

Global 4D Imaging Radar SoC Market Growth 2026-2032

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Abstracts

The global 4D Imaging Radar SoC market size is predicted to grow from US\$ 329 million in 2025 to US\$ 1280 million in 2032; it is expected to grow at a CAGR of 21.7% from 2026 to 2032.

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.

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

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

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

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

Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

Segmentation by Process Node:

40nm

28nm

Others

Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

Segmentation by Application:

Automotive Radar

Robot Radar

Drone Radar

Others

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.

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

Key Questions Addressed in this Report

What is the 10-year outlook for the global 4D Imaging Radar SoC market?

What factors are driving 4D Imaging Radar SoC market growth, globally and by region?

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

How do 4D Imaging Radar SoC market opportunities vary by end market size?

How does 4D Imaging Radar SoC break out by Type, by Application?

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