

# Global Radar SoC Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Radar SoC market size is expected to reach \$ 4603 million by 2032, rising at a market growth of 14.8% CAGR during the forecast period (2026-2032).

Radar SoC is a system-level semiconductor device that highly integrates core radar functional modules into a single chip. Its core lies in integrating key modules such as radar RF front-end, transmit/receive channels, ADC, clock/PLL, digital signal processing, microcontroller/processor, on-chip memory and communication interfaces into one chip, realizing the integration of radar signal transmission, reception, processing and control, while significantly reducing the demand for external processors and peripheral components. Its core features include high integration, miniaturization, low power consumption and low system BOM. It mainly covers mainstream short-range and automotive radar frequency bands including 24 GHz, 60 GHz and 76-81 GHz, targeting millimeter-wave and near-millimeter-wave radar sensing scenarios, and can directly support core tasks such as target detection, ranging, velocity measurement and angle measurement. In 2025, global shipments of Radar SoC reached approximately 59 million units, with an average selling price (ASP) of 32 US dollars per unit and an average industry gross margin of about 46%.

Radar SoCs have entered a phase of high integration, multi-band compatibility and scenario-based customization. Solutions in the 76-81 GHz band remain mainstream for automotive applications, while high-precision short-range products at 60 GHz are gaining rapid adoption, and 24 GHz solutions are gradually phasing out. The industry is shifting its focus toward highly reliable automotive-grade and industrial-grade solutions. Imaging radar and in-cabin vital signs monitoring have become core automotive applications, with automotive certification as a mandatory entry requirement. Technologically, radar SoCs feature continuously upgraded DSP

computing power and built-in AI acceleration modules, with some products evolving toward radar-communication integration. This further reduces system BOM cost and size, supporting miniaturized and intelligent deployment in automotive, industrial, smart home and other fields.

This report studies the global Radar SoC production, demand, key manufacturers, and key regions.

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

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

Global Radar SoC total production and demand, 2021-2032, (Million Units)

Global Radar SoC total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Radar SoC domestic production, consumption, key domestic manufacturers and share

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

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

Global Radar SoC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Radar SoC 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 NXP Semiconductors N.V., Texas Instruments Incorporated, Calterah Semiconductor Technology (Shanghai) Co., Ltd., Infineon, Uhnder, Inc., Possumic, Bosch, SGR Semiconductors, ICLegend Micro, AirTouch, 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 Radar SoC 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 Radar SoC Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Radar SoC Market, Segmentation by Type:**

Automotive-Grade Radar SoC

Industrial-Grade Radar SoC

Consumer-Grade Radar SoC

## Global Radar SoC Market, Segmentation by Frequency Band:

24GHz Radar SoC

57-71 GHz Radar SoC

76-81GHz Radar SoC

## Global Radar SoC Market, Segmentation by Application:

Automotive

Industrial

Consumer Electronics

Others

## Companies Profiled:

NXP Semiconductors N.V.

Texas Instruments Incorporated

Calterah Semiconductor Technology (Shanghai) Co., Ltd.

Infineon

Uhnder, Inc.

Possumic

Bosch

SGR Semiconductors

ICLegend Micro

## AirTouch

### **Key Questions Answered:**

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

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