

# Global 77GHz Automotive Radar SoC Market Growth 2026-2032

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## Abstracts

The global 77GHz Automotive Radar SoC market size is predicted to grow from US\$ 372 million in 2025 to US\$ 1419 million in 2032; it is expected to grow at a CAGR of 21.3% from 2026 to 2032.

77GHz automotive radar SoC is a highly integrated millimeter-wave chip operating in the standard 77GHz radar band, combining the RF front end, digital signal processing unit, and control module within a single architecture. Leveraging CMOS technology, it delivers a compact form factor, low power consumption, and stable signal performance, making it suitable for high-resolution sensing in corner radars and front long-range radars. In 2025, total production reached approximately 8.84 million units, with an average unit price of USD 43. The industry's capacity utilization rate remained around 60% in 2025, while the average gross margin stood at about 55%. Upstream inputs include silicon wafers, photoresists, lithography systems, and etching equipment, with leading suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor manufacturing tools and materials. The midstream segment covers system architecture design, RF-baseband integration, digital signal processing, mixed-signal verification, and full SoC-level functional integration, which determine compute capability, signal quality, and radar performance. Downstream customers mainly include corner radar and front radar manufacturers, such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

In the process of the evolution of automobiles to a higher level of intelligence, traditional millimeter-wave radars can no longer meet the needs. Its perception information only contains distance and orientation, lacking height parameters, and cannot form high-density point cloud imaging, which makes it difficult to identify road targets. Although lidar with high-density point cloud imaging capability can solve the pain points of

traditional millimeter-wave radar, the cost of lidar on the car is high, and there are natural defects that cannot work around the clock. Therefore, 4D imaging radar has attracted the attention of the industry.

LP Information, Inc. (LPI) ' newest research report, the “77GHz Automotive Radar SoC Industry Forecast” looks at past sales and reviews total world 77GHz Automotive Radar SoC sales in 2025, providing a comprehensive analysis by region and market sector of projected 77GHz Automotive Radar SoC sales for 2026 through 2032. With 77GHz Automotive Radar SoC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 77GHz Automotive Radar SoC industry.

This Insight Report provides a comprehensive analysis of the global 77GHz Automotive Radar SoC 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 77GHz Automotive Radar SoC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 77GHz Automotive Radar SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 77GHz Automotive Radar SoC and breaks down the forecast by Type, 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 77GHz Automotive Radar SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of 77GHz Automotive Radar SoC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4Tx/4Rx

3Tx/4Rx

Others

### Segmentation by Process Node:

40nm

28nm

Others

### Segmentation by Grade:

ISO 26262 ASIL-B

ISO 26262 ASIL-C

Others

### Segmentation by Application:

Corner Radar

Front Radar

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.

Texas Instruments

Infineon Technologies

Arbe Robotics

Smartmicro

Muniu Tech

WHST

HUAWEI

Calterah Semiconductor

### Key Questions Addressed in this Report

What is the 10-year outlook for the global 77GHz Automotive Radar SoC market?

What factors are driving 77GHz Automotive Radar SoC market growth, globally and by region?

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

How do 77GHz Automotive Radar SoC market opportunities vary by end market size?

How does 77GHz Automotive Radar SoC break out by Type, by Application?

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