

Global Mobile V2X Simulator Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Mobile V2X Simulator market size is predicted to grow from US\$ 17.41 million in 2025 to US\$ 40.20 million in 2032; it is expected to grow at a CAGR of 12.8% from 2026 to 2032.

A mobile V2X simulator is a type of mobile or rapidly deployable testing equipment and hardware/software system designed for the development, system verification, road testing, proving ground verification, and C-ITS infrastructure deployment of vehicle-to-everything (V2X) functions. Its core capability is to generate standardized V2X communication messages between virtual vehicles, roadside facilities, and other traffic participants on a real or equivalent V2X wireless communication interface. These messages are then organized into repeatable test scenarios based on predefined locations, speeds, trajectories, time relationships, and traffic events. This allows real OBUs, RSUs, TCUs, V2X ECUs, domain controllers, or the entire vehicle to receive V2V, V2I, and V2P scenario stimuli with minimal involvement of real vehicles and infrastructure.

Key Findings

V2V-specific and full-scenario systems form the two defined communication-scenario categories

Maximum simulated node capacity is segmented into <100, 100–1,000 and >1,000 nodes

Non-real-time offline and real-time synchronized systems represent the two defined real-time architectures

Vehicle manufacturing and automotive components are important downstream application areas

Multi-standard support, scenario realism and deterministic synchronization are becoming key differentiation dimensions

Market Trends

Mobile V2X Simulator is evolving from relatively isolated protocol-message stimulation toward scenario-based testing that combines communication behavior, vehicle trajectories, GNSS positioning, traffic participants and physical radio signals. Keysight's WaveBee Togo is designed as a mobile, self-contained field-testing solution capable of turning simulated V2X scenarios into physical signals and generating a V2X network around the device under test, while Rohde & Schwarz and Vector have demonstrated scenario-based C-V2X testing that combines radio communication testing, GNSS simulation and CANoe.Car2x. Technology coverage is also broadening from LTE C-V2X and IEEE 802.11p/ITS-G5 toward newer 5G V2X capabilities. 3GPP introduced NR sidelink for V2X in Release 16 and continues sidelink evolution, while 5GAA identifies lower latency, greater reliability and richer real-time data exchange as important characteristics of 5G-V2X. These changes are pushing Mobile V2X Simulator toward multi-standard, multi-node and more deterministic real-time simulation capable of supporting increasingly complex cooperative-driving scenarios.

Market Dynamics

Drivers

The principal driver for Mobile V2X Simulator is the increasing verification burden created by connected and cooperative vehicle functions. V2X systems must correctly interpret messages from surrounding vehicles, roadside infrastructure and other road participants under changing traffic, positioning and radio conditions. 5GAA defines C-V2X as a platform connecting vehicles with vehicles, cyclists, pedestrians, infrastructure and mobile networks, creating a substantially broader test space than conventional V2V-only communication. Keysight notes that C-V2X hardware-in-the-loop testing requires realistic traffic and RF-congestion simulation for the host vehicle and surrounding remote vehicles, illustrating why repeatable simulation is important before large-scale road testing. Automotive OEMs and component suppliers also need to test applications repeatedly across regional protocol and message standards. Vector CANoe.Car2x

supports standards and application messages used in China, Europe and the United States, while Keysight provides region-specific configurations for its mobile V2X field-testing platform.

Restraints

The main restraints are system complexity, radio-environment reproducibility and the cost of scaling realistic scenarios. A Mobile V2X Simulator may need to coordinate traffic trajectories, location, V2X message timing, radio transmission, application logic and security credentials simultaneously. As simulated node counts rise, computing load, event scheduling, message density and timing coordination become increasingly demanding. Field testing introduces further variability because real RF interference, GNSS conditions and road infrastructure cannot be controlled as tightly as laboratory conditions. Rohde & Schwarz therefore combines radio and GNSS simulation with scenario software to create repeatable laboratory environments, while Keysight emphasizes spatially and temporally valid regression testing in mobile field operation. Multi-standard support also raises development cost because systems may need to accommodate IEEE 802.11p/ITS-G5, LTE C-V2X PC5, emerging NR-V2X functions and different regional application-message stacks. Vector's current platform illustrates this requirement by supporting both IEEE 802.11p and 3GPP C-V2X PC5 together with multiple regional protocol families.

