

Global Millimeter-wave Radar Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Millimeter-wave Radar Sensor market size is expected to reach \$ 7467 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

Millimeter-wave Radar Sensor is evolving from a single automotive safety component into a cross-domain sensing platform. From a commercial perspective, the key differentiator is no longer basic detection capability alone, but the ability to convert RF performance into reliable, monetizable outputs such as range, velocity, angle, occupancy, presence, micro-motion, and trajectory under real operating conditions. As a result, competition is shifting away from isolated chip specifications toward broader platform capability, including transceivers, antenna packaging, software stacks, reference designs, safety workflows, and mass-production support.

Frequency structure has become the clearest lens through which the industry should be read. In 2025, 76-81GHz Millimeter-wave Radar Sensor shipments reached 132,521.8 k pcs, accounting for 64.4% of total volume and 67.5% of total revenue, confirming its position as the dominant commercial platform for automotive exterior ADAS and higher-performance radar architectures. The 60GHz segment shipped 49,335.8 k pcs, representing 24.0% of volume, and its strategic role is larger than its present size suggests because it enables scalable deployment in cabin sensing, industrial automation, robotics, and smart-space sensing. By contrast, 24GHz shipped 18,220.6 k pcs, or 8.9% of total volume, and is increasingly associated with carry-over programs, lower-cost short-range use cases, and residual legacy demand.

Applications remain automotive-led, but the second growth curve is now clearly visible. Automotive exterior ADAS accounted for 107,226.6 k pcs in 2025, or 52.1% of total

shipments, and 55.6% of total revenue, making it the principal foundation of the Millimeter-wave Radar Sensor business. However, cabin sensing reached 24,616.5 k pcs, industrial, infrastructure and robotics reached 39,300.0 k pcs, and consumer electronics and smart home reached 21,182.1 k pcs, together signaling that the market is broadening beyond vehicle safety hardware. In business terms, exterior ADAS secures baseline scale, cabin sensing lifts vehicle content value, and industrial plus smart-space applications determine whether Millimeter-wave Radar Sensor can become a broader sensing platform rather than remaining a narrow automotive component category.

Regional dynamics are forming a distinctly multi-center competitive map. In 2025, North America, Europe, China, and Japan recorded output of 49,160.4, 61,034.1, 46,326.1, and 26,027.8 k pcs respectively, making them the four principal anchors of the global Millimeter-wave Radar Sensor industry. Europe remains strong in high-end automotive electronics and system definition, North America benefits from deep semiconductor platform capability and industrial ecosystems, China leads in cost efficiency, iteration speed, local customer coverage, and manufacturing scale, while Japan retains advantages in reliability, low-power architectures, cabin applications, and module-oriented execution. The result is not a single unified global market, but a market with different regional centers shaping different parts of the value chain.

Supplier competition is moving from parameter leadership to platform leadership. Infineon, NXP, and Texas Instruments represent global platform-scale suppliers with broad customer reach across automotive and industrial markets. Asahi Kasei Microdevices (AKM), Socionext, and Acconeer are more differentiated in 60GHz, low-power sensing, and use-case-focused execution. China-based players including Calterah, Possumic Technology, AirTouch (Shanghai) Intelligent Technology, Iclegend Micro, SGR Semiconductors, and ifLabel are accelerating adoption across automotive, industrial, and smart-space scenarios. For industry specialists, the real question is no longer who has a short-term specification edge, but who can build a closed loop from RF front-end and SoC through antenna packaging, middleware, qualification, customer customization, and scalable mass-production support.

This report studies the global Millimeter-wave Radar Sensor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Millimeter-wave Radar Sensor total production and demand, 2021-2032, (K Pcs)

Global Millimeter-wave Radar Sensor total production value, 2021-2032, (USD Million)

Global Millimeter-wave Radar Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Millimeter-wave Radar Sensor consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Millimeter-wave Radar Sensor domestic production, consumption, key domestic manufacturers and share

Global Millimeter-wave Radar Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Millimeter-wave Radar Sensor production by Frequency, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Millimeter-wave Radar Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Millimeter-wave 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 Infineon, NXP, Texas Instruments, Asahi Kasei Microdevices (AKM), Socionext, Acconeer, KaiKuTeK (JMicron Technology), Calterah, Possumic Technology, AirTouch (Shanghai) Intelligent Technology, 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 Millimeter-wave Radar Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Unit) by manufacturer, by Frequency, 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 Millimeter-wave Radar Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Millimeter-wave Radar Sensor Market, Segmentation by Frequency:

24GHz

60GHz

76?81GHz

Others

Global Millimeter-wave Radar Sensor Market, Segmentation by Packaging:

Single-chip

SoC

Global Millimeter-wave Radar Sensor Market, Segmentation by Functional Range:

Long-range

Mid-range

Short-range

Global Millimeter-wave Radar Sensor Market, Segmentation by Dimension:

2D

3D

4D

Global Millimeter-wave Radar Sensor Market, Segmentation by Application:

Automotive ? Exterior ADAS

Automotive ? In-cabin Sensing

Industrial/Infrastructure/Robotics

Consumer & Smart Home

Others

Companies Profiled:

Infineon

NXP

Texas Instruments

Asahi Kasei Microdevices (AKM)

Socionext

Acconeer

KaiKuTeK (JMicron Technology)

Calterah

Possumic Technology

AirTouch (Shanghai) Intelligent Technology

Iclegend Micro

SGR Semiconductors

ifLabel

Key Questions Answered:

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

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