

Global Radar Motion Sensors 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 Radar Motion Sensors market size was valued at US\$ 3293 million in 2025 and is forecast to a readjusted size of US\$ 6139 million by 2032 with a CAGR of 9.3% during review period.

In 2025, the global production capacity of radar motion sensor was approximately 426,666,667 units, global Radar Motion Sensor production reached approximately 320,000,000 units, with an average global market price of around US\$ 10 per unit. The gross profit margin of major companies in the industry is between 30% – 45%. A Radar Motion Sensor is an electronic device that detects movement, presence, and velocity of objects by emitting radio waves and analyzing the reflected signal's characteristics, such as frequency shift and time delay. Unlike passive infrared sensors, it actively transmits signals and can detect through non-metallic materials, providing reliable performance regardless of ambient temperature or lighting conditions. These sensors are widely utilized in applications including security alarms, automatic lighting control, smart home automation, industrial equipment safety, and touchless user interfaces.

The industrial chain of Radar Motion Sensors covers upstream components such as microwave/mmWave RF chips, antennas, signal processing ICs, microcontrollers, and packaging materials. The midstream consists of sensor module manufacturers integrating RF design, digital signal processing algorithms, firmware development, and calibration testing. Downstream applications mainly include smart home security systems, commercial building automation, automotive driver assistance, industrial machine guarding, and consumer electronics. Service providers offer application support, reference design, customization, and system integration.

The market for Radar Motion Sensors is experiencing robust growth, driven by the proliferation of smart home devices, advancements in building automation, and increasing integration in automotive and industrial safety systems. Technological trends are focused on achieving higher detection accuracy and lower power consumption, along with miniaturization and cost reduction enabled by advances in semiconductor integration. The rise of the Internet of Things and demand for contactless interaction solutions further accelerate adoption. While price competition in consumer-grade modules is intense, manufacturers are differentiating through enhanced functionality, such as presence detection and multi-target tracking, and by offering robust development support to penetrate diverse application sectors.

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

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

Global Radar Motion Sensors 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 Radar Motion Sensors

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 Radar Motion Sensors 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, Texas Instruments, NXP Semiconductors, Analog Devices, Pepperl+Fuchs, Turck, Honeywell, OMRON, Murata Manufacturing, Marelli, etc.

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

Market Segmentation

Radar Motion Sensors 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

CW Doppler Radar Motion Sensor

FMCW Radar Motion Sensor

Market segment by Frequency Band

10 GHz X-band Radar Motion Sensor

24 GHz K-band Radar Motion Sensor

60 GHz mmWave Radar Motion Sensor

Market segment by Application

Security Alarm

Automatic Lighting

Smart Home

Industrial Equipment

Major players covered

Infineon Technologies

Texas Instruments

NXP Semiconductors

Analog Devices

Pepperl+Fuchs

Turck

Honeywell

OMRON

Murata Manufacturing

Marelli

Siteco

Getteland Microelectronics

S3 Semi

Ainstein

Seeed Studio

Lierda Science & Technology Group

Merrytek

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

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

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

Chapter 4, the Radar Motion Sensors 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 Radar Motion Sensors 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 Radar Motion Sensors.

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

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