

Global Radar Signal Processor Chip Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GD37AE106F41EN.html>

Date: June 2026

Pages: 124

Price: US\$ 4,480.00 (Single User License)

ID: GD37AE106F41EN

Abstracts

The global Radar Signal Processor Chip market size is expected to reach \$ 9802 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Radar Signal Processor Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Radar Signal Processor Chip total production and demand, 2021-2032, (Million

Units)

Global Radar Signal Processor Chip total production value, 2021-2032, (USD Million)

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

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

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

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

Global Radar Signal Processor Chip production by Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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

This report profiles key players in the global Radar Signal Processor Chip 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, Texas Instruments, Analog Devices, Infineon Technologies, STMicroelectronics, Renesas Electronics, Broadcom, Qualcomm, Microchip Technology, Mitsubishi Electric, 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 Signal Processor Chip 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 Frequency Band, 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 Signal Processor Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radar Signal Processor Chip Market, Segmentation by Frequency Band:

24GHz Radar Chip

60GHz Radar Chip

77GHz Radar Chip

79GHz Radar Chip

Others

Global Radar Signal Processor Chip Market, Segmentation by Hardware Platform:

Application Specific Integrated Circuits (ASIC)

Field Programmable Gate Arrays (FPGA)

Digital Signal Processors (DSP)

Others

Global Radar Signal Processor Chip Market, Segmentation by Signal Processing Algorithm:

Time Domain Processing Chips

Frequency Domain Processing Chips

Multidimensional Signal Processing Chips

Others

Global Radar Signal Processor Chip Market, Segmentation by Application:

Automotive Industry

Defense & Aerospace Industry

Industrial Industry

Consumer Electronics Industry

Others

Companies Profiled:

NXP Semiconductors

Texas Instruments

Analog Devices

Infineon Technologies

STMicroelectronics

Renesas Electronics

Broadcom

Qualcomm

Microchip Technology

Mitsubishi Electric

Calterah

ARCOMICRO

Key Questions Answered:

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

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