

# Global Crystal and Oscillators Market Growth 2026-2032

<https://marketpublishers.com/r/GC7BEB08428FEN.html>

Date: May 2026

Pages: 130

Price: US\$ 3,660.00 (Single User License)

ID: GC7BEB08428FEN

## Abstracts

The global Crystal and Oscillators market size is predicted to grow from US\$ 3784 million in 2025 to US\$ 6862 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

Crystal and Oscillators is a basic electronic component that uses the piezoelectric effect, high stability, high quality factor, and low loss of quartz itself to provide standard frequency sources and clock pulse signals. It is the basic support industry for the electronic information industry. Applied to information equipment, mobile terminals, communication and network equipment, automotive electronics, smart home, wearable, smart home products, etc. Crystals and oscillators are core components in electronic systems used to generate stable frequency signals. Their core principle is based on the piezoelectric effect (inverse piezoelectric effect) of quartz crystals. When an electric field is applied to a quartz crystal, the crystal produces mechanical vibrations; conversely, mechanical vibrations also generate an electric field. This characteristic enables quartz crystals to serve as high-precision frequency references.

Global sales of crystals and oscillators reached 35,697 million units in 2024, with an average selling price of \$108.37 per thousand units.

Technological innovation directions:

Material breakthroughs: Gallium nitride (GaN) crystal oscillators achieve a 450-fold increase in power density at high frequencies (above 60 GHz). The GaN IMPATT oscillator developed by Stanford University is already being used in millimeter-wave communications.

**Integrated design:** Epson's next-generation OCXO (OG7050CAN) achieves miniaturization through SC-cut crystal units, reducing volume by 85% and power consumption to 0.2W, while supporting a wide frequency output range of 1MHz to 170MHz.

**Intelligent control:** AI algorithms dynamically adjust oscillation parameters. For example, Saisi Technology's OCXO uses machine learning to reduce phase noise to -123.5 dBc@1 Hz, reaching the world's leading level.

By 2030, the crystal and oscillator market will exhibit the following characteristics:

**Technological differentiation:** High-end OCXOs ( $>\pm 0.01$ ppm) are dominated by Europe and the United States, while mid-range TCXOs ( $\pm 0.1$ ppm to  $\pm 1$ ppm) have a domestic production rate exceeding 80%, and MEMS oscillators account for 45% of the consumer market.

**Application structure:** Communications (35%), automotive (28%), and AI computing power (18%) will be the three major growth drivers, while traditional consumer electronics will drop to 20%.

**Geopolitical Competition:** China, the US, and Europe have formed a “technology-capacity-standards” triangle. China dominates the mid-to-low-end market with its production capacity advantage, while Europe and the US control high-end applications through patent barriers (e.g., SiTime holds over 2,000 patents for MEMS oscillators).

LP Information, Inc. (LPI) ' newest research report, the “Crystal and Oscillators Industry Forecast” looks at past sales and reviews total world Crystal and Oscillators sales in 2025, providing a comprehensive analysis by region and market sector of projected Crystal and Oscillators sales for 2026 through 2032. With Crystal and Oscillators sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Crystal and Oscillators industry.

This Insight Report provides a comprehensive analysis of the global Crystal and Oscillators landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Crystal and Oscillators portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Crystal and Oscillators market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Crystal and Oscillators and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Crystal and Oscillators.

This report presents a comprehensive overview, market shares, and growth opportunities of Crystal and Oscillators market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Crystal Units

Crystal Oscillators

#### Segmentation by Function:

SPXO

TCXO

VCXO

OCXO

XTAL

#### Segmentation by Structural:

Crystal Resonator

Oscillator Module

### Segmentation by Application:

Mobile Terminal

Automotive Electronics

Wearable Device

Smart Home

Internet of Things

Others

### This report also splits the market by region:

#### Americas

United States

Canada

Mexico

Brazil

#### APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

TXC Corporation

NDK

Seiko Epson Corp

KCD

KDS

SiTime

Microchip

TKD Science

Hosonic Electronic

Harmony

Murata Manufacturing

Failong Crystal Technologies

Micro Crystal

Siward Crystal Technology

Rakon

Taitien

River Eletec Corporation

Guoxin Micro

ZheJiang East Crystal

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Crystal and Oscillators market?

What factors are driving Crystal and Oscillators market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Crystal and Oscillators market opportunities vary by end market size?

How does Crystal and Oscillators break out by Type, by Application?

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