

# Global Automotive Radar One-Chip SoC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GC7818184C6CEN.html>

Date: May 2026

Pages: 90

Price: US\$ 3,480.00 (Single User License)

ID: GC7818184C6CEN

## Abstracts

According to our (Global Info Research) latest study, the global Automotive Radar One-Chip SoC 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.

Automotive Radar One-Chip SoC is a highly integrated radar solution that consolidates RF front-end, digital signal processing, and control functions onto a single CMOS chip, enabling compact architecture, low power consumption, and stable signal performance for automotive sensing applications. Compared with traditional multi-chip radar systems, it emphasizes system-level integration, cost efficiency, and scalability, supporting core functions such as object detection, distance measurement, and multi-target tracking in advanced driver assistance systems. 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 signal processing, mixed-signal verification, and SoC-level functional integration, which together define computational capability, integration level, and radar performance. Downstream, Automotive Radar One-Chip SoC is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

The market outlook for Automotive Radar One-Chip SoC reflects the accelerating

adoption of advanced driver-assistance systems and autonomous driving technologies, where compact, highly integrated radar solutions are increasingly essential. The trend toward higher integration and multi-function sensing is driving continuous improvements in chip design, signal processing algorithms, and system reliability, which in turn influence industry profitability and adoption rates. Manufacturers are focusing on optimizing production yield, thermal management, and mixed-signal verification to meet stringent automotive standards. As vehicle-level sensing becomes more sophisticated, demand for single-chip radar SoCs that can support high-precision object detection, multi-target tracking, and robust environmental perception is expected to remain a key factor shaping future industry dynamics.

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

Global Automotive Radar One-Chip 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 Automotive Radar One-Chip 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 Automotive Radar One-Chip 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 Automotive Radar One-Chip 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 Automotive Radar One-Chip 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**

Automotive Radar One-Chip 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

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 Automotive Radar One-Chip SoC product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Automotive Radar One-Chip 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 Automotive Radar One-Chip 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 Automotive Radar One-Chip SoC.

Chapter 14 and 15, to describe Automotive Radar One-Chip SoC sales channel, distributors, customers, research findings and conclusion.

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