

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

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Abstracts

The global mmWave Radar ICs 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 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 studies the global mmWave Radar ICs production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global mmWave Radar ICs total production and demand, 2021-2032, (K Pcs)

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

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

Global mmWave Radar ICs consumption by region & country, CAGR, 2021-2032 & (K Pcs)

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

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

Global mmWave Radar ICs production by Frequency, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global mmWave Radar ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global mmWave Radar ICs 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 mmWave Radar ICs 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 mmWave Radar ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global mmWave Radar ICs Market, Segmentation by Frequency:

24GHz

60GHz

76?81GHz

Others

Global mmWave Radar ICs Market, Segmentation by Packaging:

Single-chip

SoC

Global mmWave Radar ICs Market, Segmentation by Functional Range:

Long-range

Mid-range

Short-range

Global mmWave Radar ICs Market, Segmentation by Dimension:

2D

3D

4D

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

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