

Global Crystal and Oscillators Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Crystal and Oscillators market size is expected to reach \$ 7015 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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 (± 0.1 ppm to ± 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).

This report studies the global Crystal and Oscillators production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Crystal and Oscillators and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Crystal and Oscillators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Crystal and Oscillators total production and demand, 2021-2032, (Million Units)

Global Crystal and Oscillators total production value, 2021-2032, (USD Million)

Global Crystal and Oscillators production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Crystal and Oscillators consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Crystal and Oscillators domestic production, consumption, key domestic manufacturers and share

Global Crystal and Oscillators production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Crystal and Oscillators production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Crystal and Oscillators production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Crystal and Oscillators market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TXC Corporation, NDK, Seiko Epson Corp, KCD, KDS, SiTime, Microchip, TKD Science, Hosonic Electronic, Harmony, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Crystal and Oscillators market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Crystal and Oscillators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Crystal and Oscillators Market, Segmentation by Type:

Crystal Units

Crystal Oscillators

Global Crystal and Oscillators Market, Segmentation by Function:

SPXO

TCXO

VCXO

OCXO

XTAL

Global Crystal and Oscillators Market, Segmentation by Structural:

Crystal Resonator

Oscillator Module

Global Crystal and Oscillators Market, Segmentation by Application:

Mobile Terminal

Automotive Electronics

Wearable Device

Smart Home

Internet of Things

Others

Companies Profiled:

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 Answered:

1. How big is the global Crystal and Oscillators market?
2. What is the demand of the global Crystal and Oscillators market?
3. What is the year over year growth of the global Crystal and Oscillators market?
4. What is the production and production value of the global Crystal and Oscillators market?
5. Who are the key producers in the global Crystal and Oscillators market?
6. What are the growth factors driving the market demand?

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