

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

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## Abstracts

The global Single-Chip Digital 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 Digital Imaging Radar is a highly integrated radar solution that combines RF front-end circuits, digital signal processing, and digital imaging capabilities on a single CMOS die, enabling high-resolution environmental perception with compact architecture, low power consumption, and stable signal performance. Compared with conventional radar SoCs, it emphasizes digital-domain imaging and data processing, supporting enhanced object recognition, contour reconstruction, and multi-target tracking for automotive sensing applications. 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, digital 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 Digital Imaging Radar is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

Single-Chip Digital Imaging Radar is an advanced automotive radar solution that integrates RF front-end circuitry, digital signal processing, and on-chip imaging capabilities into a single CMOS die, enabling precise environmental mapping and real-

time detection of multiple targets. It is designed to enhance vehicle perception systems, providing high-resolution imaging, object classification, and accurate contour reconstruction while maintaining compact size and low power consumption. Its advantages include consistent signal performance under varied driving conditions, rapid data processing, and improved interaction with driver assistance systems. Currently, the industry is focused on optimizing integration efficiency, digital algorithm refinement, and verification methodologies, which are critical for maintaining performance stability and reliability in increasingly complex automotive sensing environments.

This report studies the global Single-Chip Digital Imaging Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Chip Digital 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 Digital Imaging Radar that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

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

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

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

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

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

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

Global Single-Chip Digital Imaging Radar production by Type, production, value, CAGR,

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

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

This report profiles key players in the global Single-Chip Digital 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 Digital 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 Digital Imaging Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Single-Chip Digital Imaging Radar Market, Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

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

40nm

28nm

Others

#### Global Single-Chip Digital Imaging Radar Market, Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

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

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