

# Global FMCW mmWave Sensor Market Growth 2026-2032

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## Abstracts

The global FMCW mmWave Sensor market size is predicted to grow from US\$ 1199 million in 2025 to US\$ 1927 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

FMCW (Frequency Modulated Continuous Wave) millimeter-wave sensors utilize frequency-modulated continuous wave technology, primarily used to measure parameters such as distance, velocity, and angle of target objects. Their working principle involves emitting a millimeter-wave signal with a continuously changing frequency and receiving the signal reflected from the target object. The position and velocity of the object are calculated based on the frequency offset (Doppler effect) and the signal propagation time. FMCW millimeter-wave sensors are widely used in autonomous driving, traffic monitoring, industrial automation, and security monitoring. Compared to traditional pulse radar sensors, FMCW millimeter-wave sensors offer higher accuracy, smaller size, and lower power consumption. They can simultaneously provide distance and velocity information for target objects, making them indispensable in many scenarios requiring high-precision sensing and real-time response. FMCW millimeter-wave sensors effectively cope with interference in complex environments and have strong noise immunity. In 2025, the production volume of FMCW mmWave sensors is estimated at approximately 125.16 million units, with an average price of approximately \$12.99-\$28.89 per unit and a gross margin of approximately 30%-45%.

With the sweeping wave of intelligentization, single-chip millimeter-wave sensors are rapidly being adopted as key high-precision environmental perception devices in Advanced Driver Assistance Systems (ADAS) for automobiles, while demand continues to rise in smart manufacturing, smart security, unmanned systems, and smart homes. Millimeter-wave sensing technology enables non-contact detection and high-resolution

imaging in complex environments, providing fundamental perception capabilities for autonomous driving, robot navigation, and human-machine interaction. Furthermore, chip-level integration and advanced manufacturing processes are driving a continuous reduction in the cost of single-chip millimeter-wave sensors, providing a favorable economic foundation for large-scale applications. Despite the huge market potential, the industry still faces challenges such as cost pressures, spectrum resource limitations, supply chain bottlenecks, and regional differences in technical standards. The design and manufacturing of high-frequency millimeter-wave chips have extremely high requirements for processes and materials, and the development cycle for small-batch samples is long and requires significant investment. At the same time, different application scenarios place higher demands on sensing accuracy, anti-interference capabilities, and integration capabilities, posing a rigorous test to the technical strength and product innovation capabilities of chip suppliers. The automotive industry is one of the most important downstream markets for single-chip millimeter-wave sensors, especially with the continued growth in demand for high-precision radar in ADAS functions such as Automatic Emergency Braking (AEB), blind spot detection, and Adaptive Cruise Control (ACC). Furthermore, with the advancement of Industry 4.0 and smart manufacturing, the demand for high-resolution, low-latency sensors in factory automation, robot obstacle avoidance, and safety monitoring is rapidly expanding. In smart homes and building automation, millimeter-wave sensors are also showing a growing trend in applications such as human presence detection and security monitoring, bringing broader application opportunities to the entire market.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for FMCW 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 FMCW mmWave Sensor.

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

#### Segmentation by Type:

24?GHz

60?GHz

77/79 ?GHz

Others

#### Segmentation by Power:

Low Power

Medium Power

High Performance

#### Segmentation by Channel:

OEM Direct

Distributor

#### Segmentation by Application:

Intelligent Internet of Things (AIoT)

Automotive ADAS

Smart Manufacturing

Consumer Electronics

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.

Texas Instruments

Infineon

NXP

Socionext

Acconeer

LintechTT

Vayyar Imaging

Calterah

AirTouch (Shanghai) Intelligent Technology Co., Ltd.

SGR Semiconductors

Hangzhou Shore Technology Co., Ltd

Possumic Technology Co., Ltd

#### Key Questions Addressed in this Report

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

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

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

How do FMCW mmWave Sensor market opportunities vary by end market size?

How does FMCW mmWave Sensor break out by Type, by Application?

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