

Global Millimeter-wave 4D Imaging Radar Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Millimeter-wave 4D Imaging Radar Chip market size was valued at US\$ 2418 million in 2025 and is forecast to a readjusted size of US\$ 5108 million by 2032 with a CAGR of 10.5% during review period.

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 is a detailed and comprehensive analysis for global Millimeter-wave 4D Imaging Radar Chip market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Millimeter-wave 4D Imaging Radar Chip market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave 4D Imaging Radar Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave 4D Imaging Radar Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave 4D Imaging Radar Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Millimeter-wave 4D Imaging Radar Chip

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Millimeter-wave 4D Imaging Radar Chip market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Millimeter-wave 4D Imaging Radar Chip market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

24 GHz Radar Chip

60 GHz Radar Chip

77 GHz Radar Chip

79 GHz Radar Chip

Market segment by Integration Level

Discrete Radar Chipset

Integrated Radar SoC

Market segment by Application

Automotive Radar

Industrial Radar

Drone Radar

Smart Infrastructure Radar

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Millimeter-wave 4D Imaging Radar Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Millimeter-wave 4D Imaging Radar Chip, with price, sales quantity, revenue, and global market share of Millimeter-wave 4D Imaging Radar Chip from 2021 to 2026.

Chapter 3, the Millimeter-wave 4D Imaging Radar Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Millimeter-wave 4D Imaging Radar Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Millimeter-wave 4D Imaging Radar Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Millimeter-wave 4D Imaging Radar Chip.

Chapter 14 and 15, to describe Millimeter-wave 4D Imaging Radar Chip sales channel,

distributors, customers, research findings and conclusion.

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