

Global Millimeter-wave 4D Imaging Radar Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Millimeter-wave 4D Imaging Radar Chip market size is expected to reach \$ 5108 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

Millimeter-wave 4D imaging radar chips are highly integrated semiconductor devices used in advanced radar sensing systems, enabling target detection in four dimensions: range, velocity, azimuth, and elevation. Compared to traditional radar chips, 4D imaging radar chips achieve higher-resolution environmental perception capabilities through multiple-input multiple-output (MIMO) antenna arrays, high-frequency millimeter-wave technology, and advanced signal processing algorithms. These chips are widely used in advanced driver assistance systems (ADAS) for automobiles, autonomous driving platforms, intelligent transportation systems, and industrial automation, enabling vehicles and equipment to accurately identify targets, measure distance and velocity, and perform real-time tracking in complex environments such as rain, fog, and darkness. The upstream of the millimeter-wave 4D imaging radar chip industry chain includes semiconductor material suppliers, RF component manufacturers, wafer fabrication service providers, packaging and testing companies, and signal processing IP providers; the midstream consists of radar chip design and manufacturing companies responsible for integrating RF front-ends, circuit processors, and AI acceleration modules; downstream applications include automakers, autonomous driving technology companies, robotics companies, and smart infrastructure suppliers. System integrators typically combine radar chips with antennas, sensors, and algorithm software to form complete radar sensing systems for environmental perception of vehicles and smart devices. In 2025, the global production of millimeter-wave 4D imaging radar chips is estimated at 56 million units, with an average market price of approximately US\$42 per unit. Major manufacturers in the industry typically maintain gross profit margins between

45% and 60%. The global production capacity of millimeter-wave 4D imaging radar chips is projected to reach approximately 70 million units in 2025.

This report studies the global Millimeter-wave 4D Imaging Radar Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Millimeter-wave 4D Imaging Radar Chip 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 Millimeter-wave 4D Imaging Radar Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Millimeter-wave 4D Imaging Radar Chip total production and demand, 2021-2032, (Million Units)

Global Millimeter-wave 4D Imaging Radar Chip total production value, 2021-2032, (USD Million)

Global Millimeter-wave 4D Imaging Radar Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Millimeter-wave 4D Imaging Radar Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Millimeter-wave 4D Imaging Radar Chip domestic production, consumption, key domestic manufacturers and share

Global Millimeter-wave 4D Imaging Radar Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Millimeter-wave 4D Imaging Radar Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Millimeter-wave 4D Imaging Radar Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Millimeter-wave 4D Imaging Radar Chip 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 NXP Semiconductors, Texas Instruments, Vayyar Imaging, Arbe Robotics, Gatlan Microelectronics Technology (Shenzhen) Co., Ltd., Uhnder, Zhuhai Microcreative Tech. Co., Ltd., Hangzhou Andar Technologies Co., Ltd., Gekong Microelectronics (Shenzhen) Co., Ltd., 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 Millimeter-wave 4D Imaging Radar Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Millimeter-wave 4D Imaging Radar Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Millimeter-wave 4D Imaging Radar Chip Market, Segmentation by Type:

24 GHz Radar Chip

60 GHz Radar Chip

77 GHz Radar Chip

79 GHz Radar Chip

Global Millimeter-wave 4D Imaging Radar Chip Market, Segmentation by Integration Level:

Discrete Radar Chipset

Integrated Radar SoC

Global Millimeter-wave 4D Imaging Radar Chip Market, Segmentation by Application:

Automotive Radar

Industrial Radar

Drone Radar

Smart Infrastructure Radar

Companies Profiled:

NXP Semiconductors

Texas Instruments

Vayyar Imaging

Arbe Robotics

Gatlan Microelectronics Technology (Shenzhen) Co., Ltd.

Uhnder

Zhuhai Microcreative Tech. Co., Ltd.

Hangzhou Andar Technologies Co., Ltd.

Gekong Microelectronics (Shenzhen) Co., Ltd.

Key Questions Answered:

1. How big is the global Millimeter-wave 4D Imaging Radar Chip market?
2. What is the demand of the global Millimeter-wave 4D Imaging Radar Chip market?
3. What is the year over year growth of the global Millimeter-wave 4D Imaging Radar Chip market?
4. What is the production and production value of the global Millimeter-wave 4D Imaging Radar Chip market?
5. Who are the key producers in the global Millimeter-wave 4D Imaging Radar Chip market?
6. What are the growth factors driving the market demand?

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