

# Global 76–81GHz Automotive Radar SoC Market Growth 2026-2032

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## Abstracts

The global 76–81GHz Automotive Radar SoC market size is predicted to grow from US\$ 411 million in 2025 to US\$ 1555 million in 2032; it is expected to grow at a CAGR of 21.1% from 2026 to 2032.

76–81GHz Automotive Radar SoC is a highly integrated millimeter-wave system-on-chip that operates in the 76–81GHz band and combines RF front-end circuits, digital signal processing, and microcontroller functions on a single CMOS die, enabling compact architecture, low power consumption, and stable signal performance required for high-resolution angle radar and forward radar in advanced automotive sensing. 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 determine computational capability, radar performance, and integration level. Downstream, 76–81GHz Automotive Radar SoC is used by angle radar and forward 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 “76–81GHz Automotive Radar SoC Industry Forecast” looks at past sales and reviews total world 76–81GHz Automotive Radar SoC sales in 2025, providing a comprehensive analysis by region and market sector of projected 76–81GHz Automotive Radar SoC sales for 2026 through 2032. With 76–81GHz 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 76–81GHz Automotive Radar SoC industry.

This Insight Report provides a comprehensive analysis of the global 76–81GHz 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 76–81GHz 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 76–81GHz Automotive Radar SoC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 76–81GHz 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 76–81GHz Automotive Radar SoC.

This report presents a comprehensive overview, market shares, and growth opportunities of 76–81GHz 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 76–81GHz Automotive Radar SoC market?

What factors are driving 76–81GHz Automotive Radar SoC market growth, globally and by region?

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

How do 76–81GHz Automotive Radar SoC market opportunities vary by end market size?

How does 76–81GHz Automotive Radar SoC break out by Type, by Application?

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