

# Global Automotive Grade Quartz Crystal Unit Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Automotive Grade Quartz Crystal Unit market size will reach 842.94 Million USD in 2025 and is projected to reach 2,201.61 Million USD by 2032, with a CAGR of 14.70% (2025-2032). Notably, the China Automotive Grade Quartz Crystal Unit market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

An automotive grade quartz crystal unit is a precise electronic component used in automotive electronics to provide stable and accurate timing signals. It consists of a quartz crystal enclosed in a hermetically sealed package. When an electric field is applied, the crystal vibrates at its resonant frequency, generating precise timing signals. Automotive grade quartz crystal units are manufactured to meet stringent automotive industry standards for reliability, temperature stability, shock resistance, and environmental robustness. They withstand harsh automotive conditions, including wide temperature variations and vibration, and are used in various automotive systems such as engine control units (ECUs), airbag systems, infotainment systems, and advanced driver-assistance systems (ADAS), ensuring accurate operation and contributing to vehicle safety and performance.

The major global manufacturers of Automotive Grade Quartz Crystal Unit include NDK, TXC Corporation, Kyocera, Seiko Epson Corp, Daishinku Corp (KDS), TKD Science,

Guoxin Micro, Harmony, Shenzhen Yangxing, JGHC, Micro Crystal (Swatch Group), Diodes, Murata, River Eletec Corporation, Hosonic Electronic, Siward Crystal Technology, Aker Technology, Raltron Electronics Corporation, Abracon, Mercury Electronic Industrial, Hong Kong Crystal, IQD Frequency Products Ltd, Failong Crystal Technologies, ECS, Jauch Group, NSK (JenJaan Quartek Corporation), ZheJiang East Crystal, Golledge Electronics, ShenZhen Crystal Technology Industrial, Taitien Electronics Co., Ltd, Shenzhen Genuway, Rakon Limited, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Automotive Grade Quartz Crystal Unit. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Automotive Grade Quartz Crystal Unit market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Automotive Grade Quartz Crystal Unit market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Automotive Grade Quartz Crystal Unit industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Automotive Grade Quartz Crystal Unit Include:

NDK

TXC Corporation

Kyocera

Seiko Epson Corp

Daishinku Corp (KDS)

TKD Science

Guoxin Micro

Harmony

Shenzhen Yangxing

JGHC

Micro Crystal (Swatch Group)

Diodes

Murata

River Eletec Corporation

Hosonic Electronic

Siward Crystal Technology

Aker Technology

Raltron Electronics Corporation

Abracon

Mercury Electronic Industrial

Hong Kong Crystal

IQD Frequency Products Ltd

Failong Crystal Technologies

ECS

Jauch Group

NSK (JenJaan Quartek Corporation)

ZheJiang East Crystal

Golledge Electronics

ShenZhen Crystal Technology Industrial

Taitien Electronics Co., Ltd

Shenzhen Genuway

Rakon Limited

Automotive Grade Quartz Crystal Unit Product Segment Include:

Crystal Units kHz

Crystal Units MHz

Temperature-Controlled Quartz Crystal Oscillator(TCXO) kHz

Temperature-Controlled Quartz Crystal Oscillator (TCXO)MHz

Voltage-Controlled Quartz Crystal Oscillator (VCXO) kHz

Voltage-Controlled Quartz Crystal Oscillator (VCXO) MHz

Oven-Controlled Quartz Crystal Oscillator (OCXO)kHz

Oven-Controlled Quartz Crystal Oscillator (OCXO) MHz

Quartz Crystals& Clock Oscillator (XO) kHz

Quartz Crystals& Clock Oscillator (XO) MHz

Automotive Grade Quartz Crystal Unit Product Application Include:

Chassis & Safety Systems

Powertrain Systems

Body Systems

ADAS

Infotainment Systems

Network & Telematics Systems

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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