Opportunities

The strongest opportunities lie in full-scenario simulation, real-time closed-loop testing and 5G-V2X evolution. Full-scenario systems can extend beyond V2V to reproduce vehicles, roadside units and broader C-ITS actors, creating more realistic safety and traffic-management tests. Keysight's current Mobile V2X Simulator supports scenario-based generation of messages from multiple vehicle or RSU nodes, while Vector can stimulate V2X functions using traffic scenarios and connect external simulation environments through its Car2x toolchain. Real-time synchronized systems provide further opportunities in HIL and closed-loop verification because vehicle ECUs and applications need to respond within realistic timing windows; Vector's Extended Real Time environment supports deterministic execution for simulation tasks with demanding latency and jitter requirements. Growth in NR sidelink and advanced V2X functions creates another technical opportunity as increasingly rich cooperative-driving use cases require test systems to recreate larger numbers of interacting actors, more complex message relationships and stricter timing behavior.

Challenges

A central challenge is maintaining scenario realism while preserving repeatability. Mobile V2X Simulator must generate the correct communication messages at the correct virtual positions and times while ensuring that the device under test perceives a physically and logically coherent traffic environment. This becomes harder as scenarios incorporate multiple vehicles, infrastructure, vulnerable road users and changing radio conditions. Keysight specifically emphasizes spatially and temporally valid regression testing, illustrating the importance of synchronization between scenario logic and physical V2X transmission. Another challenge is standards evolution. 3GPP continues to develop sidelink capabilities beyond the initial NR-V2X introduction, and regional V2X ecosystems retain different message and protocol requirements. Security adds another layer because certificates, signatures and trust mechanisms form part of real V2X operation; Vector already incorporates regional security mechanisms and certificate management within CANoe.Car2x. Vendors therefore need to maintain radio, protocol, scenario, timing and security expertise simultaneously while keeping mobile systems sufficiently compact and robust for field use.

Industry Chain Analysis

The upstream layer of the Mobile V2X Simulator industry chain includes C-V2X and ITS-G5 radio modules, RF front ends, antennas, GNSS receivers and simulators, precision timing components, processors and industrial computers, storage devices, batteries and vehicle power interfaces, ruggedized enclosures and communication test instruments. Software inputs include V2X protocol stacks, regional message databases, traffic and road-scenario engines, digital maps, test automation interfaces, security and PKI components, logging tools and data-analysis software. Vector's CANoe.Car2x supports application messages including CAM, DENM, SPaT, MAP and BSM as well as regional lower-layer protocols, demonstrating the breadth of software assets required for cross-regional simulation. Rohde & Schwarz's scenario architecture further illustrates the hardware interaction between radio communication testers, GNSS simulators and external V2X scenario software.

The midstream layer consists of Mobile V2X Simulator suppliers and system integrators that combine communication hardware, scenario software, test automation and mobile deployment architecture into usable verification systems. NOFFZ's ITN 3000, for example, is positioned as a remote-vehicle simulator supporting both C-V2X and DSRC/ITS-G5 for development, validation and production-oriented test workflows. Downstream customers include vehicle manufacturers, automotive-component

suppliers, intelligent-transportation organizations and communication-equipment developers. Value creation centers on replacing portions of difficult or unsafe physical road testing with reproducible virtual traffic participants and controllable communication conditions, while mobile deployment allows scenarios to be extended from laboratory validation into proving-ground and real-road environments.

Segment Insights

By communication scenario, V2V-specific Mobile V2X Simulator concentrates on message exchanges and interaction between the host vehicle and surrounding simulated vehicles. This architecture is suitable for functions whose principal trigger comes from another vehicle, and generally places strong emphasis on relative position, velocity, heading, message timing and radio-link behavior. Full-scenario systems broaden the simulation domain to include roadside infrastructure and other V2X actors. 5GAA describes C-V2X connectivity as spanning vehicles, pedestrians, cyclists, infrastructure and networks, while Keysight's mobile platform can simulate multiple vehicle and roadside-unit nodes. As applications move toward cooperative perception and coordinated driving, the value of full-scenario simulation increases because functional behavior depends on simultaneous information from multiple actor types.

By maximum simulated nodes, ~100-node systems are well suited to focused V2V tests, localized intersections and development-stage functional verification where scenario flexibility is more important than extreme scale. The 100–1,000-node segment addresses denser urban or multi-road-user scenarios and increases requirements for message scheduling, position management and RF-load control. >1,000-node systems correspond to large-scale stress, network-density and complex traffic simulations, where computing architecture, synchronization and efficient virtual-node management become more important. These segment distinctions reflect increasing simulation complexity rather than a uniform hardware architecture. By real-time capability, non-real-time offline systems are suited to scenario preparation, analysis and replay, while real-time synchronized systems are more relevant for HIL, ECU interaction and closed-loop tests requiring deterministic response. Vector provides hard-real-time execution options for simulations with stringent timing requirements.

Downstream Market Opportunities

Vehicle manufacturing is an important application for Mobile V2X Simulator because OEMs must evaluate complete vehicle responses to V2X messages, including communication reception, application logic and driver or vehicle-function responses.

