

Global Wireless Antennas in Automotive Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Wireless Antennas in Automotive market size was valued at US\$ 7501 million in 2025 and is forecast to a readjusted size of US\$ 10553 million by 2032 with a CAGR of 5.0% during review period.

Wireless antennas used in the automotive field are automotive-grade antenna products designed for passenger vehicles, commercial vehicles, and intelligent connected vehicles to support broadcast reception, navigation and positioning, cellular communication, and related wireless connectivity functions. These products are typically deployed in forms such as roof shark-fin antennas, glass-mounted antennas, hidden internal antennas, and other special structural designs, with installation locations including the vehicle roof, windshield, side windows, dashboard interior, body trim interior, and communication module interior. From a functional perspective, automotive wireless antennas mainly serve three categories of demand: broadcast reception, navigation and positioning, and cellular connectivity. Broadcast reception antennas are used for receiving AM, FM, DAB, and SXM signals. Navigation and positioning antennas are used for GNSS systems such as GPS, GLONASS, BeiDou, and Galileo. Cellular connectivity antennas are used for 2G, 3G, 4G, and 5G vehicle communication, supporting applications such as telematics, remote diagnostics, over-the-air updates, eCall, and remote control. Some products integrate two or three of these functions within one module, but for classification purposes they may be assigned according to their primary function or the key positioning emphasized by the manufacturer. Overall, automotive wireless antennas have evolved from traditional single-function broadcast components into essential hardware within the connectivity architecture of modern vehicles. With the growth of smart cockpits, remote services, driver assistance, and high-

precision positioning, these products continue to develop toward higher integration, smaller size, concealed installation, and multi-band multi-mode capability, while becoming more closely linked with vehicle E/E architecture, T-Box, TCU, and in-vehicle infotainment systems.

The industry position of wireless antennas used in the automotive field has shifted from that of a traditional low-visibility supporting component to a foundational interface within the connectivity architecture of intelligent vehicles. In the past, automotive antennas were mainly associated with AM/FM broadcast reception and basic signal reception enhancement, and their role within the overall vehicle system was relatively limited. However, as vehicle electronic and electrical architectures continue to evolve, demand for both external communication and internal system coordination has increased significantly. As a result, the functional scope of automotive wireless antennas has expanded well beyond simple reception and now includes broadcast reception, navigation and positioning, cellular communication, remote control, over-the-air updates, fleet management, emergency calling, and broader connected vehicle communication functions. In this context, the antenna is no longer merely a discrete part mounted on the roof or glass, but one of the core hardware interfaces working together with the T-Box, TCU, smart cockpit, driver assistance systems, vehicle control architecture, and remote service platform. For OEMs and Tier 1 suppliers, the importance of automotive antennas is increasingly defined not by whether they are present, but by whether their performance is sufficient, their integration capability is strong, and their platform compatibility is reliable. Especially as intelligent connected vehicles become more widespread, antennas are becoming essential components that directly affect vehicle connectivity, positioning capability, and the quality of remote digital services, which is one of the main reasons this segment continues to retain strategic relevance and demand resilience.

From the perspective of product evolution, the clearest trends in the automotive wireless antenna industry are higher integration, smaller size, more concealed installation, and multi-band multi-mode capability. Traditional rod antennas or single-purpose broadcast antennas are no longer sufficient for the increasingly complex wireless requirements of modern vehicles. Mainstream products are now moving toward roof shark-fin designs, glass-mounted antennas, hidden internal antennas, and other special integrated structures. Among these, the roof shark-fin form remains the most widely adopted because it offers a practical balance among styling, aerodynamic performance, ease of installation, and multi-function integration. At the same time, glass-mounted and hidden internal antenna solutions are becoming more important because they help reduce exposed structures, improve design integration, optimize packaging space, and simplify

assembly. From the functional side, broadcast reception, navigation and positioning, and cellular connectivity have become the three core categories, but the real growth driver of the market is not any single function alone. Instead, it lies in the combination and coordination of multiple wireless functions within one module. In other words, the market increasingly demands products capable of handling broadcast, GNSS, and cellular communication simultaneously, and potentially even more wireless tasks. Going forward, competition will no longer focus primarily on whether a supplier can produce a particular type of antenna, but on whether it can achieve multi-function coordination, stable mass production, and platform-level integration within limited vehicle space. This will continue to raise technical barriers, customer stickiness, and nomination thresholds across the industry.

