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Global Automotive Vehicle-to-Everything (V2X) Market Size Study, by Device (Roadside Unit, Onboard Unit), by Communication (Vehicle-to-Vehicle, Vehicle-to-Infrastructure), by Connectivity, by Vehicle, and Regional Forecasts 2022-2032

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Abstracts

The Global Automotive Vehicle-to-Everything (V2X) Market was valued at approximately USD 0.3 billion in 2023 and is poised to expand at a remarkable CAGR of 51.9% over the forecast period from 2024 to 2032. Vehicle-to-Everything (V2X) technology is revolutionizing the automotive sector by facilitating seamless communication between vehicles, infrastructure, and other connected devices. This innovation significantly enhances traffic efficiency, road safety, and autonomous driving capabilities. As the world moves toward intelligent transportation systems, V2X technology is emerging as a critical enabler of next-generation mobility solutions.

The rapid expansion of the V2X market is largely attributed to the growing push for autonomous driving, smart transportation systems, and advanced driver-assistance systems (ADAS). Governments worldwide are implementing stringent road safety regulations and promoting connected vehicle ecosystems, accelerating the adoption of V2X technologies. Additionally, advancements in 5G connectivity, AI-driven vehicle communication networks, and edge computing solutions are fueling market growth. For instance, countries like the United States, Germany, and China are investing significantly in intelligent transportation infrastructure, supporting widespread V2X deployment. However, cybersecurity concerns, high implementation costs, and interoperability challenges among various V2X communication standards may pose hurdles to market expansion.

Regionally, North America dominates the market, driven by high investments in

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autonomous and connected vehicle technologies, stringent government mandates, and the presence of key industry players. The European market follows closely, benefiting from government-backed initiatives such as Europe's Cooperative Intelligent Transport Systems (C-ITS) strategy. Meanwhile, the Asia-Pacific (APAC) region is projected to witness the fastest growth, fueled by rapid urbanization, increasing adoption of electric vehicles (EVs), and government initiatives supporting smart city development. Countries like China, Japan, and South Korea are leading the charge in V2X integration, with major automakers and tech firms collaborating to enhance vehicular communication systems.

Major Market Players Included in This Report:

Qualcomm Technologies, Inc.

Autotalks Ltd.

Continental AG

NXP Semiconductors

Denso Corporation

Huawei Technologies Co., Ltd.

Robert Bosch GmbH

Tesla, Inc.

General Motors Company

Ford Motor Company

Toyota Motor Corporation

ZTE Corporation

Savari Inc.

Infineon Technologies AG

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Hyundai Motor Company

The Detailed Segments and Sub-Segments of the Market are Explained Below:

By Device:

Roadside Unit

Onboard Unit

By Communication:

Vehicle-to-Vehicle (V2V)

Vehicle-to-Infrastructure (V2I)

By Connectivity:

Cellular V2X (C-V2X)

Dedicated Short-Range Communication (DSRC)

By Vehicle Type:

Passenger Vehicles

Commercial Vehicles

By Region:

North America:

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Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

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Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of MEA

Years Considered for the Study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024-2032

Key Takeaways:

Market estimates and forecasts for 10 years (2022-2032).

Annualized revenue and regional analysis for each market segment.

Detailed geographical insights, including country-level market evaluations.

Competitive landscape featuring major players and their market strategies.

In-depth analysis of market drivers, challenges, and opportunities.

Demand-side and supply-side assessments for precise market intelligence.

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CHAPTER 9. RESEARCH PROCESS

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