

Global 4D Imaging Radar SoC 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 4D Imaging Radar SoC market size was valued at US\$ 346 million in 2025 and is forecast to a readjusted size of US\$ 1264 million by 2032 with a CAGR of 20.4% during review period.

4D Imaging Radar SoC is a highly integrated millimeter-wave system-on-chip that combines RF front-end circuitry, digital signal processing, and control logic on a single CMOS chip to achieve high angular resolution, elevation perception, and dense point-cloud imaging for advanced automotive, robotics, and UAV radar applications. In 2025, production was approximately 7.63 million units and the average price was USD 44 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 55%. Upstream, the most critical inputs include silicon wafers, photoresists, lithography machines, and etching tools, with representative suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor equipment and materials. The midstream segment involves system architecture design, RF and baseband integration, digital signal processing, mixed-signal verification, and SoC-level functional integration, which jointly determine computational capability, imaging fidelity, and signal quality. Downstream, 4D Imaging Radar SoC is used in automotive radar, robotics radar, and UAV radar by manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

In the process of the evolution of automobiles to a higher level of intelligence, traditional millimeter-wave radars can no longer meet the needs. Its perception information only contains distance and orientation, lacking height parameters, and cannot form high-density point cloud imaging, which makes it difficult to identify road targets. Although lidar with high-density point cloud imaging capability can solve the pain points of

traditional millimeter-wave radar, the cost of lidar on the car is high, and there are natural defects that cannot work around the clock. Therefore, 4D imaging radar has attracted the attention of the industry.

This report is a detailed and comprehensive analysis for global 4D Imaging Radar SoC 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 4D Imaging Radar SoC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 4D Imaging Radar SoC 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 4D Imaging Radar SoC 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 4D Imaging Radar SoC 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 4D Imaging Radar SoC
- 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 4D Imaging Radar SoC 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 Texas Instruments, Infineon

Technologies, Arbe Robotics, Smartmicro, Muniu Tech, WHST, HUAWEI, Calterah Semiconductor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4D Imaging Radar SoC 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

4Tx/4Rx

3Tx/4Rx

Others

Market segment by Process Node

40nm

28nm

Others

Market segment by Grade

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

Market segment by Application

Automotive Radar

Robot Radar

Drone Radar

Others

Major players covered

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

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 4D Imaging Radar SoC product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 4D Imaging Radar SoC 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 4D Imaging Radar SoC 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 4D Imaging Radar SoC.

Chapter 14 and 15, to describe 4D Imaging Radar SoC sales channel, distributors, customers, research findings and conclusion.

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