

Global 60 GHz mmWave Radar Sensors and 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 60 GHz mmWave Radar Sensors and Modules market size was valued at US\$ 319 million in 2025 and is forecast to a readjusted size of US\$ 1273 million by 2032 with a CAGR of 20.6% during review period.

60 GHz mmWave radar sensors and modules refer to radar ICs, radar SoCs, antenna-in-package devices, RF front ends, OEM sensor modules and application-ready radar modules operating mainly around the 57–64 GHz, 60–64 GHz or regionally authorised 57–71 GHz bands. These products use millimetre-wave electromagnetic signals, typically through FMCW, Doppler, pulsed coherent radar or MIMO radar architectures, to measure range, velocity, angle, presence, occupancy, gesture, respiration, heart-rate micro-motion, fall events, people flow or object movement without physical contact.

The market covered in this report focuses on hardware components and OEM modules used as core sensing units in smart home devices, building automation systems, in-cabin automotive sensing, healthcare and eldercare monitoring, industrial safety systems, robotics and level/ranging applications. Typical product forms include radar SoCs, radar-on-chip devices, AiP/AoPCB modules, presence detection modules, vital-sign radar modules, people-counting modules, in-cabin sensing modules and industrial ranging or safety radar sensors. The defining value proposition is the ability to provide privacy-preserving, lighting-independent and micro-motion-sensitive perception where cameras, PIR sensors, ultrasonic sensors or basic motion detectors are technically constrained.

Indicative pricing ranges from several US dollars to several tens of US dollars for radar

ICs and SoCs, roughly US\$10–80 for general OEM modules, and higher levels for certified industrial or safety-grade sensors.

Based on our research, the 60 GHz mmWave radar sensor market should be understood as a hardware-enabling layer for short-range spatial perception, rather than as a narrow sub-market of simple motion sensors. The core of the industry lies in radar ICs, radar SoCs, radar-on-chip devices, AiP or AoPCB modules, OEM radar modules and application-specific radar sensors used for presence detection, range measurement, people counting, vital-sign monitoring, gesture recognition, in-cabin sensing and industrial safety. Compared with 24 GHz radar, 60 GHz solutions offer a smaller antenna footprint and higher spatial resolution. Compared with cameras, they provide a more privacy-preserving and lighting-independent sensing method. For this reason, the market boundary adopted in this report is deliberately narrow and focuses on 60 GHz radar hardware sold as chips, SoCs, RF front ends, modules or sensor units, rather than the full value of finished smart home devices, healthcare platforms or vehicle systems.

From the supply side, the industry has developed into a multi-layered global ecosystem. Large semiconductor vendors and specialised radar chip companies lead the core IC and SoC layer, while Japanese, Taiwanese and European module suppliers provide OEM modules, micro-modules and industrial-grade radar sensors. China-based suppliers are becoming increasingly visible in low-cost presence detection modules, vital-sign modules, IoT modules and smart-building use cases. The competitive structure is not yet fully consolidated, because requirements differ materially across applications. Automotive in-cabin sensing requires reliability, low false-alarm rates and regulatory or safety alignment; healthcare monitoring requires micro-motion sensitivity and stable algorithms; industrial safety requires robustness and certification; and smart home applications require low cost, compact size and easy integration. These differences create room for both global leaders and specialised regional suppliers.

Demand growth is expected to come from several parallel application clusters rather than a single end market. In automotive, child presence detection, seat occupancy, occupant classification and vital-sign sensing are becoming important high-value applications. In smart buildings and consumer IoT, human presence detection, people counting, energy-saving control and privacy-friendly room sensing are driving wider module adoption. In healthcare and eldercare, radar-based fall detection and non-contact respiration and heart-rate monitoring are gaining attention. In industrial applications, distance measurement, collision avoidance, level sensing and safety-area monitoring remain important niches. Regulatory support for 57–71 GHz unlicensed

radar sensing and the inclusion of child presence detection in vehicle safety assessment frameworks provide additional structural support for the industry's medium-term growth.

This report is a detailed and comprehensive analysis for global 60 GHz mmWave Radar Sensors and Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Form 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 60 GHz mmWave Radar Sensors and Modules market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 60 GHz mmWave Radar Sensors and Modules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 60 GHz mmWave Radar Sensors and Modules market size and forecasts, by Product Form and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 60 GHz mmWave Radar Sensors and Modules market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 60 GHz mmWave Radar Sensors and 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 60 GHz mmWave Radar Sensors and 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 Infineon Technologies AG, Texas Instruments Incorporated, Acconeer AB, Socionext Inc., Vayyar Imaging Ltd., Calterah Semiconductor Technology Co., Ltd., Possumic, Murata Manufacturing Co., Ltd., Nisshinbo Micro Devices Inc., Jorjin Technologies Inc., etc.

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

Market Segmentation

60 GHz mmWave Radar Sensors and Modules market is split by Product Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Form, 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 Product Form

Radar IC / SoC

AiP / AoPCB Module

OEM Radar Sensor Module

Certified / Application-specific Radar Sensor

Other

Market segment by Radar Technology

FMCW Radar

MIMO / 4D Radar

Pulsed Coherent Radar

Doppler Radar

Other

Market segment by Integration Level

Component-level

Module-level

Sensor-unit Level

System-level

Market segment by Application

Smart Home and Building Automation

Automotive In-cabin Sensing

Healthcare and Eldercare Monitoring

Industrial Safety and Ranging

Consumer Electronics and Gesture

Other

Major players covered

Infineon Technologies AG

Texas Instruments Incorporated

Acconeer AB

Socionext Inc.

Vayyar Imaging Ltd.

Calterah Semiconductor Technology Co., Ltd.

Possumic

Murata Manufacturing Co., Ltd.

Nisshinbo Micro Devices Inc.

Jorjin Technologies Inc.

RichWave Technology Corp.

indie Semiconductor

NOVELIC d.o.o.

RFbeam Microwave GmbH

InnoSenT GmbH

Inxpect S.p.A.

Shenzhen Hi-Link Electronic Co., Ltd.

Seeed Studio

Ai-Thinker Co., Ltd.

Merrytek 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 60 GHz mmWave Radar Sensors and Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 60 GHz mmWave Radar Sensors and Modules, with price, sales quantity, revenue, and global market share of 60 GHz mmWave Radar Sensors and Modules from 2021 to 2026.

Chapter 3, the 60 GHz mmWave Radar Sensors and Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 60 GHz mmWave Radar Sensors and 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 Product Form and by Application, with sales market share and growth rate by Product Form, 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 60 GHz mmWave Radar Sensors and Modules market forecast, by regions, by Product Form, 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 60 GHz mmWave Radar Sensors and Modules.

Chapter 14 and 15, to describe 60 GHz mmWave Radar Sensors and Modules sales channel, distributors, customers, research findings and conclusion.

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