

Global 76-81GHz Automotive CMOS Transceiver Market Growth 2026-2032

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Abstracts

The global 76-81GHz Automotive CMOS Transceiver market size is predicted to grow from US\$ 245 million in 2025 to US\$ 682 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

76-81GHz Automotive CMOS Transceiver is a highly integrated millimeter-wave device designed for angle radar and forward radar, operating in the 76–81GHz band and built on CMOS technology to deliver stable RF performance, low power consumption, and high reliability required by advanced automotive sensing systems with stringent demands on detection precision and system cost. In 2025, production was approximately 16.67 million units and the average price was USD 15 per unit. The industry's capacity utilization rate in 2025 was about 52% and the average gross margin was around 56%. 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 materials and equipment. The midstream segment includes system architecture design, analog front-end development, RF and baseband integration, digital signal processing, mixed-signal verification, and tape-out management, which collectively determine the integration level and signal performance of the transceiver. Downstream, 76-81GHz Automotive CMOS Transceiver is used by angle radar and forward radar manufacturers such as Bosch, Continental, Aptiv, Valeo, Denso, ZF, and Huawei.

United States market for 76-81GHz Automotive CMOS Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 76-81GHz Automotive CMOS Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 76-81GHz Automotive CMOS Transceiver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 76-81GHz Automotive CMOS Transceiver players cover NXP Semiconductors, Texas Instruments, Infineon Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "76-81GHz Automotive CMOS Transceiver Industry Forecast" looks at past sales and reviews total world 76-81GHz Automotive CMOS Transceiver sales in 2025, providing a comprehensive analysis by region and market sector of projected 76-81GHz Automotive CMOS Transceiver sales for 2026 through 2032. With 76-81GHz Automotive CMOS Transceiver 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 CMOS Transceiver industry.

This Insight Report provides a comprehensive analysis of the global 76-81GHz Automotive CMOS Transceiver 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 CMOS Transceiver 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 CMOS Transceiver market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 76-81GHz Automotive CMOS Transceiver 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 CMOS Transceiver.

This report presents a comprehensive overview, market shares, and growth opportunities of 76-81GHz Automotive CMOS Transceiver market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

3Tx/4Rx

2Tx/3Rx

Others

Segmentation by Package:

FOWLP

FCBGA

Others

Segmentation by Process Node:

28nm

45nm

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.

NXP Semiconductors

Texas Instruments

Infineon Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global 76-81GHz Automotive CMOS Transceiver market?

What factors are driving 76-81GHz Automotive CMOS Transceiver market growth, globally and by region?

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

How do 76-81GHz Automotive CMOS Transceiver market opportunities vary by end market size?

How does 76-81GHz Automotive CMOS Transceiver break out by Type, by Application?

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