

Global Single Chip Imaging Radar 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 Single Chip Imaging Radar market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 1538 million by 2032 with a CAGR of 19.8% during review period.

Single Chip Imaging Radar is a highly integrated radar solution that consolidates RF front-end, digital signal processing, and imaging algorithm capabilities onto a single CMOS chip, enabling high-resolution environmental perception with compact architecture, low power consumption, and consistent signal performance. Unlike conventional radar SoCs, it emphasizes imaging-level resolution and object differentiation, supporting advanced sensing functions such as fine-grained object contour detection and multi-target tracking in automotive scenarios. In 2025, production was approximately 9.33 million units and the average price was USD 45 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 includes system architecture design, RF front-end and baseband integration, imaging algorithm development, digital signal processing, mixed-signal verification, and SoC-level functional integration, which together define imaging resolution, computational capability, and radar performance. Downstream, Single Chip Imaging Radar is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

Single Chip Imaging Radar represents an important evolution in automotive sensing technology, shifting from traditional detection-based radar toward high-resolution environmental imaging within a compact semiconductor architecture. By integrating RF front-end, signal processing, and imaging algorithms onto a single chip, it enables more precise object recognition, contour reconstruction, and multi-target tracking, which are increasingly critical in advanced driver assistance systems and higher-level autonomous driving functions. In practical applications, it enhances perception reliability in complex scenarios such as low visibility, dense traffic, and dynamic urban environments, complementing camera and lidar systems. The current industry landscape reflects a transition phase, where performance optimization, algorithm maturity, and cost control remain key challenges, while semiconductor integration capabilities and system-level validation define competitive positioning. From a commercial perspective, adoption is gradually expanding from premium vehicle platforms toward broader segments, with profitability increasingly dependent on technological differentiation, system integration depth, and collaboration with automotive OEMs and tier-one suppliers.

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

Global Single Chip Imaging Radar 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 Single Chip Imaging Radar 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 Single Chip Imaging Radar 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 Single Chip Imaging Radar

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 Single Chip Imaging Radar 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

Single Chip Imaging Radar 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

Corner Radar

Front 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 Single Chip Imaging Radar product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Single Chip Imaging Radar 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 Single Chip Imaging Radar 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 Single Chip Imaging Radar.

Chapter 14 and 15, to describe Single Chip Imaging Radar sales channel, distributors, customers, research findings and conclusion.

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