

Vehicle-to-Everything (V2X) Market Forecasts To 2034 - Global Analysis By Communication Type (Vehicle-to-Vehicle (V2V), Vehicle-to-Infrastructure (V2I), Vehicle-to-Pedestrian (V2P) and Vehicle-to-Network (V2N)), Connectivity Technology, Component, Vehicle Type, Propulsion Type, Automation Level, Communication Range, Deployment Environment, Security Technology, Application, End User and By Geography

<https://marketpublishers.com/r/VB6787512A45EN.html>

Date: September 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: VB6787512A45EN

Abstracts

According to Statistics MRC, the Global Vehicle-to-Everything (V2X) Market is accounted for \$13.8 billion in 2026 and is expected to reach \$306.9 billion by 2034 growing at a CAGR of 47.3% during the forecast period. The Vehicle-to-Everything (V2X) Market covers advanced communication solutions that allow vehicles to interact with nearby vehicles, road infrastructure, pedestrians, communication networks, and transportation environments. These technologies support safer and more efficient mobility by enabling vehicles to share information about locations, speeds, traffic conditions, road hazards, and signal status in real time. Key V2X technologies include Dedicated Short-Range Communications (DSRC) and Cellular V2X (C-V2X), along with onboard units, roadside equipment, connectivity modules, semiconductor components, and software solutions. Increasing connected-vehicle deployment, intelligent transportation infrastructure, 5G networks, smart-city initiatives, autonomous driving, and advanced driver-assistance systems are creating significant opportunities for V2X market development globally.

Market Dynamics:

Driver:

Increasing Focus on Road Safety

The rising priority placed on preventing road accidents is creating strong growth opportunities for the Vehicle-to-Everything (V2X) Market. V2X systems facilitate real-time communication concerning vehicle positions, traffic conditions, roadway hazards, emergency events, pedestrians, and other road users. By providing information that may not be captured through conventional vehicle sensors alone, these systems can enhance situational awareness for drivers and automated driving technologies. Automotive companies, governments, and transportation agencies are increasingly investigating V2X solutions for intersection safety, emergency response, pedestrian protection, and collision prevention. Growing investment in proactive vehicle-safety technologies, together with government programs and intelligent transportation initiatives, is accelerating V2X implementation across transportation networks.

Restraint:

High Infrastructure Deployment Costs

Significant infrastructure investment remains a major barrier to the expansion of the Vehicle-to-Everything (V2X) Market. Establishing a functional V2X environment requires roadside communication units, antennas, network infrastructure, computing capabilities, intelligent traffic systems, and specialized software. Retrofitting conventional roads, intersections, traffic signals, and transportation networks with V2X capabilities can involve considerable expenditure. Transportation authorities must additionally allocate resources for system maintenance, cybersecurity, upgrades, connectivity, and interoperability. Limited budgets can therefore make comprehensive deployment difficult for smaller municipalities and emerging economies. The combination of high upfront costs and continuing operational expenses may discourage transportation organizations from implementing V2X systems rapidly, slowing market penetration in cost-sensitive regions.

Opportunity:

Expansion of V2X in Commercial Fleets and Public Transportation

The increasing digitalization of commercial fleets and public transportation is creating considerable growth potential for V2X solutions. Logistics providers, fleet operators, transit authorities, and emergency-service organizations can deploy V2X technologies to improve vehicle coordination, operational efficiency, road safety, routing, and real-time traffic awareness. Connected buses can interact with traffic signals and infrastructure to facilitate transit priority and smoother operations, while commercial

fleets can use vehicle communication to coordinate movements and respond more effectively to roadway conditions. As transportation operators seek greater automation, efficiency, and visibility, investment in connected fleet technologies is expected to rise. This trend can expand demand for V2X communication equipment, software, platforms, and supporting infrastructure.

Threat:

Low Consumer Awareness and Adoption Resistance

Insufficient public understanding and hesitation toward connected-vehicle technologies may restrict V2X market development. Consumers may have limited knowledge about the practical advantages of vehicle-to-vehicle, vehicle-to-infrastructure, and other V2X communications. Concerns related to privacy, cybersecurity, additional costs, and infrastructure availability can further influence purchasing decisions. The benefits of V2X can also be difficult to recognize when only a small proportion of surrounding vehicles or roads are connected. Weak consumer demand could reduce automakers' motivation to include V2X capabilities across broader vehicle portfolios. As a result, limited awareness, perceived value, and adoption willingness could slow the achievement of the widespread participation required for an effective V2X ecosystem.

Covid-19 Impact:

The COVID-19 outbreak initially created challenges for the Vehicle-to-Everything (V2X) Market through disruptions across automotive production, electronics supply chains, transportation infrastructure projects, and technology development programs. Manufacturing interruptions and restrictions on movement reduced vehicle output and slowed deployment of connected mobility solutions. Some governments and transportation agencies also postponed smart-road and intelligent transportation investments while prioritizing pandemic-related expenditures. Nevertheless, the crisis increased attention toward contactless transportation, remote monitoring, digital infrastructure, and automated mobility solutions. Following economic reopening, vehicle manufacturing and infrastructure activities gradually recovered, while investments in connected vehicles, 5G connectivity, smart cities, and intelligent transportation systems increased, supporting renewed V2X market development globally.

The Onboard Unit (OBU) segment is expected to be the largest during the forecast period

The Onboard Unit (OBU) segment is expected to account for the largest market share during the forecast period, driven by rising adoption of integrated vehicle communication systems and connected mobility technologies. OBUs provide vehicles with the capability to communicate with surrounding vehicles, infrastructure, pedestrians, and network platforms, making them fundamental components of V2X ecosystems. Increasing

deployment of connected and automated vehicles is creating greater requirements for onboard communication solutions that support safety and intelligent transportation applications. Automotive manufacturers are progressively integrating sophisticated connectivity functions into vehicle platforms, encouraging OBU adoption. Furthermore, the growing use of C-V2X and 5G connectivity is expanding OBU applications across modern connected transportation networks.

