

Global Millimeter-wave 4D Imaging Radar Chip Market Growth 2026-2032

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Abstracts

The global Millimeter-wave 4D Imaging Radar Chip market size is predicted to grow from US\$ 2299 million in 2025 to US\$ 5032 million in 2032; it is expected to grow at a CAGR of 11.2% from 2026 to 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.

United States market for Millimeter-wave 4D Imaging Radar Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Millimeter-wave 4D Imaging Radar Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Millimeter-wave 4D Imaging Radar Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Millimeter-wave 4D Imaging Radar Chip players cover NXP Semiconductors, Texas Instruments, Vayyar Imaging, Arbe Robotics, Gatlan Microelectronics Technology (Shenzhen) Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Millimeter-wave 4D Imaging Radar Chip Industry Forecast" looks at past sales and reviews total world Millimeter-wave 4D Imaging Radar Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Millimeter-wave 4D Imaging Radar Chip sales for 2026 through 2032. With Millimeter-wave 4D Imaging Radar Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Millimeter-wave 4D Imaging Radar Chip industry.

This Insight Report provides a comprehensive analysis of the global Millimeter-wave 4D Imaging 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 Millimeter-wave 4D Imaging Radar Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Millimeter-wave 4D Imaging Radar Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Millimeter-wave 4D Imaging 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 Millimeter-wave 4D Imaging Radar Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Millimeter-wave 4D Imaging Radar Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

24 GHz Radar Chip

60 GHz Radar Chip

77 GHz Radar Chip

79 GHz Radar Chip

Segmentation by Integration Level:

Discrete Radar Chipset

Integrated Radar SoC

Segmentation by Application:

Automotive Radar

Industrial Radar

Drone Radar

Smart Infrastructure Radar

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.

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 Addressed in this Report

What is the 10-year outlook for the global Millimeter-wave 4D Imaging Radar Chip market?

What factors are driving Millimeter-wave 4D Imaging Radar Chip market growth,

globally and by region?

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

How do Millimeter-wave 4D Imaging Radar Chip market opportunities vary by end market size?

How does Millimeter-wave 4D Imaging Radar Chip break out by Type, by Application?

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