

Global Vehicle Positioning Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vehicle Positioning Module market size is expected to reach \$ 957 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

In 2025, global Vehicle Positioning Module production reached approximately 17.48 million units, with an average global market price of around US\$30 per unit.

A vehicle positioning module, also referred to as an automotive positioning module or automotive GNSS module, is an embedded electronic component designed to determine the position, altitude, speed, heading, and timing of passenger cars, commercial vehicles, and special-purpose vehicles. It receives signals from satellite navigation constellations such as GPS, BeiDou, Galileo, GLONASS, and QZSS and supplies positioning data to in-vehicle navigation, telematics, fleet management, emergency response, V2X, and advanced driver-assistance systems. A typical module integrates a GNSS RF front end, positioning processor, low-noise amplifier, RF filters, temperature-compensated oscillator, memory, and digital interfaces. More advanced products may also integrate an inertial measurement unit, dead-reckoning algorithms, and RTK positioning to maintain continuous location information in tunnels, underground parking facilities, and dense urban environments. Unlike a complete vehicle tracker, the module normally does not include a finished enclosure, cellular service, cloud platform, or full vehicle power-management circuit; instead, it is embedded into T-Boxes, telematics control units, infotainment systems, eCall devices, V2X terminals, and ADAS controllers.

The upstream supply chain of vehicle positioning modules includes GNSS baseband and RF chipsets, MEMS inertial sensors, SAW or BAW filters, low-noise amplifiers, TCXOs, memory devices, printed circuit boards, package substrates, shielding

components, and connectors. GNSS chipsets determine satellite-signal processing performance, while IMUs and dead-reckoning algorithms support continuous positioning when satellite reception is obstructed. RF filters and oscillators affect interference resistance, sensitivity, and timing stability. Representative component suppliers include STMicroelectronics, Qualcomm, Sony, TDK InvenSense, Murata, Seiko Epson, Samsung Electro-Mechanics, and Molex. Midstream module and positioning-solution suppliers include Teltonika, Queclink, Jimi IoT, CalAmp, Geotab. Downstream customers include automotive OEMs, Tier 1 electronics suppliers, commercial-vehicle telematics providers, fleet-management operators, ADAS developers, V2X solution providers, and shared-mobility companies, with representative participants such as Bosch, Continental, Denso, Aptiv, Harman, Toyota, Volkswagen, BYD, and Li Auto. These companies illustrate the value chain and application markets rather than confirmed direct supplier relationships.

The vehicle positioning module market is evolving from conventional navigation and vehicle-tracking applications toward high-precision positioning, sensor fusion, and intelligent-driving systems. As connected vehicles, T-Boxes, eCall, V2X, and ADAS become more widely adopted, vehicle manufacturers are placing greater emphasis on positioning continuity, integrity, interference resistance, and automotive-grade reliability. Multi-constellation and multi-frequency reception, GNSS/IMU fusion, dead reckoning, RTK, and cloud-based correction services are becoming key technology directions. Growth is driven by connected-vehicle penetration, commercial-fleet digitalization, increasingly advanced driver-assistance functions, emergency-response and road-charging requirements, shared mobility, and fleet-operation management. At the same time, satellite obstruction, multipath errors, jamming, and spoofing risks in tunnels and dense urban areas are supporting demand for integrated navigation and high-integrity positioning solutions. Key restraints include long automotive qualification cycles, sustained price pressure, high vehicle-grade development costs, correction-service expenses, semiconductor supply-chain volatility, and competition or substitution from vision, radar, and inertial localization technologies. Overall, the standard single-frequency module segment is becoming mature, while dual-frequency, dead-reckoning, and high-precision modules for ADAS, V2X, advanced navigation, and automated driving retain stronger growth and pricing potential.

This report studies the global Vehicle Positioning Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vehicle Positioning Module 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 Vehicle Positioning Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vehicle Positioning Module total production and demand, 2021-2032, (K Units)

Global Vehicle Positioning Module total production value, 2021-2032, (USD Million)

Global Vehicle Positioning Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Vehicle Positioning Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Vehicle Positioning Module domestic production, consumption, key domestic manufacturers and share

Global Vehicle Positioning Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Vehicle Positioning Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vehicle Positioning Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vehicle Positioning Module 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 Teltonika, Spireon, Radius Telematics, Ruptela, Orbocomm, CalAmp, Sierra Wireless, Trackimo, Geotab, Jimi IoT, 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 Vehicle Positioning Module 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 Vehicle Positioning Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vehicle Positioning Module Market, Segmentation by Type:

GPS

Galileo

GLONASS

BeiDou

Others

Global Vehicle Positioning Module Market, Segmentation by Structure:

Wired

Wireless

Global Vehicle Positioning Module Market, Segmentation by Positioning Accuracy:

1.5?5 Meters

0.5?1.5 Meters

0.1?0.5 Meters

Others

Global Vehicle Positioning Module Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

Teltonika

Spireon

Radius Telematics

Ruptela

Orbocomm

CalAmp

Sierra Wireless

Trackimo

Geotab

Jimi IoT

Queclink Wireless Solutions

Boshijie Technology

Gosuncn Technology

Shenzhen Xinyuanrun

Neoway Technology

Meitrack

Coban Electronics

Shenzhen Vodofo

ATrack Technology

Eelink

Key Questions Answered:

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

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