

# Cellular Vehicle-To-Everything Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Hardware, Software), By Vehicle Type (Passenger Vehicle, Commercial Vehicle), By Communication Type, By Application

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## Abstracts

The Cellular Vehicle-To-Everything Market is valued at USD 1.6 billion in 2025 and is projected to grow at a CAGR of 29.8% to reach USD 16.7 billion by 2034.

The Cellular Vehicle-To-Everything (C-V2X) market is poised for rapid growth as the automotive industry embraces connected vehicle technologies. C-V2X enables vehicles to communicate with each other (V2V), with infrastructure (V2I), with pedestrians (V2P), and with networks (V2N), all through cellular networks. This technology offers significant safety and efficiency benefits, including real-time traffic information, collision avoidance, and optimized fuel consumption. By leveraging the capabilities of 4G LTE and 5G networks, C-V2X creates a more connected, autonomous driving ecosystem.

One of the primary drivers of the C-V2X market is the push for enhanced road safety and smarter urban mobility. Governments and automotive stakeholders are investing in intelligent transport systems and advanced driver-assistance systems (ADAS), both of which rely on reliable vehicle connectivity. The rollout of 5G technology has further strengthened the case for C-V2X, providing the low latency and high bandwidth needed for real-time data exchange. Additionally, the automotive industry's move toward electric and autonomous vehicles is amplifying the demand for seamless communication networks, which C-V2X offers.

However, the market faces challenges such as interoperability issues, high implementation costs, and the need for extensive infrastructure upgrades. Furthermore,

the integration of C-V2X technology into legacy vehicles and infrastructure remains a hurdle. Despite these obstacles, ongoing partnerships between automotive manufacturers, telecom providers, and government agencies are driving innovation, paving the way for more widespread adoption of C-V2X solutions in the near future.

### Key Insights Cellular Vehicle-To-Everything Market

- Growing adoption of 5G networks to enhance C-V2X communication and performance.
- Increased integration of C-V2X in electric and autonomous vehicles.
- Rising investments in smart city projects featuring C-V2X-enabled infrastructure.
- Development of hybrid C-V2X and DSRC solutions to bridge communication gaps.
- Expansion of V2X use cases, such as cooperative driving and real-time traffic management.  
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- Advancements in 5G technology providing reliable, low-latency connections.
- Increasing focus on autonomous vehicle deployment and integration of C-V2X in ADAS.
- High infrastructure costs for installing and maintaining C-V2X networks.  
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- The complexity of integrating C-V2X with existing traffic management systems.

### Cellular Vehicle-To-Everything Market Segmentation

#### By Component

Hardware

Software

## By Vehicle Type

Passenger Vehicle

Commercial Vehicle

## By Communication Type

Vehicle-To-Person (V2P)

Vehicle-To-Infrastructure (V2I)

Vehicle-To-Network (V2N)

Vehicle-To-Vehicle (V2V)

## By Application

Fleet Management

Autonomous Driving

Collision Avoidance

Intelligent Traffic Systems

Parking Management Systems

## Key Companies Analysed

AT&T Inc.

Robert Bosch GmbH

Huawei Technologies co. Ltd.

Audi AG

Intel Corporation

Daimler Truck AG

Qualcomm Technologies Inc.

NTT DOCOMO Inc.

Continental AG

Nvidia Corporation

Nokia Corporation

ZTE Corporation

Aptiv PLC

Infineon Technologies AG

NXP Semiconductors

Keysight Technologies

Harman International Industries Inc.

Rohde & Schwarz GmbH & Co. KG

Quectel Wireless Solutions Co. Ltd.

TomTom International BV

Autotalks Ltd.

Commsignia Ltd.

Savari Inc.

Ficosa International SA

Cohda Wireless Pty Ltd.

Shenzhen Genvict Technologies Co. Ltd.

Quectel wireless co. Ltd.

Unex Technology Corp.

MediaTek Inc.

Reliance Jio Infocomm Ltd.

## Cellular Vehicle-To-Everything Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Cellular Vehicle-To-Everything Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Cellular Vehicle-To-Everything market data and outlook to 2034

United States

Canada

Mexico

Europe — Cellular Vehicle-To-Everything market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Cellular Vehicle-To-Everything market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Cellular Vehicle-To-Everything market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Cellular Vehicle-To-Everything market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

Research Methodology

*Cellular Vehicle-To-Everything Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Hardw...*

This study combines primary inputs from industry experts across the Cellular Vehicle-To-Everything value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

### Key Questions Addressed

What is the current and forecast market size of the Cellular Vehicle-To-Everything industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

### Your Key Takeaways from the Cellular Vehicle-To-Everything Market Report

Global Cellular Vehicle-To-Everything market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Cellular Vehicle-To-Everything trade, costs, and supply chains

Cellular Vehicle-To-Everything market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Cellular Vehicle-To-Everything market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Cellular Vehicle-To-Everything market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Cellular Vehicle-To-Everything supply chain analysis

Cellular Vehicle-To-Everything trade analysis, Cellular Vehicle-To-Everything market price analysis, and Cellular Vehicle-To-Everything supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Cellular Vehicle-To-Everything market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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