

Global 24GHz mmWave Sensor Market Growth 2026-2032

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Abstracts

The global 24GHz mmWave Sensor market size is predicted to grow from US\$ 95.56 million in 2025 to US\$ 167 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 2032.

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%.

United States market for 24GHz mmWave Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 24GHz mmWave Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 24GHz mmWave Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 24GHz mmWave Sensor players cover Infineon, Texas Instruments, InnoSenT, RFbeam Microwave, OmniPreSense, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "24GHz mmWave Sensor Industry Forecast" looks at past sales and reviews total world 24GHz mmWave Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected 24GHz mmWave Sensor sales for 2026 through 2032. With 24GHz mmWave Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 24GHz mmWave Sensor industry.

This Insight Report provides a comprehensive analysis of the global 24GHz mmWave Sensor 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 24GHz mmWave Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 24GHz mmWave Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 24GHz mmWave Sensor and breaks down the forecast by Type, 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 24GHz mmWave Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of 24GHz mmWave Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Doppler Radar

FSK Radar

FMCW Radar

Pulse Doppler Radar

Segmentation by Output Interface:

UART

I²C

SPI

CAN

RS485

GPIO

Bluetooth/Wi-Fi Gateway

Segmentation by Application:

Smart Home

Industrial Speed Measurement

Robot

Others

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

Texas Instruments

InnoSenT

RFbeam Microwave

OmniPreSense

Possumic Technology

SGR Semiconductors

WHST

Seeed Studio

Key Questions Addressed in this Report

What is the 10-year outlook for the global 24GHz mmWave Sensor market?

What factors are driving 24GHz mmWave Sensor market growth, globally and by region?

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

How do 24GHz mmWave Sensor market opportunities vary by end market size?

How does 24GHz mmWave Sensor break out by Type, by Application?

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