

Global MmWave Sensors Modules 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 Sensors Modules market size was valued at US\$ 1261 million in 2025 and is forecast to a readjusted size of US\$ 1980 million by 2032 with a CAGR of 6.6% during review period.

A millimeter-wave sensor module is a highly integrated sensor chip based on frequency modulated continuous wave (FMCW) millimeter-wave radar technology. It integrates transmitting/receiving antennas, circuitry, signal processors, and MCUs into a single chip, enabling precise measurement of the distance, velocity, and angle information of targets. These sensors typically operate in millimeter-wave frequency bands such as 24GHz, 60GHz, and 77GHz, featuring high resolution, low power consumption, and small size. They can be used in automotive driver assistance, industrial automation, smart homes, security monitoring, and human detection. Single-chip millimeter-wave sensors reduce system complexity and cost through integrated design, while improving reliability and performance in complex environments. In 2025, the production volume of millimeter-wave sensor modules is estimated at approximately 125.16 million units, with an average price of approximately \$12.99-\$28.89 per unit and a gross margin of approximately 30%-45%.

With the sweeping wave of intelligentization, single-chip millimeter-wave sensors are rapidly being adopted as key high-precision environmental perception devices in Advanced Driver Assistance Systems (ADAS) for automobiles, while demand continues to rise in smart manufacturing, smart security, unmanned systems, and smart homes. Millimeter-wave sensing technology enables non-contact detection and high-resolution imaging in complex environments, providing fundamental perception capabilities for autonomous driving, robot navigation, and human-machine interaction. Furthermore,

chip-level integration and advanced manufacturing processes are driving a continuous reduction in the cost of single-chip millimeter-wave sensors, providing a favorable economic foundation for large-scale applications. Despite the huge market potential, the industry still faces challenges such as cost pressures, spectrum resource limitations, supply chain bottlenecks, and regional differences in technical standards. The design and manufacturing of high-frequency millimeter-wave chips have extremely high requirements for processes and materials, and the development cycle for small-batch samples is long and requires significant investment. At the same time, different application scenarios place higher demands on sensing accuracy, anti-interference capabilities, and integration capabilities, posing a rigorous test to the technical strength and product innovation capabilities of chip suppliers. The automotive industry is one of the most important downstream markets for single-chip millimeter-wave sensors, especially with the continued growth in demand for high-precision radar in ADAS functions such as Automatic Emergency Braking (AEB), blind spot detection, and Adaptive Cruise Control (ACC). Furthermore, with the advancement of Industry 4.0 and smart manufacturing, the demand for high-resolution, low-latency sensors in factory automation, robot obstacle avoidance, and safety monitoring is rapidly expanding. In smart homes and building automation, millimeter-wave sensors are also showing a growing trend in applications such as human presence detection and security monitoring, bringing broader application opportunities to the entire market.

This report is a detailed and comprehensive analysis for global MmWave Sensors Modules 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 Sensors Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

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

Global MmWave Sensors Modules market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global MmWave Sensors Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 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 Sensors Modules
- 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 Sensors Modules 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 Texas Instruments, Infineon, NXP, Socionext, Acconeer, LintechTT, Vayyar Imaging, Calterah, AirTouch (Shanghai) Intelligent Technology Co., Ltd., SGR Semiconductors, etc.

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

Market Segmentation

MmWave Sensors Modules 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

24?GHz

60?GHz

77/79 GHz

Others

Market segment by Power

Low Power

Medium Power

High Performance

Market segment by Channel

OEM Direct

Distributor

Market segment by Performance

Automotive Millimeter-wave Radar Sensors

Industrial Millimeter-wave Radar Sensors

Market segment by Application

Intelligent Internet of Things (IIoT)

Automotive ADAS

Smart Manufacturing

Consumer Electronics

Others

Major players covered

Texas Instruments

Infineon

NXP

Socionext

Acconeer

LintechTT

Vayyar Imaging

Calterah

AirTouch (Shanghai) Intelligent Technology Co., Ltd.

SGR Semiconductors

Hangzhou Shore Technology Co., Ltd

Possumic Technology Co., Ltd

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 Sensors Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MmWave Sensors Modules, with price, sales quantity, revenue, and global market share of MmWave Sensors Modules from 2021 to 2026.

Chapter 3, the MmWave Sensors Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MmWave Sensors Modules 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 Sensors Modules 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 Sensors Modules.

Chapter 14 and 15, to describe MmWave Sensors Modules sales channel, distributors, customers, research findings and conclusion.

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