

Global Single Chip Imaging Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single Chip Imaging Radar market size is expected to reach \$ 1538 million by 2032, rising at a market growth of 19.8% CAGR during the forecast period (2026-2032).

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 studies the global Single Chip Imaging Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single Chip Imaging Radar and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Single Chip Imaging Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single Chip Imaging Radar total production and demand, 2021-2032, (Million Units)

Global Single Chip Imaging Radar total production value, 2021-2032, (USD Million)

Global Single Chip Imaging Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Single Chip Imaging Radar consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Single Chip Imaging Radar domestic production, consumption, key domestic manufacturers and share

Global Single Chip Imaging Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Single Chip Imaging Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Single Chip Imaging Radar production by Application, production, value, CAGR,

2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Single Chip Imaging Radar market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single Chip Imaging Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Single Chip Imaging Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single Chip Imaging Radar Market, Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

Global Single Chip Imaging Radar Market, Segmentation by Process Node:

40nm

28nm

Others

Global Single Chip Imaging Radar Market, Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

Global Single Chip Imaging Radar Market, Segmentation by Application:

Corner Radar

Front Radar

Others

Companies Profiled:

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

Key Questions Answered:

1. How big is the global Single Chip Imaging Radar market?
2. What is the demand of the global Single Chip Imaging Radar market?
3. What is the year over year growth of the global Single Chip Imaging Radar market?
4. What is the production and production value of the global Single Chip Imaging Radar market?
5. Who are the key producers in the global Single Chip Imaging Radar market?
6. What are the growth factors driving the market demand?

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