

# Global CMOS Millimeter-wave Radar Chip Market Growth 2026-2032

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## Abstracts

The global CMOS Millimeter-wave Radar Chip 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.

A CMOS Millimeter-wave Radar Chip is a millimeter-wave radar sensor chip manufactured based on CMOS (Complementary Metal-Oxide-Semiconductor) technology. This chip uses signals in the millimeter-wave frequency band (typically between 24 GHz and 77 GHz) for target detection, distance measurement, velocity detection, and angle estimation. CMOS technology allows this radar chip to integrate multiple functional modules in a small size, including signal transmission, reception, signal processing, and power management, while offering advantages such as low power consumption, low cost, and high integration. CMOS millimeter-wave radar chips are widely used in autonomous driving, industrial IoT, security monitoring, and smart homes. In autonomous driving, it provides real-time perception of the surrounding environment, such as detecting pedestrians, vehicles, and obstacles; in smart homes, it can be used for functions such as human presence detection and gesture recognition. Due to the inherent advantages of CMOS technology, this chip offers smaller size and lower cost compared to traditional radar sensors, enabling its widespread application in more scenarios. In 2025, the production volume of CMOS Millimeter-wave Radar Chips 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 “CMOS Millimeter-wave Radar Chip Industry Forecast” looks at past sales and reviews total world CMOS Millimeter-wave Radar Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected CMOS Millimeter-wave Radar Chip sales for 2026 through 2032. With CMOS Millimeter-wave Radar Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CMOS Millimeter-wave Radar Chip industry.

This Insight Report provides a comprehensive analysis of the global CMOS Millimeter-wave Radar Chip 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 CMOS Millimeter-wave Radar Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CMOS Millimeter-wave Radar Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CMOS Millimeter-wave Radar Chip 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 CMOS Millimeter-wave Radar Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of CMOS Millimeter-wave Radar Chip 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 (IIoT)

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 CMOS Millimeter-wave Radar Chip market?

What factors are driving CMOS Millimeter-wave Radar Chip market growth, globally and by region?

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

How do CMOS Millimeter-wave Radar Chip market opportunities vary by end market size?

How does CMOS Millimeter-wave Radar Chip break out by Type, by Application?

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