

Global mmWave Radar Chip 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 Chip market size was valued at US\$ 1141 million in 2025 and is forecast to a readjusted size of US\$ 1690 million by 2032 with a CAGR of 6.0% during review period.

Millimeter wave radar chip refers to a highly integrated RF and mixed signal chip designed for radar systems, operating in the millimeter wave frequency band. It typically covers frequency bands such as 24GHz, 60GHz, and 76GHz. The chip usually integrates key modules such as RF front-end, phase-locked loop and frequency synthesis, baseband and filtering, and analog-to-digital converter for transmitting and receiving ends. It is used to obtain distance, velocity, and angle information for FMCW and other radar systems. In 2025, global mmWave Radar Chip production reached approximately 189.64 M Units, with an average global market price of around US\$ 5.85 per Unit.

The demand for millimeter wave radar chips is highly concentrated on in vehicle ADAS and autonomous driving radar. It is estimated that the shipment of in vehicle radar will exceed 140 million units by 2024, and the number of single vehicle radars is still increasing, directly driving the scaling up of millimeter wave radar SoCs and transceivers. The technology and supply and demand structure are upgrading synchronously. On the one hand, driven by spectrum and regulations, the new design of short distance 24GHz for vehicles is gradually being phased out, and the mainstream is fully shifting towards the 77GHz and 79GHz bands and utilizing wider bandwidth to improve resolution. On the other hand, the industry is accelerating from traditional multi chip architectures to single-chip highly integrated radar SoCs and higher channel count platforms. At the same time, high-resolution and imaging radars are penetrating from L2

to L4 scenarios, driving the demand for collaborative design of higher performance computing power, stronger anti-interference capabilities, and more complex antenna arrays. The focus of competition is shifting from simple RF indicators to system level link budgets, algorithm stack adaptation, vehicle reliability, and cost reduction speed.

This report is a detailed and comprehensive analysis for global mmWave Radar Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Chip market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

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

Global mmWave Radar Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global mmWave Radar Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), 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 Chip

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 Chip 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, TI, STMicroelectronics, indie, Nanjing Maikeke Microelectronics Technology, Gatlin Microelectronics Technology, CETC 38th Research Institute, Skyrelay (beijing)Technology, Hangzhou Andar Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

mmWave Radar Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

79 GHz

77 GHz

60 GHz

24 GHz

Market segment by Platform Classification

Vehicle Mounted Millimeter Wave Radar

Shipborne Millimeter Wave Radar

Airborne Millimeter Wave Radar

Other

Market segment by Radar Ranging

Remote Radar (LRR)

Medium Range Radar (MRR)

Short Range Radar (SRR)

Market segment by Application

Automotive

Drone

Robot

Other

Major players covered

Infineon

NXP

TI

STMicroelectronics

indie

Nanjing Maikeke Microelectronics Technology

Gatlin Microelectronics Technology

CETC 38th Research Institute

Skyrelay (beijing)Technology

Hangzhou Andar Technologies

SGR Semiconductors

Zhuhai Microcreative Technology

Ningbo Gekong Intelligent Technology

Stormicro

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 Chip product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the mmWave Radar Chip competitive situation, sales quantity, revenue, and

global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the mmWave Radar Chip 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 Type and by Application, with sales market share and growth rate by Type, 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 Chip market forecast, by regions, by Type, 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 Chip.

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

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