

Global Automotive Onboard Quartz Crystal Unit Market Growth 2026-2032

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Abstracts

The global Automotive Onboard Quartz Crystal Unit 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.

An automotive onboard quartz crystal unit is a highly precise frequency control component integrated within a vehicle's electronic systems to ensure stable and accurate timing for various onboard applications. Utilizing the piezoelectric effect of quartz, these crystal units generate consistent oscillation frequencies and are essential for synchronizing signals in complex automotive subsystems. Designed to meet automotive-grade reliability standards, onboard quartz crystal units are engineered to withstand wide temperature ranges, mechanical vibrations, humidity, and long operational lifespans. They are commonly used in engine and transmission control units, safety and stability systems (such as ABS and ESC), advanced driver-assistance systems (ADAS), infotainment, GPS, telematics, and vehicle communication modules like V2X.

The market for automotive onboard quartz crystal units is expanding steadily, driven by the increasing digitization of vehicles and the integration of electronic control systems across virtually every automotive function. As vehicles evolve into software-defined platforms with growing reliance on data processing, sensing, and connectivity, the demand for stable, low-phase noise, and thermally robust timing devices has surged. Onboard crystal units offer the timing accuracy required to maintain synchronization between subsystems, reduce latency, and improve system responsiveness.

The transition to electric vehicles (EVs), advancements in autonomous driving, and the deployment of smart transportation infrastructure are further boosting demand. These

trends require more complex onboard architectures and multiple high-frequency signals, all of which depend on reliable timing components. Additionally, the increasing importance of cybersecurity and real-time data processing in connected vehicles further underscores the need for high-precision onboard crystal units.

Major players in the market focus on innovations in miniaturization, thermal stability, surface-mount packaging, and compliance with automotive standards like AEC-Q200. The Asia-Pacific region continues to dominate production and consumption, supported by leading automotive electronics manufacturers and strong demand from vehicle OEMs.

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

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

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

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

Segmentation by Type:

Crystal Units

Temperature-Controlled Quartz Crystal Oscillator(TCXO)

Voltage-Controlled Quartz Crystal Oscillator

Oven-Controlled Quartz Crystal Oscillator

Quartz Crystals& Clock Oscillator

Segmentation by Application:

Chassis & Safety Systems

Powertrain Systems

Body Systems

ADAS

Infotainment Systems

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

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

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

Shenzhen Genuway

ZheJiang East Crystal

Mercury Electronic Industrial

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Onboard Quartz Crystal Unit market?

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

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

How do Automotive Onboard Quartz Crystal Unit market opportunities vary by end

market size?

How does Automotive Onboard Quartz Crystal Unit break out by Type, by Application?

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