From the standpoint of regional supply structure and long-term market prospects, the automotive wireless antenna industry has already developed into a global competitive landscape shaped by Japanese, Korean, Mainland Chinese, Taiwanese, European, and American players, each with different strengths. Japanese companies generally maintain advantages in traditional vehicle antenna engineering, long-term OEM supply relationships, and manufacturing consistency. Korean suppliers are active in vehicle electronics integration, intelligent vehicle connectivity, and production coordination. Mainland Chinese companies are advancing rapidly in intelligent connected vehicle applications, high-precision positioning, customized development, and local OEM support. Taiwanese suppliers show flexibility in RF component ecosystems, vehicle module cooperation, and manufacturing responsiveness. European and American firms continue to hold influence in multi-function antenna solutions, global platform customers, and high-reliability or special-application scenarios. On the demand side, the major markets are still expected to remain China, Japan, Korea, Europe, and North America, where intelligent vehicle penetration is relatively high and expectations for connected services, remote functions, high-precision positioning, driver assistance, and online vehicle capability are stronger. Overall, as long as the automotive industry continues to move toward intelligence, connectivity, and service-oriented operation, automotive wireless antennas will not remain a marginal accessory market. Instead, they will increasingly be regarded as critical foundational components. Their long-term opportunities will come not only from vehicle shipment growth, but also from higher wireless functionality per vehicle, more integrated communication tasks, and rising value per unit, supporting a positive medium- to long-term outlook for this segment.

This report is a detailed and comprehensive analysis for global Wireless Antennas in Automotive market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Wireless Antennas in Automotive market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Wireless Antennas in Automotive market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Wireless Antennas in Automotive market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Wireless Antennas in Automotive market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Wireless Antennas in Automotive

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Wireless Antennas in Automotive market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amphenol, Molex, Pulse Electronics, Ace Technologies, Taoglas, Shenzhen Sunway Communication, Harada Industry Co., Ltd., Yokowo Co., Ltd., MinebeaMitsumi Inc., Winnercom Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Wireless Antennas in Automotive market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

UHF Antenna

VHF Antenna

Market segment by Installation Position

Roof Shark Fin

Glass-Mounted

Hidden Internal

Other

Market segment by Function

Broadcast Reception

Navigation & Positioning

Cellular Connectivity

Other

Market segment by Application

Passenger Cars

Commercial Vehicles

Major players covered

Amphenol

Molex

Pulse Electronics

Ace Technologies

Taoglas

Shenzhen Sunway Communication

Harada Industry Co., Ltd.

Yokowo Co., Ltd.

MinebeaMitsumi Inc.

Winnercom Co., Ltd.

ACE ANTENNA Co., Ltd.

Auden Techno Corp.

Harxon Corporation

Changzhou CTW Electronics Co., Ltd.

Wieson Technologies Co., Ltd.

Jebsee Electronics Co., Ltd.

Unictron Technologies Corporation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Wireless Antennas in Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Wireless Antennas in Automotive, with price, sales quantity, revenue, and global market share of Wireless Antennas in Automotive from 2021 to 2026.

Chapter 3, the Wireless Antennas in Automotive competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wireless Antennas in Automotive breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Wireless Antennas in Automotive market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Wireless Antennas in Automotive.

Chapter 14 and 15, to describe Wireless Antennas in Automotive sales channel, distributors, customers, research findings and conclusion.

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