

Global 76-81GHz Automotive CMOS Transceiver Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 76-81GHz Automotive CMOS Transceiver market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 683 million by 2032 with a CAGR of 14.9% during review period.

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.

This report is a detailed and comprehensive analysis for global 76-81GHz Automotive CMOS Transceiver market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 76-81GHz Automotive CMOS Transceiver market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 76-81GHz Automotive CMOS Transceiver market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 76-81GHz Automotive CMOS Transceiver market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 76-81GHz Automotive CMOS Transceiver market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for 76-81GHz Automotive CMOS Transceiver
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global 76-81GHz Automotive CMOS Transceiver market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NXP Semiconductors, Texas Instruments, Infineon Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

76-81GHz Automotive CMOS Transceiver market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

3Tx/4Rx

2Tx/3Rx

Others

Market segment by Package

FOWLP

FCBGA

Others

Market segment by Process Node

28nm

45nm

Others

Market segment by Application

Corner Radar

Front Radar

Others

Major players covered

NXP Semiconductors

Texas Instruments

Infineon Technologies

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 76-81GHz Automotive CMOS Transceiver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 76-81GHz Automotive CMOS Transceiver, with price, sales quantity, revenue, and global market share of 76-81GHz Automotive CMOS Transceiver from 2021 to 2026.

Chapter 3, the 76-81GHz Automotive CMOS Transceiver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 76-81GHz Automotive CMOS Transceiver breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 76-81GHz Automotive CMOS Transceiver market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 76-81GHz Automotive CMOS Transceiver.

Chapter 14 and 15, to describe 76-81GHz Automotive CMOS Transceiver sales channel, distributors, customers, research findings and conclusion.

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