

Global 24GHz mmWave Sensor 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 24GHz mmWave Sensor market size was valued at US\$ 101 million in 2025 and is forecast to a readjusted size of US\$ 171 million by 2032 with a CAGR of 7.9% during review period.

In 2025, global production of 24GHz mmWave sensors reached 2.96 million units, with an average selling price of \$33 per unit. A 24GHz mmWave sensor refers to a short-range radar sensor operating in the approximately 24.0-24.25GHz ISM band or adjacent to the 24GHz band. It typically employs Doppler, FSK, FMCW, and other radar systems, detecting the presence, movement, speed, direction, distance, micro-motions, human presence, vehicle approach, or obstacle avoidance by transmitting and receiving millimeter-wave signals. 24GHz millimeter-wave sensors feature non-contact operation, penetration of certain non-metallic obstructions, resistance to light interference, privacy protection, relatively low cost, and suitability for short-range sensing. They are widely used in smart lighting, human presence detection, security doorbells, automatic doors, smart homes, robotics, industrial speed measurement, traffic monitoring, automotive short-range radar, and elderly care applications. The upstream includes radar SoCs, RF front-ends, antennas, PCBs, MCUs, power management, and high-frequency materials; the midstream consists of 24GHz radar sensor manufacturers; and the downstream connects lighting, building, security, automotive, industrial automation, robotics, and smart home companies. Gross profit margins range from approximately 20% to 40%.

This report is a detailed and comprehensive analysis for global 24GHz mmWave Sensor 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 24GHz mmWave Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 24GHz mmWave Sensor 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 24GHz mmWave Sensor 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 24GHz mmWave Sensor 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 24GHz mmWave Sensor

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 24GHz mmWave Sensor 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, Texas Instruments, InnoSenT, RFbeam Microwave, OmniPreSense, Possumic Technology, SGR Semiconductors, WHST, Seeed Studio, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

24GHz mmWave Sensor 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

Doppler Radar

FSK Radar

FMCW Radar

Pulse Doppler Radar

Market segment by Output Interface

UART

I²C

SPI

CAN

RS485

GPIO

Bluetooth/Wi-Fi Gateway

Market segment by Application

Smart Home

Industrial Speed ??Measurement

Robot

Others

Major players covered

Infineon

Texas Instruments

InnoSenT

RFbeam Microwave

OmniPreSense

Possumic Technology

SGR Semiconductors

WHST

Seeed Studio

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 24GHz mmWave Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 24GHz mmWave Sensor, with price, sales quantity, revenue, and global market share of 24GHz mmWave Sensor from 2021 to 2026.

Chapter 3, the 24GHz mmWave Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 24GHz mmWave Sensor 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 24GHz mmWave Sensor 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 24GHz mmWave Sensor.

Chapter 14 and 15, to describe 24GHz mmWave Sensor sales channel, distributors, customers, research findings and conclusion.

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