

Global Quartz Crystals and Oscillators Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Quartz Crystals and Oscillators market size was valued at USD 4103.5 million in 2023 and is forecast to a readjusted size of USD 8819.9 million by 2030 with a CAGR of 11.6% during review period.

A crystal is a piece of piezoelectric material that generates an oscillating sinusoidal electric signal due to the mechanical vibration of its structure. Crystals vibrate at very precise frequencies, so they produce precisely tuned outputs. The crystal oscillator refers to a slice (abbreviated as a wafer) from a quartz crystal at a certain azimuth angle, a quartz crystal resonator, which is simply referred to as a quartz crystal or a crystal, and a crystal oscillator; and a crystal element in which an IC constitutes an oscillation circuit is added inside the package is called Crystal oscillator.

Global quartz crystal oscillators companies include Seiko Epson, Nihon Dempa Kogyo (NDK), TXC, Kyocera Crystal Device (KCD) and Daishinku Corp (KDS), etc. Global top 5 companies hold a share over 43%. Japan is the largest producing area, with a share above 30%. In terms of type, the market share of quartz crystal is over 55%. In the application field, the market share of consumer electronics reaches more than 50%.

The Global Info Research report includes an overview of the development of the Quartz Crystals and Oscillators industry chain, the market status of Consumer Electronics (SPXO, TCXO), Automotive (SPXO, TCXO), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Quartz Crystals and Oscillators.

Regionally, the report analyzes the Quartz Crystals and Oscillators markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Quartz Crystals and Oscillators market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Quartz Crystals and Oscillators market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Quartz Crystals and Oscillators industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (M Pcs), revenue generated, and market share of different by Type (e.g., SPXO, TCXO).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Quartz Crystals and Oscillators market.

Regional Analysis: The report involves examining the Quartz Crystals and Oscillators market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Quartz Crystals and Oscillators market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Quartz Crystals and Oscillators:

Company Analysis: Report covers individual Quartz Crystals and Oscillators manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios,

partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Quartz Crystals and Oscillators. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, Automotive).

Technology Analysis: Report covers specific technologies relevant to Quartz Crystals and Oscillators. It assesses the current state, advancements, and potential future developments in Quartz Crystals and Oscillators areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Quartz Crystals and Oscillators market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Quartz Crystals and Oscillators market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

SPXO

TCXO

VCXO

OCXO

Quartz Crystal

Market segment by Application

Consumer Electronics

Automotive

Home Appliance

IT & Telecommunication

Medical Equipment

Others

Major players covered

TXC

Seiko Epson

Nihon Dempa Kogyo (NDK)

Kyocera Crystal Device (KCD)

SiTime

Daishinku Corp (KDS)

Vectron (Microchip)

TKD Science and Technology

Rakon

Hosonic Electronic

Murata/TEW

Siward Crystal Technology

Micro Crystal

Diodes Incorporated

Tai-Saw Technology

Harmony Electronics Corp (H.ELE.)

Taitien

Failong Crystal Technologies

River Eletec

AnHui Jing Sai Technology

ZheJiang East Crystal

Abracon

NSK (JenJaan Quartek Corporation)

Aker Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Quartz Crystals and Oscillators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quartz Crystals and Oscillators, with price, sales, revenue and global market share of Quartz Crystals and Oscillators from 2019 to 2024.

Chapter 3, the Quartz Crystals and Oscillators competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quartz Crystals and Oscillators breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Quartz Crystals and Oscillators market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quartz Crystals and Oscillators.

Chapter 14 and 15, to describe Quartz Crystals and Oscillators sales channel, distributors, customers, research findings and conclusion.

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