

Global mmWave Radar ICs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global mmWave Radar ICs market size was valued at US\$ 2768 million in 2025 and is forecast to a readjusted size of US\$ 7467 million by 2032 with a CAGR of 13.5% during review period.

Millimeter-wave Radar ICs are the core semiconductor devices in radar sensing systems, integrating RF transceivers, analog front ends, ADCs, digital processing, interface control and selected safety-monitoring functions into a chip or chipset. Most Millimeter-wave Radar ICs use FMCW architecture to estimate target range, velocity, azimuth and elevation from reflected electromagnetic waves. Automotive exterior sensing is concentrated in the 76-81GHz band, while in-cabin sensing, industrial sensing, consumer electronics and smart-space applications commonly use 60GHz; 24GHz is now more associated with legacy platforms and selected low-cost applications. Key parameters include frequency band, bandwidth, Tx/Rx channel count, detection range, angular resolution, power consumption, operating temperature, functional safety and automotive qualification. Typical bandwidth is 4-5GHz, enabling centimeter-level range resolution. Entry and mainstream automotive designs often use 3T4R or 4T4R configurations, while high-resolution imaging radar is moving toward 8T8R, 24T24R, 32T32R and larger virtual arrays. Long-range front radar typically covers 200-300 meters, and premium high-resolution platforms have advanced toward the 400-meter class. Automotive-grade ICs usually target -40°C to 125/140°C operation, with more integrated devices pushing junction-temperature and long-term reliability margins higher.

The technology roadmap of Millimeter-wave Radar ICs is shifting from basic ranging and velocity sensing to high-resolution spatial perception and edge computation. Earlier

designs relied on RF front ends paired with external processors, while later generations moved toward RFCMOS radar SoCs integrating PLLs, transmitters, receivers, baseband, ADCs, DSPs, MCUs, radar accelerators and in-vehicle interfaces into a single device. Premium platforms are now entering the imaging-radar phase, using MIMO, cascade expansion, on-chip calibration, low phase-noise design, interference mitigation, consistent RF packaging and dedicated radar processors to generate dense point clouds. Packaging and antenna integration have become key differentiation points for Millimeter-wave Radar ICs, as antenna-in-package, antenna-on-chip, line-on-package and waveguide interfaces reduce high-frequency loss, improve repeatability and shrink radar modules. On the software side, processing is moving from FFT, CFAR, angle-of-arrival estimation and object tracking toward raw-signal AI, semantic point clouds, occupancy grids, object classification and multi-sensor fusion.

Demand for Millimeter-wave Radar ICs is led by automotive production programs and is expanding into industrial equipment, robotics, smart buildings, security and health-related monitoring. Automotive use cases include front radar, corner radar, rear radar, parking radar, door-zone radar, in-cabin vital-sign sensing and child-presence detection. Demand is driven by automatic emergency braking, adaptive cruise control, blind-spot detection, lane-change assist, highway pilot, automated parking and higher-level automated-driving functions. Non-automotive applications value privacy, all-weather operation, low-light robustness and micro-motion detection, covering presence sensing, smart lighting, fall detection, industrial collision avoidance, level measurement, traffic monitoring, drones and mobile-robot obstacle avoidance. The upstream supply chain includes RFCMOS and SiGe processes, foundries, OSAT, low-loss substrates, high-frequency PCBs, antenna materials, EDA/IP and RF test equipment. The midstream consists of Millimeter-wave Radar ICs, radar modules, embedded algorithms and development toolchains, while downstream customers include Tier-1 suppliers, automakers, industrial equipment companies, smart-home vendors and IoT device makers.

The Millimeter-wave Radar IC industry is currently at the intersection of automotive scale-up, imaging-radar upgrade and category expansion beyond vehicles. Leading global suppliers continue to iterate 76-81GHz automotive radar SoCs, 77GHz radar transceivers, radar processors and 60GHz low-power sensing ICs, with product focus shifting from radar function availability to cascadability, imaging capability, mass-production readiness and safety qualification. In 2026, an 8T8R highly integrated automotive radar transceiver entered the next generation of high-resolution platforms, supporting scalability from 8T8R to 32T32R. High-resolution front radar programs have adopted architectures of up to 32 transmit and 32 receive channels, with detection

moving toward the 400-meter class and customer production planned for mid-2028. In China, Millimeter-wave Radar IC vendors are accelerating automotive-grade qualification, production-vehicle adoption and capital-market preparation. One domestic supplier has exceeded 30 million cumulative automotive IC shipments, completed an over-RMB1 billion Series E financing round in 2026 and entered IPO tutoring, reflecting stronger capital allocation toward automotive-grade radar IC scale delivery, product iteration and domestic supply-chain certainty.

The growth logic of Millimeter-wave Radar ICs is moving from higher radar fitment per vehicle to higher sensing value per radar, higher chip integration and broader application boundaries. In automotive, high-resolution 4D imaging radar is migrating from premium models toward mainstream vehicle platforms. Vehicle configurations are expanding from one front long-range radar plus four corner radars toward in-cabin sensing, door-zone sensing, short-range parking perception and denser 360-degree coverage. Premium platforms will emphasize fusion with cameras, lidar and centralized compute, while mainstream platforms will focus on cost, power, form factor, functional safety and development efficiency. Technically, Millimeter-wave Radar ICs will continue to evolve toward higher channel counts, on-chip calibration, lower phase noise, stronger interference mitigation, on-chip AI acceleration, cybersecurity, OTA configuration and automotive safety alignment. Non-automotive growth will come from 60GHz presence sensing, elderly care, smart buildings, industrial safety and robotics, where customers are more fragmented, algorithms are more scenario-specific, certification cycles are relatively shorter and product iterations are faster. Competitive advantage is no longer defined by RF specifications alone; it is increasingly defined by the integrated capability of Millimeter-wave Radar ICs, packaging, antennas, algorithms, toolchains and automotive-grade mass production.

This report is a detailed and comprehensive analysis for global mmWave Radar ICs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Frequency and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global mmWave Radar ICs market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Unit), 2021-2032

Global mmWave Radar ICs market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Unit), 2021-2032

Global mmWave Radar ICs market size and forecasts, by Frequency and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Unit), 2021-2032

Global mmWave Radar ICs market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for mmWave Radar ICs

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global mmWave Radar ICs market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

mmWave Radar ICs market is split by Frequency and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Frequency, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Frequency

24GHz

60GHz

76?81GHz

Others

Market segment by Packaging

Single-chip

SoC

Market segment by Functional Range

Long-range

Mid-range

Short-range

Market segment by Dimension

2D

3D

4D

Market segment by Application

Automotive ? Exterior ADAS

Automotive ? In-cabin Sensing

Industrial/Infrastructure/Robotics

Consumer & Smart Home

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe mmWave Radar ICs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of mmWave Radar ICs, with price, sales quantity, revenue, and global market share of mmWave Radar ICs from 2021 to 2026.

Chapter 3, the mmWave Radar ICs competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the mmWave Radar ICs breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Frequency and by Application, with sales market share and growth rate by Frequency, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and mmWave Radar ICs market forecast, by regions, by Frequency, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of mmWave Radar ICs.

Chapter 14 and 15, to describe mmWave Radar ICs sales channel, distributors, customers, research findings and conclusion.

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