

Automotive Smart Antenna Market Size, Share & Trends Analysis Report By Vehicle (Passenger Vehicles, Commercial Vehicles), By Propulsion (Electric, Non-electric), By Sales Channel, By Frequency, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Automotive Smart Antenna Market Trends

The global automotive smart antenna market size was estimated at USD 2.31 billion in 2023 and is expected to grow at a CAGR of 13.4% from 2024 to 2030. The market growth is attributed to the rising consumer demand for advanced vehicles equipped with cutting-edge navigation tools, infotainment systems, and connectivity features requiring robust antenna systems. The high usability of smart antennas in facilitating seamless integration of GPS navigation, Wi-Fi hotspot capabilities, Bluetooth connectivity, satellite radio reception, and cellular communication to enhance overall vehicle connectivity is accelerating the growth of the market.

The growth of the automotive smart antenna market is further driven by the stringent regulatory norms mandating the inclusion of connectivity features in vehicles to improve road safety, emissions monitoring, and emergency response capabilities. Smart antennas ensure compliance with these regulations by supporting essential communication functions such as eCall in the European Union and ERA-GLONASS in Russia. As automotive manufacturers are required to adhere to safety and emissions standards, smart antennas help meet these requirements by enabling

efficient communication between vehicles, infrastructure, and other road users, enhancing overall operational efficiency and the safety of vehicles.

Technological advancements are pivotal in driving the growth of the automotive smart antenna market as they enable smart antennas to integrate multiple functions into a single unit. This includes capabilities such as GPS navigation, cellular communication, satellite radio reception, Wi-Fi connectivity, and V2X communication. Integrating these functions reduces the complexity and footprint of antenna systems in vehicles, enhancing overall efficiency and performance.

Moreover, the expansion of 5G technology is also driving the demand for smart antennas capable of supporting higher data speeds and lower latency. Smart antennas designed with 5G compatibility enable advanced applications such as real-time HD video streaming, augmented reality navigation, and cloud-based services within vehicles. Such technological advancements are expected to open significant growth opportunities for the automotive smart antenna market over the coming years.

Global Automotive Smart Antenna Market Report Segmentation

This report forecasts and estimates revenue growth at the global, regional, and country levels along with analyzes the latest market trends and opportunities in each one of the sub-segments from 2018 to 2030. For this study, Grand View Research has further segmented the global automotive smart antenna market report based on vehicle, propulsion, sales channel, frequency, and region.

Vehicle Outlook (Revenue, USD Million, 2018 - 2030)

Passenger Vehicles

Commercial Vehicles

Propulsion Outlook (Revenue, USD Million, 2018 - 2030)

Electric

Non-electric

Sales Channel Outlook (Revenue, USD Million, 2018 - 2030)

OEM

Aftermarket

Frequency Outlook (Revenue, USD Million, 2018 - 2030)

High

Very High

Ultra-high

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

Japan

China

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

UAE

Saudi Arabia

South Africa

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