

Global Radar Signal Processor Chip Market Growth 2026-2032

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Abstracts

The global Radar Signal Processor Chip market size is predicted to grow from US\$ 4285 million in 2025 to US\$ 9691 million in 2032; it is expected to grow at a CAGR of 12.4% from 2026 to 2032.

The global shipment volume of radar signal processing chips exceeded 480 million units worldwide. Radar signal processing chips are specialized semiconductor devices designed for radar echo acquisition, filtering, FFT processing, beamforming, target detection, velocity and distance calculation, angle estimation, and environmental perception. The market mainly includes Radar DSPs, Radar SoCs, millimeter-wave radar processors, FPGA-based radar processing platforms, and AI-enhanced edge radar processing chips. The research scope primarily covers automotive 77GHz/79GHz radar systems, industrial millimeter-wave sensing, aerospace radar systems, defense phased-array radar, drone sensing radar, and security monitoring applications. These chips are commonly manufactured using RFCMOS, CMOS, SiGe BiCMOS, and advanced FinFET process technologies, integrating DSP cores, MCUs, NPUs, AI accelerators, high-speed ADCs, beamforming engines, and high-bandwidth interfaces. Key functions include multi-target tracking, object recognition, real-time environmental sensing, and high-resolution radar imaging. Driven by autonomous driving, 4D imaging radar adoption, industrial intelligent sensing, and defense electronics modernization, radar signal processing chips are rapidly evolving toward higher integration, stronger computing capability, lower power consumption, and AI-oriented architectures.

The global Radar Signal Processor Chip industry entered a new stage in 2025 characterized by automotive-electronics-driven demand, AI-oriented technology upgrades, and regional supply chain restructuring. Automotive millimeter-wave radar remains the largest demand source, while the penetration of ADAS and L2+/L3

autonomous driving systems continues to accelerate demand for 77GHz and 79GHz Radar SoCs. In particular, 4D imaging radar has become one of the most important upgrade directions in the industry. From a product roadmap perspective, highly integrated Radar SoCs are gradually replacing traditional discrete DSP architectures, while AI acceleration, beamforming capability, multi-target recognition, and edge perception performance are becoming key competitive factors. As autonomous driving systems require higher-resolution sensing and real-time environmental perception, radar processing chips are evolving toward higher computing performance, lower power consumption, and stronger edge intelligence. From the supply-side perspective, the global market is still dominated by leading semiconductor companies from North America, Europe, and Japan, which maintain strong advantages in automotive-grade qualification, millimeter-wave integration, radar algorithms, and customer validation cycles. However, Chinese domestic Radar SoC suppliers are rapidly entering mass production, particularly in automotive radar, industrial sensing, robotics perception, and intelligent security applications. At the same time, regional supply chain diversification is accelerating, with automotive OEMs increasingly promoting secondary sourcing strategies to reduce geopolitical and supply-chain risks. From an industry development perspective, investment activities are increasingly focused on 4D imaging radar, AI-enabled radar processors, edge fusion perception platforms, and high-frequency millimeter-wave solutions. Strategic partnerships, mergers and acquisitions, and software-hardware integration are becoming common approaches to strengthen system-level competitiveness. In addition to automotive applications, industrial automation, unmanned systems, smart transportation, and low-altitude economy applications are expanding the demand base for radar processing technologies. The market is therefore expected to maintain double-digit growth during the forecast period, with high-performance automotive Radar SoCs and AI-enhanced edge radar processing platforms becoming the primary growth drivers.

LP Information, Inc. (LPI) ' newest research report, the "Radar Signal Processor Chip Industry Forecast" looks at past sales and reviews total world Radar Signal Processor Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Radar Signal Processor Chip sales for 2026 through 2032. With Radar Signal Processor Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Radar Signal Processor Chip industry.

This Insight Report provides a comprehensive analysis of the global Radar Signal Processor Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity.

This report also analyzes the strategies of leading global companies with a focus on Radar Signal Processor Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Radar Signal Processor Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Radar Signal Processor Chip and breaks down the forecast by Frequency Band, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Radar Signal Processor Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Radar Signal Processor Chip market by product type, application, key manufacturers and key regions and countries.

Segmentation by Frequency Band:

24GHz Radar Chip

60GHz Radar Chip

77GHz Radar Chip

79GHz Radar Chip

Others

Segmentation by Hardware Platform:

Application Specific Integrated Circuits (ASIC)

Field Programmable Gate Arrays (FPGA)

Digital Signal Processors (DSP)

Others

Segmentation by Signal Processing Algorithm:

Time Domain Processing Chips

Frequency Domain Processing Chips

Multidimensional Signal Processing Chips

Others

Segmentation by Application:

Automotive Industry

Defense & Aerospace Industry

Industrial Industry

Consumer Electronics Industry

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NXP Semiconductors

Texas Instruments

Analog Devices

Infineon Technologies

STMicroelectronics

Renesas Electronics

Broadcom

Qualcomm

Microchip Technology

Mitsubishi Electric

Calterah

ARCOMICRO

Key Questions Addressed in this Report

What is the 10-year outlook for the global Radar Signal Processor Chip market?

What factors are driving Radar Signal Processor Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Radar Signal Processor Chip market opportunities vary by end market size?

How does Radar Signal Processor Chip break out by Frequency Band, by Application?

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