

Global ADAS mmWave Radar Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ADAS mmWave Radar Sensor market size is expected to reach \$ 10280 million by 2032, rising at a market growth of 13.7% CAGR during the forecast period (2026-2032).

The ADAS mmWave Radar Sensor industry is accelerating towards higher performance and integration, with the future market exhibiting a mainstream trend of upgrading to 4D imaging radar to meet the demands of higher-level autonomous driving. According to the 'New Energy Vehicle Industry Development Plan (2021-2035)' issued by the Ministry of Industry and Information Technology, the state explicitly proposes to break through core technologies for automotive sensors and promote the industrialization of advanced driver assistance systems, providing policy guidance for the technological upgrade of millimeter-wave radar. In terms of corporate trends, international giants such as Bosch and Continental Group have repeatedly emphasized the R&D progress and mass production plans for 4D imaging radar in official news and annual reports, noting that it offers higher resolution and point cloud density, significantly enhancing perception capabilities in complex road conditions. Meanwhile, to comply with the centralized development of automotive electronic and electrical architectures, manufacturers are committed to deeply integrating radar processing chips with sensors. Domestic enterprises like Jingwei Hirain and Desay SV have stated in their annual reports that they are accelerating the R&D of high-performance millimeter-wave radar products to expand market share. The overall industry trend indicates that as vehicle manufacturers demand more intelligent driving functions, mmWave radar sensors with higher detection precision and environmental adaptability will become key incremental components, with the upstream and downstream of the industrial chain engaging in deep competition centered on core chips and algorithm optimization.

ADAS mmWave Radar Sensors serve as a critical perception layer for active safety systems by emitting radio waves to continuously detect the distance, relative speed, and azimuth angle of surrounding objects with high precision. These devices function robustly across diverse environmental conditions such as darkness, fog, and rain, ensuring reliable data acquisition for automated decision-making processes where optical sensors might fail. By providing instant and accurate velocity measurements through the Doppler effect, these sensors facilitate precise vehicle control actions including automatic emergency braking and adaptive cruise control. Ultimately, this technology ensures the stability and redundancy of the vehicle's perception architecture, which is essential for maintaining safe driving operations.

This report studies the global ADAS mmWave Radar Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for ADAS mmWave Radar Sensor 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 ADAS mmWave Radar Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global ADAS mmWave Radar Sensor total production and demand, 2021-2032, (K Units)

Global ADAS mmWave Radar Sensor total production value, 2021-2032, (USD Million)

Global ADAS mmWave Radar Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global ADAS mmWave Radar Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: ADAS mmWave Radar Sensor domestic production, consumption, key domestic manufacturers and share

Global ADAS mmWave Radar Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global ADAS mmWave Radar Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global ADAS mmWave Radar Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global ADAS mmWave Radar Sensor 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 Bosch, Continental, ZF, Aptiv, Hella, Valeo, Veoneer, Arbe, Uhnder, Zadar Labs, 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 ADAS mmWave Radar Sensor 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 ADAS mmWave Radar Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ADAS mmWave Radar Sensor Market, Segmentation by Type:

60 GHz Radar Sensor

77GHz Radar Sensor

140GHz Radar Sensor

Global ADAS mmWave Radar Sensor Market, Segmentation by Detection Dimension:

2D mmWave Radar Sensor

3D mmWave Radar Sensor

4D mmWave Radar Sensor

Global ADAS mmWave Radar Sensor Market, Segmentation by Detection Range:

?30 m

30?100m

100?250m

?250m

Global ADAS mmWave Radar Sensor Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Bosch

Continental

ZF

Aptiv

Hella

Valeo

Veoneer

Arbe

Uhnder

Zadar Labs

Smartmicro

Hitachi

Nidec Elesys

Ainstein

Vayyar

Desay SV Automotive

SenseTime Automotive

Sion Leading Motion

Huayu Automotive Systems

Key Questions Answered:

1. How big is the global ADAS mmWave Radar Sensor market?
2. What is the demand of the global ADAS mmWave Radar Sensor market?

3. What is the year over year growth of the global ADAS mmWave Radar Sensor market?
4. What is the production and production value of the global ADAS mmWave Radar Sensor market?
5. Who are the key producers in the global ADAS mmWave Radar Sensor market?
6. What are the growth factors driving the market demand?

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