

Global 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar Transceiver market size was valued at US\$ 321 million in 2025 and is forecast to a readjusted size of US\$ 827 million by 2032 with a CAGR of 14.6% during review period.

77 GHz RFCMOS radar transceivers are highly integrated millimeter-wave front-end devices built on CMOS processes to enable compact, low-cost, and high-performance wireless sensing for automotive radar, industrial radar, and IoT systems. In 2024, production was about 22.5 million units and the average price was USD 12 per unit. The industry's capacity utilization rate in 2024 was around 51% and the average gross margin was about 55%. Upstream inputs include silicon wafers, photoresists, lithography machines, and etching equipment, with representative suppliers such as ASML, Tokyo Electron, and Applied Materials providing essential semiconductor fabrication tools and materials. The midstream focuses on system architecture design, analog front-end development, circuit integration, digital signal processing, mixed-signal verification, and tape-out management, which determine performance and integration for millimeter-wave applications. Downstream, 77 GHz RFCMOS radar transceivers are broadly used in automotive and industrial radar platforms, with Valeo, Continental, and Aptiv adopting these components to reduce system cost and size while enhancing detection performance. The market has been led by NXP Semiconductors and Texas Instruments. A decade ago, automotive radar architectures relied on SiGe solutions that offered strong RF performance but could not integrate MCUs and DSPs on the same die, requiring multi-chip designs. Around 2017, Texas Instruments introduced a single-chip millimeter-wave radar based on RF CMOS that integrated the RF front-end, ADC, DSP, and MCU on one CMOS chip, significantly improving integration and reducing

system cost. NXP later leveraged its S32 architecture to launch high-integration RF CMOS radar solutions and rapidly secured Tier 1 customers. Infineon maintained advantages in SiGe but did not pivot to RF CMOS in time and ultimately missed the critical transition toward highly integrated radar platforms.

This report is a detailed and comprehensive analysis for global 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar Transceiver market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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, etc.

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

Market Segmentation

77 GHz RFCMOS Radar 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 Grade

ISO 26262 ASIL B/D

ISO 26262 ASIL A/QM

Others

Market segment by Package

BGA Package

SiP Package

Others

Market segment by Application

Automotive Radar

Industrial Radar

Others

Major players covered

NXP Semiconductors

Texas Instruments

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 77 GHz RFCMOS Radar Transceiver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 77 GHz RFCMOS Radar Transceiver, with price, sales quantity, revenue, and global market share of 77 GHz RFCMOS Radar Transceiver from 2021 to 2026.

Chapter 3, the 77 GHz RFCMOS Radar Transceiver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar Transceiver.

Chapter 14 and 15, to describe 77 GHz RFCMOS Radar Transceiver sales channel, distributors, customers, research findings and conclusion.

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