

Global Automotive Millimeter Wave Radar Market Growth 2025-2031

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Abstracts

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The global Automotive Millimeter Wave Radar market size is predicted to grow from US\$ 17780 million in 2025 to US\$ 52760 million in 2031; it is expected to grow at a CAGR of 19.9% from 2025 to 2031.

Millimeter-wave radar is a radar sensor that uses an antenna to emit millimeter waves with a wavelength of 1-10mm and a frequency of 24-300GHz as radiated waves. Millimeter-wave radar obtains physical environmental information such as the relative distance, relative speed, angle and direction of movement between the car and other objects by processing the target reflection signal. Millimeter-wave radar can track and classify targets based on the detected object information. The electronic control unit (ECU) makes intelligent decisions based on the dynamic information of the vehicle body, and informs the driver through various sensing methods such as sound, light and touch, or directly performs automatic speed change and braking processing, thereby reducing the probability of driving accidents. It is mainly used for adaptive cruise control, collision avoidance, blind spot detection, lane change assistance, parking assistance, rear vehicle warning, pedestrian detection, etc., and has the advantage of stable detection of targets under adverse weather conditions such as rain and snow.

Automotive millimeter-wave radar is an essential sensor technology in modern vehicle intelligence systems, particularly in autonomous driving, Advanced Driver Assistance Systems (ADAS), and safety control systems. By emitting and receiving millimeter-wave signals, this radar can detect objects, obstacles, and pedestrians around the vehicle in real-time, providing precise information on distance, speed, and angle. Its advantages lie in its strong penetration capabilities, all-weather functionality, and high-precision

positioning, making it one of the foundational technologies for future intelligent transportation and autonomous driving.

One of the primary advantages of automotive millimeter-wave radar is its strong penetration. Unlike LiDAR and cameras, millimeter-wave radar is not affected by weather conditions or lighting, allowing it to function in rain, fog, or low-light environments. This makes millimeter-wave radar highly reliable and stable in all-weather driving conditions, particularly in complex driving scenarios such as bad weather, intricate road networks, or dense urban areas. It provides continuous sensing capabilities to ensure driving safety.

In addition, millimeter-wave radar offers high precision and sensitivity, effectively detecting objects within a range of several hundred meters ahead of the vehicle and accurately tracking multiple objects. By integrating with other sensors like cameras and LiDAR, millimeter-wave radar enhances the environmental awareness of autonomous driving systems, improving decision-making and response time, thus enhancing the safety of autonomous driving or driver assistance systems.

However, automotive millimeter-wave radar faces some challenges and limitations. First, it has a relatively low resolution compared to other sensors, which may limit its ability to detect small objects or objects with low reflectivity. Unlike LiDAR, millimeter-wave radar does not provide fine 3D imaging, which limits its precision in certain applications. Additionally, although millimeter-wave radar has a long detection range, it still faces challenges in tracking and identifying fast-moving objects or complex dynamic scenes at high speeds, which could impact its overall system performance.

Despite these challenges, the future prospects of automotive millimeter-wave radar are very promising. As signal processing technology and algorithms continue to advance, radar resolution, detection range, and recognition capabilities will improve. With the rapid development of autonomous driving and intelligent connected vehicles, millimeter-wave radar will complement other sensors to build more comprehensive autonomous driving perception systems, further driving the widespread adoption of intelligent transportation systems.

LP Information, Inc. (LPI) ' newest research report, the "Automotive Millimeter Wave Radar Industry Forecast" looks at past sales and reviews total world Automotive Millimeter Wave Radar sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Millimeter Wave Radar sales for 2025 through 2031. With Automotive Millimeter Wave Radar sales broken down by region,

market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Millimeter Wave Radar industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Millimeter Wave Radar 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 Automotive Millimeter Wave Radar.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Millimeter Wave Radar market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

77 GHz

24 GHz

Others

Segmentation by Application:

Adaptive Cruise Control System

Blind Spot Detection

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Bosch

Continental

Denso

Hella

Veoneer

Valeo

Aptiv

ZF

WHST

Hitachi Astemo

Nidec Elesys

Cheng-Tech

Chuhang Tech

HUAYU Automotive Systems

Desay SV

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Millimeter Wave Radar market?

What factors are driving Automotive Millimeter Wave Radar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Millimeter Wave Radar market opportunities vary by end market size?

How does Automotive Millimeter Wave Radar break out by Type, by Application?

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