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Global Radar for Autonomous Vehicles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radar for Autonomous Vehicles market size is expected to reach $ 22304 million by 2032, rising at a market growth of 16.0% CAGR during the forecast period (2026-2032).
Radar for autonomous vehicles is a onboard environmental perception sensor that works based on the principle of electromagnetic wave reflection. By emitting electromagnetic waves in a specific frequency band and receiving the reflected signals from the target, it accurately detects the distance, speed, angle, and trajectory of obstacles around the vehicle. It has the characteristics of all-weather (resistant to fog, rain, and snow) and strong anti-interference (unaffected by light). It is a core component of autonomous driving systems to realize environmental perception, decision-making, and planning, and works with cameras and lidar to build the vehicle's 'perception neural network'.
In 2025, the global production of radar for autonomous vehicles was 41.86 million units, with an average price of $180 per unit.
Upstream of radar for autonomous vehicles mainly includes millimeter-wave RF chips, antennas and packaging materials, silicon and compound semiconductor substrates, power and signal processing devices, and testing and calibration equipment, with strong reliance on advanced chip processes and automotive-grade reliability. Downstream represents the core of value creation, serving passenger and commercial vehicle OEMs, autonomous driving solution providers, and large-scale deployment of advanced driver assistance systems across front, side, and corner radar positions. Downstream customers emphasize detection range and angular resolution, robustness in adverse weather, sensor fusion performance with cameras and LiDAR, system cost and power consumption, automotive certification, and long-term supply capability. With the expansion from L2 to L3 functions, radar count per vehicle continues to rise, and platform-based mass procurement is becoming standard.

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Industry trends focus on the shift toward high-resolution and 4D imaging radar, enabling multi-channel architectures and software-defined radar, while leveraging CMOS integration and advanced packaging to achieve miniaturization, cost reduction, and higher reliability. Key drivers include stricter ADAS regulations and safety ratings, growing consumer acceptance of active safety features, strong demand for stable perception under harsh conditions, and OEM preference for cost-effective sensing solutions. Major constraints include false alarms and multipath interference in complex traffic scenarios, increasing complexity of algorithms and system calibration, rising costs of sensor fusion, and intensifying price competition.

Overall gross margins for automotive radar are at a medium-to-high level, typically ranging from 35% to 55%. Vendors with in-house millimeter-wave chips, integrated hardware-software capabilities, strong OEM relationships, and large-scale production achieve higher margins, though margins are expected to gradually compress over the long term as volumes grow and pricing pressure increases.

This report studies the global Radar for Autonomous Vehicles production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Radar for Autonomous Vehicles total production and demand, 2021-2032, (Units)

Global Radar for Autonomous Vehicles total production value, 2021-2032, (USD Million)

Global Radar for Autonomous Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Radar for Autonomous Vehicles consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Radar for Autonomous Vehicles domestic production, consumption, key domestic manufacturers and share

Global Radar for Autonomous Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Radar for Autonomous Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Radar for Autonomous Vehicles production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Radar for Autonomous Vehicles market based on the following parameters - company overview, production, value, price, gross

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margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Huawei, Desay SV, Huayu Automotive, Sensortech, Cohda Wireless, Chengtai Technology, Navtech Radar, Zhibo Technology, Weifu High-Technology Group, HiRain Technologies, 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 Radar for Autonomous Vehicles market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (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 Radar for Autonomous Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radar for Autonomous Vehicles Market, Segmentation by Type:

Polyethylene Oxide (PEO) Based SPE

Polycarbonate Based SPE

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Polyacrylonitrile (PAN) Based SPE

Polyvinylidene Fluoride (PVDF) and Its Copolymers Based SPE

Global Radar for Autonomous Vehicles Market, Segmentation by Detection Range:

Short-Range Radar (SRR)

Medium-Range Radar (MRR)

Long-Range Radar (LRR)

Global Radar for Autonomous Vehicles Market, Segmentation by Installation Location:

Forward-Facing Radar

Side-Facing Radar

Rear-Facing Radar

Simultaneous View Radar

Global Radar for Autonomous Vehicles Market, Segmentation by Technical Architecture:

Single-Chip Integrated Radar

Multi-Sensor Fusion Radar

Global Radar for Autonomous Vehicles Market, Segmentation by Application:

L1-L2 Assisted Driving Vehicles

L3-L4 Advanced Automated Driving Vehicles

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L5 Fully Automated Driving Vehicles

Companies Profiled:

Huawei

Desay SV

Huayu Automotive

Sensortech

Cohda Wireless

Chengtai Technology

Navtech Radar

Zhibo Technology

Weifu High-Technology Group

HiRain Technologies

Bosch

AUMOVIO (Continental Automotive)

Valeo

ZF

FORVIA HELLA

Denso

Aptiv

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Magna International

Hitachi Astemo

Hyundai Mobis

HL Klemove

Ficosa

Marelli

smartmicro

Uhnder

Arbe Robotics

Wistron NeWeb Corporation (WNC)

Key Questions Answered:

1. How big is the global Radar for Autonomous Vehicles market?
2. What is the demand of the global Radar for Autonomous Vehicles market?
3. What is the year over year growth of the global Radar for Autonomous Vehicles market?
4. What is the production and production value of the global Radar for Autonomous Vehicles market?
5. Who are the key producers in the global Radar for Autonomous Vehicles market?
6. What are the growth factors driving the market demand?

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