

Global 60 GHz mmWave Radar Sensors and Modules Market Growth 2026-2032

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Abstracts

The global 60 GHz mmWave Radar Sensors and Modules market size is predicted to grow from US\$ 303 million in 2025 to US\$ 1290 million in 2032; it is expected to grow at a CAGR of 21.9% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "60 GHz mmWave Radar Sensors and Modules Industry Forecast" looks at past sales and reviews total world 60 GHz mmWave Radar Sensors and Modules sales in 2025, providing a comprehensive analysis by region and market sector of projected 60 GHz mmWave Radar Sensors and Modules sales for 2026 through 2032. With 60 GHz mmWave Radar Sensors and Modules sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 60 GHz mmWave Radar Sensors and Modules industry.

This Insight Report provides a comprehensive analysis of the global 60 GHz mmWave Radar Sensors and Modules landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 60 GHz mmWave Radar Sensors and Modules portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 60 GHz mmWave Radar Sensors and Modules market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 60 GHz mmWave Radar Sensors and Modules and breaks down the forecast by Product Form, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 60 GHz mmWave Radar Sensors and Modules.

This report presents a comprehensive overview, market shares, and growth opportunities of 60 GHz mmWave Radar Sensors and Modules market by product type, application, key manufacturers and key regions and countries.

Segmentation by Product Form:

Radar IC / SoC

AiP / AoPCB Module

OEM Radar Sensor Module

Certified / Application-specific Radar Sensor

Other

Segmentation by Radar Technology:

FMCW Radar

MIMO / 4D Radar

Pulsed Coherent Radar

Doppler Radar

Other

Segmentation by Integration Level:

Component-level

Module-level

Sensor-unit Level

System-level

Segmentation by Application:

Smart Home and Building Automation

Automotive In-cabin Sensing

Healthcare and Eldercare Monitoring

Industrial Safety and Ranging

Consumer Electronics and Gesture

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Inspect S.p.A.

Shenzhen Hi-Link Electronic Co., Ltd.

Seeed Studio

Ai-Thinker Co., Ltd.

Merrytek Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global 60 GHz mmWave Radar Sensors and Modules market?

What factors are driving 60 GHz mmWave Radar Sensors and Modules market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 60 GHz mmWave Radar Sensors and Modules market opportunities vary by end market size?

How does 60 GHz mmWave Radar Sensors and Modules break out by Product Form, by Application?

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