The Autonomous & Automated Driving segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Autonomous & Automated Driving segment is predicted to witness the highest growth rate, driven by the rapid advancement of vehicle automation and the increasing need for real-time connectivity among vehicles, infrastructure, pedestrians, and network platforms. V2X technology complements onboard sensing systems by providing additional information from sources outside the vehicle's direct detection range, improving situational awareness and automated decision-making. Increasing investments in autonomous vehicle development by automakers and technology providers are strengthening demand for dependable, low-latency communication solutions. In addition, the expansion of connected roads, intelligent intersections, cooperative driving systems, and 5G connectivity is supporting greater integration of V2X technologies into future automated transportation ecosystems.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, driven by expanding connected-vehicle adoption, increasing development of intelligent transportation infrastructure, and growing implementation of cellular V2X technologies. Major countries, including China, Japan, South Korea, and India, are investing in connected mobility, smart-road systems, and advanced vehicle communication networks. The region's established automotive manufacturing base, combined with accelerating 5G infrastructure development, creates favorable conditions for V2X expansion. In addition, government efforts supporting autonomous vehicles, road safety, intelligent traffic management, and smart-city programs are stimulating regional demand, reinforcing Asia-Pacific's leading position in the V2X Market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by increasing connected-vehicle deployment, rapid 5G network expansion, smart transportation investments, and supportive government initiatives. Automotive-focused economies across the region are developing intelligent roads, connected intersections, advanced traffic-control systems, and vehicle communication infrastructure to improve transportation efficiency. Rising production of connected vehicles and growing adoption of C-V2X technologies are strengthening regional demand. Furthermore, rapid urban development and increasing congestion are

encouraging governments and transportation authorities to implement technologies supporting safer roads, better traffic coordination, and efficient mobility. These factors are expected to accelerate V2X adoption across Asia-Pacific.

Key players in the market

Some of the key players in Vehicle-to-Everything (V2X) Market include Qualcomm Technologies, Inc., Continental AG, Robert Bosch GmbH, NXP Semiconductors N.V., DENSO Corporation, HARMAN International, Cohda Wireless Pty Ltd., Aptiv PLC, Infineon Technologies AG, STMicroelectronics N.V., Renesas Electronics Corporation, Huawei Technologies Co., Ltd., Kapsch TrafficCom AG, Commsignia Ltd., LG Innotek Co., Ltd., Quectel Wireless Solutions Co., Ltd., Keysight Technologies, Inc. and Ficosa International, S.A.

Key Developments:

In May 2026, Qualcomm Technologies and Stellantis expanded their collaboration to use Snapdragon Digital Chassis solutions across next-generation vehicle architectures. In April 2026, Bosch and Qualcomm Technologies expanded their strategic collaboration from vehicle cockpit computers to ADAS solutions. The companies are jointly developing production-ready ADAS vehicle-computer platforms based on Qualcomm's Snapdragon Ride platform, including combined cockpit-and-ADAS architectures.

In April 2026, Infineon announced a collaboration with Valeo to develop a short-distance ground-projection module integrating Infineon's 2D MEMS mirror and controller into Valeo's high-definition projection system.

Communication Types Covered:

Vehicle-to-Vehicle (V2V)

Vehicle-to-Infrastructure (V2I)

Vehicle-to-Pedestrian (V2P)

Vehicle-to-Network (V2N)

Connectivity Technologies Covered:

Dedicated Short-Range Communications (DSRC)

Cellular Vehicle-to-Everything (C-V2X)

LTE-V2X

5G NR-V2X

IEEE 802.11p

Hybrid Connectivity

Components Covered:

Onboard Unit (OBU)

Roadside Unit (RSU)

V2X Communication Module

V2X Antenna

V2X Chipset

V2X Software

V2X Platform

Vehicle Types Covered:

Passenger Cars

Light Commercial Vehicles

Heavy Commercial Vehicles

Buses & Coaches

Emergency Vehicles

Special-Purpose Vehicles

Propulsion Types Covered:

Internal Combustion Engine Vehicles

Hybrid Electric Vehicles

Plug-in Hybrid Electric Vehicles

Battery Electric Vehicles

Fuel Cell Electric Vehicles

Automation Levels Covered:

Non-Automated Vehicles

Level 1

Level 2

Level 3

Level 4

Level 5

Communication Ranges Covered:

Short-Range V2X

Medium-Range V2X

Long-Range V2X

Deployment Environments Covered:

Urban Areas

Highways & Expressways

Rural Roads

Intersections

Smart Cities

Industrial & Logistics Zones

Connected Corridors

Security Technologies Covered:

Public Key Infrastructure (PKI)

Digital Certificates

Message Authentication

Identity & Access Management

Data Encryption

Intrusion Detection & Prevention

Security Credential Management

Privacy-Preserving Technologies

Applications Covered:

Collision Avoidance & Road Safety

Traffic Management & Optimization

Cooperative Driving

Autonomous & Automated Driving

Emergency Vehicle Warning

Vulnerable Road User Protection

Intelligent Parking

Navigation & Route Optimization

Infotainment & Connected Services

Fleet Management

Public Transportation Management

Electronic Toll Collection

Road Hazard & Weather Warning

End Users Covered:

Automotive OEMs

Tier-1 Automotive Suppliers

Fleet Operators

Logistics & Transportation Companies

Public Transit Operators

Government & Road Authorities

Smart City Operators

Telecommunications Operators

Infrastructure Providers

Mobility Service Providers

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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