Keysight positions its mobile field system specifically for automotive manufacturers and traffic-system manufacturers requiring reproducible V2X application tests. Automotive-component suppliers require similar tools for OBUs, communication modules, domain controllers and V2X-enabled ECUs, with HIL environments allowing component behavior to be verified before full-vehicle integration. Intelligent transportation creates opportunities around RSU, intersection and cooperative traffic scenarios; Vector supports simulation and analysis of V2X infrastructure and virtual RSUs before or alongside physical deployment. Communication-equipment applications create additional demand for RF, protocol and conformance-oriented simulation as C-V2X evolves from LTE sidelink toward 5G NR sidelink. Across these applications, higher-value opportunities concentrate in systems that can move the same scenario assets between offline development, laboratory closed-loop testing and mobile field verification.

Regional Insights

North America is an important development and deployment environment for Mobile V2X Simulator because automotive and intelligent-transportation programs are increasingly evaluating C-V2X-based safety and infrastructure applications. Keysight supports a dedicated regional configuration of its WaveBee Togo platform for markets outside the European AV1024A configuration, and its broader V2X portfolio covers laboratory and field verification. Europe has a diversified V2X testing environment in which ITS-G5/IEEE 802.11p and C-V2X technologies remain relevant to development and interoperability work. Vector supports European ETSI message and protocol structures as well as both IEEE 802.11p and C-V2X PC5, while Rohde & Schwarz and Vector have jointly implemented scenario-based C-V2X laboratory and field testing.

Asia-Pacific combines major automotive, electronics and communication-equipment industries with active C-V2X development. China is particularly relevant to regional V2X testing because its ecosystem uses dedicated C-SAE and related protocol requirements; Vector provides China-specific message and protocol support, while Rohde & Schwarz has participated in C-V2X conformance-test systems with the China Academy of Information and Communications Technology. 5GAA also reported continued C-V2X and 5G-Advanced deployment activity in Shanghai in 2025. Regional differences in spectrum, application messages, certification practices and infrastructure deployment therefore make multi-region protocol support and configurable radio architectures strategically important for Mobile V2X Simulator suppliers.

Competitive Landscape Analysis

The Mobile V2X Simulator competitive landscape is concentrated among a limited group of automotive communication-test and simulation specialists, with differentiation based more on system architecture and application depth than on a single hardware specification. Keysight Technologies has a clear mobile-field orientation through WaveBee Togo, a self-contained solution that generates physical V2X signals, supports multiple simulated vehicle or RSU nodes and covers DSRC and C-V2X communication. Rohde & Schwarz contributes strong RF, cellular and GNSS test capabilities and has combined its CMW500 and SMBV100B platforms with Vector CANoe.Car2x for scenario-based C-V2X verification. Vector Informatik differentiates through V2X protocol, scenario and ECU simulation, with support for China, Europe and U.S. message stacks, IEEE 802.11p, C-V2X PC5, security mechanisms and hard-real-time extensions. NOFFZ Technologies addresses application-level V2X testing through the ITN 3000 Remote Vehicle Simulator supporting C-V2X and DSRC/ITS-G5 and designed for integration into HIL, validation and production-test workflows. A&D Company and ZD Technology (Anhui) participate within the confirmed market scope. Competitive differentiation is increasingly determined by portability, protocol breadth, regional standards coverage, real-time determinism, simulated-node scalability, scenario-authoring efficiency, RF/GNSS integration and the ability to reproduce the same functional test consistently across laboratory and field environments.

Report Scope

LPI (LP Information)' newest research report, the "Mobile V2X Simulator Industry Forecast" looks at past sales and reviews total world Mobile V2X Simulator sales in 2025, providing a comprehensive analysis by region and market sector of projected Mobile V2X Simulator sales for 2026 through 2032. With Mobile V2X Simulator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Mobile V2X Simulator industry.

This Insight Report provides a comprehensive analysis of the global Mobile V2X Simulator landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Mobile V2X Simulator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mobile V2X Simulator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mobile V2X Simulator and breaks down the forecast by

Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Mobile V2X Simulator.

This report presents a comprehensive overview, market shares, and growth opportunities of Mobile V2X Simulator market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Type:

V2V Specialized Simulator

Full-Scenario Simulator

Segmentation by Maximum Number of Simulated Nodes per Device:

?100

100~1000

?1000

Segmentation by Real-Time Performance:

Non-Real-Time Offline

Real-Time Synchronous

Segmentation by Application:

Vehicle Manufacturing

Automotive Parts

Intelligent Transportation

Communication Equipment

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Keysight Technologies, Inc.

Rohde & Schwarz GmbH & Co. KG

Vector Informatik GmbH

NOFFZ Technologies GmbH

A&D Company, Limited

ZD Technology (Anhui)

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