

Global 24GHz mmWave Radar Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 24GHz mmWave Radar Sensor market size is expected to reach \$ 171 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

In 2025, global production of 24GHz mmWave radar sensors reached 2.96 million units, with an average selling price of US\$33 per unit. A 24GHz mmWave radar 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 sector includes radar SoCs, RF front-ends, antennas, PCBs, MCUs, power management, and high-frequency materials. The midstream sector comprises 24GHz radar sensor manufacturers, while the downstream sector connects companies in lighting, building automation, security, automotive, industrial automation, robotics, and smart home industries. Gross profit margins range from approximately 20% to 40%.

This report studies the global 24GHz mmWave Radar Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 24GHz

mmWave Radar Sensor 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 24GHz mmWave Radar Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 24GHz mmWave Radar Sensor total production and demand, 2021-2032, (K Units)

Global 24GHz mmWave Radar Sensor total production value, 2021-2032, (USD Million)

Global 24GHz mmWave Radar Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 24GHz mmWave Radar Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 24GHz mmWave Radar Sensor domestic production, consumption, key domestic manufacturers and share

Global 24GHz mmWave Radar Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 24GHz mmWave Radar Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 24GHz mmWave Radar Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 24GHz mmWave Radar Sensor 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 24GHz mmWave Radar Sensor 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 Type, 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 24GHz mmWave Radar Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 24GHz mmWave Radar Sensor Market, Segmentation by Type:

Doppler Radar

FSK Radar

FMCW Radar

Pulse Doppler Radar

Global 24GHz mmWave Radar Sensor Market, Segmentation by Output Interface:

UART

I²C

SPI

CAN

RS485

GPIO

Bluetooth/Wi-Fi Gateway

Global 24GHz mmWave Radar Sensor Market, Segmentation by Application:

Smart Home

Industrial Speed ??Measurement

Robot

Others

Companies Profiled:

Infineon

Texas Instruments

InnoSenT

RFbeam Microwave

OmniPreSense

Possumic Technology

SGR Semiconductors

WHST

Seed Studio

Key Questions Answered:

1. How big is the global 24GHz mmWave Radar Sensor market?
2. What is the demand of the global 24GHz mmWave Radar Sensor market?
3. What is the year over year growth of the global 24GHz mmWave Radar Sensor market?
4. What is the production and production value of the global 24GHz mmWave Radar Sensor market?
5. Who are the key producers in the global 24GHz mmWave Radar Sensor market?
6. What are the growth factors driving the market demand?

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