

Global C-V2X RSU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global C-V2X RSU market size is expected to reach \$ 306 million by 2032, rising at a market growth of 7.7% CAGR during the forecast period (2026-2032).

C-V2X RSU (Cellular Vehicle-to-Everything Roadside Unit) refers to intelligent roadside communication equipment deployed along road infrastructure that enables low-latency, high-reliability wireless exchanges between vehicles, infrastructure, pedestrians, and cloud platforms using LTE-V2X or 5G-V2X communication standards, supporting traffic safety, cooperative perception, smart intersections, and autonomous-driving applications.

The C-V2X RSU industry chain begins upstream with key components such as communication chipsets, RF modules, GNSS modules, edge-computing processors, antennas, enclosures, and power supply systems, feeding into midstream manufacturers responsible for hardware assembly, communication protocol integration, operating system development, and V2X application software design, and extending downstream to system integrators, telecom operators, automotive ecosystems, smart-city contractors, and government agencies that deploy RSUs for traffic management, cooperative perception, and autonomous-driving scenarios, supported by service providers offering cloud platforms, remote management, and maintenance solutions. Ongoing and planned C-V2X RSU deployment projects include national intelligent-highway upgrades in Asia, large-scale smart-intersection transformations in major European cities, cooperative-perception corridor construction in North America, autonomous-driving demonstration zones expanding RSU coverage for V2X trials, government-funded digital-transportation initiatives integrating RSUs with 5G base stations, commercial fleet-connectivity projects adding RSU-enabled roadside infrastructure, and private industrial-park deployments enhancing automated-logistics systems, all driving continuous expansion of C-V2X roadside networks to support safety, efficiency, and autonomous-mobility scenarios.

2025 Global Market sales Volume: 45,568 Units. Average Global Market Price: USD 3,985 Per Unit. Market Average Gross Profit Margin: 22%.

The C-V2X RSU market is growing rapidly as governments and cities accelerate digital transportation upgrades to support connected vehicles and autonomous driving. Market development is driven by regulatory pushes toward roadside intelligence, the expansion of 5G infrastructure, and increasing cooperation between automotive manufacturers and telecommunications providers. Early deployments began with LTE-V2X, but 5G-V2X is becoming the mainstream direction due to its lower latency and enhanced support for cooperative perception. Regionally, Asia leads adoption because of large-scale smart-highway and urban-intersection projects, followed by Europe, where safety-focused V2X regulations are shaping deployment roadmaps. North America is advancing through autonomous-driving corridors and commercial fleet connectivity.

Opportunities exist in integrating RSUs with edge computing, high-precision positioning, and multi-sensor fusion, enabling advanced applications such as real-time obstacle warning, vulnerable road-user detection, and traffic flow prediction. Additionally, the shift toward autonomous-driving pilot zones presents a large upgrade cycle for RSUs with enhanced computing and communication functions. However, risks include high deployment costs, variations in V2X regulatory frameworks, uncertain business models, and potential delays in 5G roadside infrastructure rollout. Market trends show increasing demand for hybrid RSUs that support both LTE-V2X and NR-V2X, enabling smoother transitions across technology generations.

Competitive characteristics include strong involvement from telecom-equipment manufacturers, transportation-technology companies, and automotive Tier-1 suppliers, forming a moderately concentrated but innovation-driven ecosystem. Vendors differentiate through communication reliability, computing capability, software platforms, and integration with cloud-based traffic-management systems. Competition is also shaped by partnerships, as RSU vendors often collaborate with mobile operators and governments to pursue smart-transportation projects. As cities pursue long-term intelligent-mobility visions, the C-V2X RSU market is expected to continue expanding, supported by rising vehicle connectivity penetration and sustained investment in digital road infrastructure.

This report studies the global C-V2X RSU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for C-V2X RSU and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of C-V2X RSU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global C-V2X RSU total production and demand, 2021-2032, (K Units)

Global C-V2X RSU total production value, 2021-2032, (USD Million)

Global C-V2X RSU production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global C-V2X RSU consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: C-V2X RSU domestic production, consumption, key domestic manufacturers and share

Global C-V2X RSU production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global C-V2X RSU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global C-V2X RSU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global C-V2X RSU market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Harman International, Danlaw Inc., Yunex Traffic, Q-Free, Commsignia, Unex Technology, Iteris, Inc, Huawei, ZTE, Kapsch TrafficCom, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World C-V2X RSU market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global C-V2X RSU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global C-V2X RSU Market, Segmentation by Type:

Basic C-V2X

DSRC-V2X

Hybrid

Global C-V2X RSU Market, Segmentation by Communication Standard:

LTE-V2X RSU

5G-V2X RSU

Global C-V2X RSU Market, Segmentation by Installation Structure:

Pole-Mounted RSU

Gantry-Mounted RSU

Wall-Mounted RSU

Mobile/Temporary RSU

Global C-V2X RSU Market, Segmentation by Application:

Urban Intersection

Highway

Tunnel

Campus/Industrial Park

Companies Profiled:

Harman International

Danlaw Inc.

Yunex Traffic

Q-Free

Commsignia

Unex Technology

Iteris, Inc

Huawei

ZTE

Kapsch TrafficCom

Keysight

Gosuncn Technology

Gohigh Networks

Genvict Technologies

VanJee Technology

Key Questions Answered:

1. How big is the global C-V2X RSU market?
2. What is the demand of the global C-V2X RSU market?
3. What is the year over year growth of the global C-V2X RSU market?
4. What is the production and production value of the global C-V2X RSU market?
5. Who are the key producers in the global C-V2X RSU market?
6. What are the growth factors driving the market demand?

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