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Global Automotive Quartz Crystal and Oscillator Market Growth 2026-2032

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Abstracts

The global Automotive Quartz Crystal and Oscillator market size is predicted to grow from US$ 636 million in 2025 to US$ 2015 million in 2032; it is expected to grow at a CAGR of 18.2% from 2026 to 2032.

Automotive Quartz Crystaland oscillators are high-stability frequency control devices that are designed to operate under the high temperatures and mechanical stress that occur in an in-vehicle operational environment. Automotive grade crystals and oscillators are therefore subjected to stringent test criteria to ensure quality, safety and reliability. These components play a crucial role in various automotive systems, providing precise timing signals for critical functions such as engine control, transmission control, safety systems, infotainment systems, and telematics.

The automotive quartz crystal and oscillator market is an essential part of the broader automotive electronics industry, driven by the increasing integration of advanced electronic systems in modern vehicles. These components provide highly accurate frequency and timing signals necessary for the functioning of numerous automotive subsystems, including engine and transmission control units, electronic power steering, anti-lock braking systems, advanced driver-assistance systems (ADAS), infotainment, GPS navigation, and vehicle-to-everything (V2X) communication.

As vehicles become more software-defined and reliant on digital electronics, the demand for stable, low-jitter, and thermally robust timing components continues to grow. Automotive-grade quartz crystals and oscillators are specifically engineered to meet AEC-Q200 and other stringent automotive standards. They are designed to operate reliably across wide temperature ranges, resist shock and vibration, and offer long operational lifespans, making them suitable for both combustion engine vehicles and

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electric vehicles (EVs).

The rise of electric and hybrid vehicles, autonomous driving technologies, and the growing complexity of automotive networks are key market drivers. Additionally, the shift toward connected cars and the development of intelligent transportation systems (ITS) are accelerating the need for precise synchronization and high-frequency data communication, which directly increases the adoption of high-performance oscillators and crystals.

Major players in the market include specialized frequency control device manufacturers, many of whom are investing in R&D to produce smaller, more power-efficient, and more thermally stable devices. The market is also seeing growing competition due to the increasing importance of localization, especially in Asia-Pacific regions like China, Japan, and South Korea, where both demand and domestic manufacturing capabilities are expanding.

Overall, the automotive quartz crystal and oscillator market is poised for steady growth, supported by the evolution of vehicle electronics, regulatory requirements for safety and emissions, and the broader trend toward vehicle electrification and autonomy.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Automotive Quartz Crystal and Oscillator 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 Automotive Quartz Crystal and Oscillator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Automotive Quartz Crystal and Oscillator market.

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This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Quartz Crystal and Oscillator 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 Automotive Quartz Crystal and Oscillator.

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

Market Segmentation

Segmentation by Type:

Crystal Units

Temperature-Controlled Quartz Crystal Oscillator (TCXO)

Voltage-Controlled Quartz Crystal Oscillator (VCXO)

Oven-Controlled Quartz Crystal Oscillator (OCXO)

Quartz Crystals& Clock Oscillator (XO)

Segmentation by Application:

Chassis & Safety Systems

Powertrain Systems

Body Systems

ADAS

Infotainment Systems

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Network & Telematics Systems

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

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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.

NDK

TXC Corporation

Seiko Epson Corp

Kyocera

Daishinku Corp (KDS)

TKD Science

Harmony

JGHC

Diodes

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Murata

Micro Crystal (Swatch Group)

Shenzhen Yangxing

Hosonic Electronic

Guoxin Micro

Siward Crystal Technology

Raltron Electronics Corporation

Hong Kong Crystal

Abracon

Aker Technology

Taitien Electronics Co., Ltd

Failong Crystal Technologies

IQD Frequency Products Ltd

Jauch Group

NSK (JenJaan Quartek Corporation)

ECS

Golledge Electronics

River Eletec Corporation

ShenZhen Crystal Technology Industrial

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Shenzhen Genuway

ZheJiang East Crystal

Mercury Electronic Industrial

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Quartz Crystal and Oscillator market?

What factors are driving Automotive Quartz Crystal and Oscillator market growth, globally and by region?

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

How do Automotive Quartz Crystal and Oscillator market opportunities vary by end market size?

How does Automotive Quartz Crystal and Oscillator break out by Type, by Application?

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