

# Automotive Refrigerants Market Size, Trends, Analysis, and Outlook by Type (R134a, R1234yf, R12, Others), Application (OEM, Aftermarket), Vehicle (Passenger cars, Commercial vehicles), by Country, Segment, and Companies, 2024-2030

<https://marketpublishers.com/r/ADDD13FDAA0CEN.html>

Date: April 2024

Pages: 205

Price: US\$ 3,980.00 (Single User License)

ID: ADDD13FDAA0CEN

## Abstracts

The global Automotive Smart Antenna market size is poised to register 8.1% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The study analyzes the global Automotive Smart Antenna market by Component (Transceiver, Electronic Control Unit (ECU), Others), Frequency (High, Very High, Ultra-High), Sales Channel (OEM, Aftermarket), Vehicle (Passenger Car, Light Commercial Vehicles, Heavy Commercial Vehicles), Electric Vehicle (Battery Electric Vehicle (BEV), Fuel Cell Electric Vehicle (FCEV), Plug-in Hybrid Vehicle (PHEV)).

The Automotive Smart Antenna Market is poised for robust evolution, driven by the increasing integration of advanced connectivity features and autonomous driving technology in vehicles is driving the demand for smart antennas capable of supporting multiple communication protocols, including cellular, Wi-Fi, Bluetooth, and satellite navigation systems. This trend is further accentuated by the rise of connected vehicles and the Internet of Things (IoT), driving the need for reliable and efficient communication between vehicles, infrastructure, and external services. Secondly, advancements in antenna design and technology, such as phased array antennas, beamforming, and MIMO (Multiple Input Multiple Output) systems, are enhancing the performance and reliability of smart antennas, enabling faster data transmission rates, improved signal quality, and expanded coverage areas. Further, the expansion of the global automotive market, particularly in emerging economies, presents opportunities for smart antenna manufacturers to cater to the growing demand for vehicles equipped with advanced connectivity solutions tailored to regional connectivity standards and

consumer preferences. In addition, the increasing emphasis on vehicle electrification and autonomous driving is reshaping the automotive smart antenna market, with a focus on antennas optimized for electric drivetrains and autonomous driving systems, capable of supporting high-bandwidth data transmission and low-latency communication for real-time sensor data processing and decision-making. Furthermore, the growing importance of cybersecurity and data privacy is driving innovation in smart antenna technology, with a focus on secure communication protocols and encryption methods to protect sensitive vehicle data from cyber threats. .

### Automotive Smart Antenna Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Automotive Smart Antenna market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Automotive Smart Antenna survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Automotive Smart Antenna industry.

### Key market trends defining the global Automotive Smart Antenna demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

### Automotive Smart Antenna Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Automotive Smart Antenna industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Automotive Smart Antenna companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Automotive Smart Antenna industry  
Leading Automotive Smart Antenna companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and

surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Automotive Smart Antenna companies.

#### Automotive Smart Antenna Market Study- Strategic Analysis Review

The Automotive Smart Antenna market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis.

Explore potential market disruptions, technology advancements, and economic changes.

#### Automotive Smart Antenna Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Automotive Smart Antenna industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

#### Automotive Smart Antenna Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

#### North America Automotive Smart Antenna Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Automotive Smart Antenna market segments. Similarly, Strong end-user demand is encouraging Canadian Automotive Smart Antenna companies to invest in niche segments. Further, as Mexico continues to

strengthen its trade relations and invest in technological advancements, the Mexico Automotive Smart Antenna market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Automotive Smart Antenna Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Automotive Smart Antenna industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Automotive Smart Antenna market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Automotive Smart Antenna Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Automotive Smart Antenna in Asia Pacific. In particular, China, India, and South East Asian Automotive Smart Antenna markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Automotive Smart Antenna Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Automotive Smart Antenna Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar,

Kuwait, and other GCC countries supports the overall Middle East Automotive Smart Antenna market potential. Fueled by increasing consumption expenditure, growing population, and high demand across a few markets drives the demand for Automotive Smart Antenna.

#### Automotive Smart Antenna Market Company Profiles

The global Automotive Smart Antenna market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Airgain, Continental AG, Denso Corp, Ficosa Internacional Sa, Forvia, Harada Industry Co. Ltd, Harman International, Hirschmann Car Communication GmbH, Inpaq Technology Co. Ltd, Kathrein Solutions GmbH, Laird Connectivity, Robert Bosch GmbH, Schaffner Holding AG, Taoglas Ltd, TE Connectivity, Yokowo Co. Ltd.

#### Recent Automotive Smart Antenna Market Developments

The global Automotive Smart Antenna market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

#### Automotive Smart Antenna Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

#### Market Segmentation:

Component

Transceiver

Electronic Control Unit (ECU)

Others

Frequency

High

Very High

Ultra-High

Sales Channel

OEM

Aftermarket

Vehicle

Passenger Car

Light Commercial Vehicles

Heavy Commercial Vehicles

Electric Vehicle

Battery Electric Vehicle (BEV)

Fuel Cell Electric Vehicle (FCEV)

Plug-in Hybrid Vehicle (PHEV)

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Airgain

Continental AG

Denso Corp

Ficosa Internacional Sa

Forvia

Harada Industry Co. Ltd

Harman International

Hirschmann Car Communication GmbH

Inpaq Technology Co. Ltd

Kathrein Solutions GmbH

Laird Connectivity

Robert Bosch GmbH

Schaffner Holding AG

Taoglas Ltd

TE Connectivity

Yokowo Co. Ltd.

Formats Available: Excel, PDF, and PPT

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R12

Others

Application

OEM

Aftermarket

Vehicle

Passenger cars

Commercial vehicles

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Arkema Group

Daikin Industries Ltd

DENSO Corp

Dongyue Group Ltd

DuPont de Nemours Inc

Enviro-Safe Refrigerants Inc

Hanon Systems

HELLA GmbH and Co. KGaA

Hitachi Ltd

Honeywell International Inc

Johnson Electric Holdings Ltd

Linde Plc

MAHLE GmbH

National Refrigerants Inc

Sinochem Group Co. Ltd

The Chemours Co.

Toyota Industries Co

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