

Global Single-Chip mmWave Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Chip mmWave Sensor market size is expected to reach \$ 1980 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

A single-chip mmWave sensor is a highly integrated sensor chip based on frequency modulated continuous wave (FMCW) millimeter-wave radar technology. It integrates transmitting/receiving antennas, circuitry, signal processors, and MCUs into a single chip, enabling accurate measurement of distance, velocity, and angle information of targets. These sensors typically operate in millimeter-wave frequency bands such as 24GHz, 60GHz, and 77GHz, featuring high resolution, low power consumption, and small size. They can be used in automotive driver assistance, industrial automation, smart homes, security monitoring, and human detection. Single-chip millimeter-wave sensors reduce system complexity and cost through integrated design, while improving reliability and performance in complex environments. In 2025, the production volume of Single-Chip mmWave Sensors is approximately 125.16 million units, with an average price of approximately US\$6.59-28.89 per unit and a gross profit 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.

This report studies the global Single-Chip mmWave Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Chip mmWave 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 Single-Chip mmWave Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Chip mmWave Sensor total production and demand, 2021-2032, (K Pcs)

Global Single-Chip mmWave Sensor total production value, 2021-2032, (USD Million)

Global Single-Chip mmWave Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Single-Chip mmWave Sensor consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Single-Chip mmWave Sensor domestic production, consumption, key domestic manufacturers and share

Global Single-Chip mmWave Sensor production by manufacturer, production, price,

value and market share 2021-2026, (USD Million) & (K Pcs)

Global Single-Chip mmWave Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Single-Chip mmWave Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Single-Chip mmWave 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 Texas Instruments, Infineon, NXP, Socionext, Acconeer, LintechTT, Vayyar Imaging, Calterah, AirTouch (Shanghai) Intelligent Technology Co., Ltd., SGR Semiconductors, 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 Single-Chip mmWave Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Single-Chip mmWave Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Chip mmWave Sensor Market, Segmentation by Type:

24?GHz

60?GHz

77/79 ?GHz

Others

Global Single-Chip mmWave Sensor Market, Segmentation by Power:

Low Power

Medium Power

High Performance

Global Single-Chip mmWave Sensor Market, Segmentation by Channel:

OEM Direct

Distributor

Global Single-Chip mmWave Sensor Market, Segmentation by Application:

Intelligent Internet of Things (AIoT)

Automotive ADAS

Smart Manufacturing

Consumer Electronics

Others

Companies Profiled:

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 Answered:

1. How big is the global Single-Chip mmWave Sensor market?
2. What is the demand of the global Single-Chip mmWave Sensor market?
3. What is the year over year growth of the global Single-Chip mmWave Sensor

market?

4. What is the production and production value of the global Single-Chip mmWave Sensor market?
5. Who are the key producers in the global Single-Chip mmWave Sensor market?
6. What are the growth factors driving the market demand?

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