

Global 60 GHz mmWave Radar Sensors and Modules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 60 GHz mmWave Radar Sensors and Modules market size is expected to reach \$ 1273 million by 2032, rising at a market growth of 20.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global 60 GHz mmWave Radar Sensors and Modules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 60 GHz mmWave Radar Sensors and Modules 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 60 GHz mmWave Radar Sensors and Modules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 60 GHz mmWave Radar Sensors and Modules total production and demand, 2021-2032, (K Units)

Global 60 GHz mmWave Radar Sensors and Modules total production value, 2021-2032, (USD Million)

Global 60 GHz mmWave Radar Sensors and Modules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 60 GHz mmWave Radar Sensors and Modules consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 60 GHz mmWave Radar Sensors and Modules domestic production, consumption, key domestic manufacturers and share

Global 60 GHz mmWave Radar Sensors and Modules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 60 GHz mmWave Radar Sensors and Modules production by Product Form, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 60 GHz mmWave Radar Sensors and Modules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 60 GHz mmWave Radar Sensors and Modules 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 60 GHz mmWave Radar Sensors and Modules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Product Form, 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 60 GHz mmWave Radar Sensors and Modules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 60 GHz mmWave Radar Sensors and Modules Market, Segmentation by Product Form:

Radar IC / SoC

AiP / AoPCB Module

OEM Radar Sensor Module

Certified / Application-specific Radar Sensor

Other

Global 60 GHz mmWave Radar Sensors and Modules Market, Segmentation by Radar Technology:

FMCW Radar

MIMO / 4D Radar

Pulsed Coherent Radar

Doppler Radar

Other

Global 60 GHz mmWave Radar Sensors and Modules Market, Segmentation by Integration Level:

Component-level

Module-level

Sensor-unit Level

System-level

Global 60 GHz mmWave Radar Sensors and Modules Market, 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

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global 60 GHz mmWave Radar Sensors and Modules market?
2. What is the demand of the global 60 GHz mmWave Radar Sensors and Modules market?
3. What is the year over year growth of the global 60 GHz mmWave Radar Sensors and Modules market?
4. What is the production and production value of the global 60 GHz mmWave Radar Sensors and Modules market?
5. Who are the key producers in the global 60 GHz mmWave Radar Sensors and Modules market?
6. What are the growth factors driving the market demand?

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