequency signals drives the global crystal oscillator market. As they can be produced in smaller and more compact sizes because of the development of surface mount technology (SMT). Thus, this makes them perfect for application in portable devices like smartphones and laptops.

A significant factor driving the global crystal oscillator market in the consumer electronics sector is the rising demand for consumer electronics. Many electrical gadgets use crystal oscillators as a crucial component for applications, involving timing and frequency control. In smartphones, for instance, crystal oscillators are used to create a reliable clock signal that regulates the timing of a number of features, including the display, touchscreen, camera, and wireless communication. Crystal oscillators are used in smartwatches to maintain the correct time and in smart home gadgets for timing and control purposes.

Temperature Compensated Crystal Oscillator to Attain a Revenue Share of US\$ 1,609 Million

The Temperature-Compensated Crystal Oscillator (TCXO) is presently leading the global crystal oscillator market and recorded the highest revenue share of US\$ 1020.2 Mn in 2022. In addition, the analysis shows that the segment is likely to witness a CAGR of 5.87% during the forecast period. Electronic devices known as temperature-compensated crystal oscillators (TCXOs) are



utilized in various industries, including telecommunications, aerospace, the military, and industrial automation. TCXOs produce high-frequency and stable timing signals. The requirement for precise and steady frequency signals is rising as IoT devices, autonomous vehicles, and 5G networks become more widely used. Since TCXOs outperform traditional crystal oscillators in terms of performance and have a wide operating temperature range, they are suited for a variety of applications.

### AT Cut Technology Majorly Preferred by End-Users

The AT Cut segment is likely to expand at the highest annual growth rate of 5.81% over the analysis years. Due to the AT cut's widespread use, particularly in electronic devices and other applications where oscillators must function between 500 kHz and 300 MHz, which, in turn, is driving the segment growth.

### IT & Telecommunication to Witness the Highest Growth Rate of 5.93%

In 2022, the IT & Telecommunication segment dominated the global crystal oscillator market, with a revenue share of 37.8%, and is likely to grow a CAGR of 5.93% during the forecast period due to their ongoing growing demand for more reduced media transmission elements that are both cost- and power-effective. Oven-controlled crystal oscillators provide the highest frequency stability of any crystal oscillator and are the most suitable for use in telecommunications.

### North America Will Contribute US\$ 1,101 Million to the Global Crystal Oscillator Market

North America is the most established and substantial global region, accounting for a sizeable portion. According to a recent analysis, the global market held a revenue share of US\$ 655.3 million in 2022 and is expected to grow at a CAGR of 5.44% to reach USD 1,101 million by 2031.

In North America, the consumer electronics sector, including products like smartphones, tablets, and wearables, primarily drives demand for crystal oscillators. The demand for crystal oscillators in the region is also due to the healthcare and automobile industries. Despite being one of the principal producers of crystal oscillators, North America imports a sizeable amount of these components from other continents, primarily Europe and Asia-Pacific. According to a survey by Global Trade Atlas, the US alone imported over 13 million crystal oscillators in 2021, worth US\$ 145 million.

End-use industries in North America crystal oscillator market encompass consumer electronics, automotive, healthcare, aerospace and defense, and industrial applications. The consumer electronics sector dominates the market, accounting for over 40% of the total market share. The automotive market is also a substantial contributor, driven by the growing demand for advanced driver assistance systems (ADAS) and electric vehicles (EVs).

### Leading 10 Players Holds less than 40% of the Market's Revenue

Murata Manufacturing Co. Ltd, Seiko Epson Corporation, Kyocera Corporation, Rakon Ltd, Vectron International Inc., TXC Corporation, Siward Crystal Technology Co. Ltd, Hosonic Electronic Co. Ltd, and Nihon Dempa Kogyo (NDK) Co. Ltd are a few of the market's prominent competitors. Due to the market's fragmentation, there are chances for new entrants to compete with established firms and obtain market share.

In order to be competitive in the market, businesses must constantly innovate and improve their products. Therefore, customers in this market need high-quality products at fair cost factors like quality, pricing, and delivery time are crucial. Companies that can successfully meet the growing demand for crystal oscillators, which is being driven by expansion in the consumer electronics, automotive, and healthcare sectors, will have a considerable competitive edge.

Browse Detailed Summary of Research Report: <https://www.astuteanalytica.com/industry-report/crystal-oscillator-market>

The leading competitors operating in the global crystal oscillators market are:

Seiko Epson Corporation

Kyocera Corporation

Rakon Ltd.

Vectron International Inc.

TXC Corp.

SiTime Corp.

Daishinku Corp.

Siward Crystal Technology Co. Ltd.

Nihon Dempa Kogyo (NDK) Co. Ltd.

Other Prominent Players

## Segmentation Outline

The global crystal oscillators market segmentation focuses on Type, Technology, Mounting Scheme, Industrial Vertical, and Country.

By Type

Controlled Crystal Oscillator

Temperature-Compensated Crystal Oscillator

Oven-Controlled Crystal Oscillator

Others

By Technology

AT Cut

BT Cut

SC Cut

By Mounting scheme  
Surface Mount  
Thru-Hole

By Industrial Vertical  
Electronics  
IT and Telecommunication  
Military & Defence  
Automotive & Transport  
Others

By Country  
North America  
The U.S.  
Canada  
Mexico

Europe  
Western Europe  
The UK  
Germany  
France  
Italy  
Spain  
Rest of Western Europe  
Eastern Europe  
Poland  
Russia  
Rest of Europe

Asia Pacific  
China  
India  
Japan  
Australia & New Zealand  
ASEAN  
Rest of Asia Pacific

Middle East & Africa (MEA)  
UAE  
Saudi Arabia  
South Africa  
Rest of MEA

South America  
Brazil  
Argentina  
Rest of South America

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