

Global Automotive Radar Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Radar Sensors market size is expected to reach \$ 1218 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Radar Sensors production reached approximately 11,300 k units with an average global market price of around US\$ 65 per unit, and a gross profit margin of approximately 10%-30%. Automotive Radar Sensors are RF sensing modules that transmit and receive millimeter-wave signals to detect objects' distance, relative speed, and angle for driver assistance and automated driving. A radar sensor integrates antennas, RF front-end, transceiver ICs, signal processing, and embedded software to generate target lists under rain, fog, and low-light conditions. Key requirements include detection range and resolution, interference mitigation, functional safety, electromagnetic compatibility, and stable performance across temperature, vibration, and moisture exposure.

The industrial chain of Automotive Radar Sensors includes upstream elements such as RF semiconductors, antenna-in-package or PCB antennas, substrates, passive components, housings, connectors, EMC shielding materials, and calibration fixtures. Midstream covers module design, SMT assembly, RF testing, calibration, software flashing, end-of-line validation, and functional safety documentation. Downstream applications include passenger vehicles and commercial vehicles, supplying ADAS functions like ACC, AEB, BSD, and automated parking. Services include integration support, vehicle-level tuning, diagnostics, warranty handling, and compliance testing to ensure reliable perception performance across different platforms.

The Automotive Radar Sensor market is expanding as ADAS penetration rises and

more vehicles adopt multi-radar architectures for 360-degree coverage. Demand is driven by regulatory and consumer focus on safety features such as AEB and blind-spot monitoring, as well as higher automation levels that require redundant sensing. Technology trends include wider adoption of 77GHz imaging radar, higher channel count transceivers, better angular resolution, and improved interference mitigation as radar density increases on roads. Integration is shifting toward compact antenna-in-package designs and more software-defined signal processing to enable feature upgrades. Cost pressure remains strong, pushing suppliers to improve yield, automate calibration, and integrate more functions into fewer chips. Constraints include EMC complexity, cross-vehicle interference, and functional safety qualification workload. Overall, growth is steady, with value concentrating in high-resolution, low-false-alarm performance and scalable manufacturing and calibration capabilities.

This report studies the global Automotive Radar Sensors production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Radar Sensors total production and demand, 2021-2032, (K Units)

Global Automotive Radar Sensors total production value, 2021-2032, (USD Million)

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

Global Automotive Radar Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Radar Sensors domestic production, consumption, key domestic manufacturers and share

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

Global Automotive Radar Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Radar Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Radar Sensors 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, Denso, FORVIA HELLA, Baumer, NXP, Infineon, WNC, Smartmicro, IFM, 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 Automotive Radar Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Automotive Radar Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Radar Sensors Market, Segmentation by Type:

Front Radar Sensor

Corner Radar Sensor

Others

Global Automotive Radar Sensors Market, Segmentation by Frequency Band:

24GHz

60GHz

77GHz

Others

Global Automotive Radar Sensors Market, Segmentation by Range:

Short-Range Radar (SRR)

Mid-Range Radar (MRR)

Long-Range Radar (LRR)

Global Automotive Radar Sensors Market, Segmentation by Application:

Assisted Driving

Automated Driving

Companies Profiled:

Bosch

Continental

Denso

FORVIA HELLA

Baumer

NXP

Infineon

WNC

Smartmicro

IFM

Texas Instruments

SICK AG

Pepperl+Fuchs

Leuze Electronic

Inxpect

CONTROLWAY

InnoSenT

Banner Engineering Corp

Aumovio

Key Questions Answered:

1. How big is the global Automotive Radar Sensors market?
2. What is the demand of the global Automotive Radar Sensors market?

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

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