

# Global 77 GHz RFCMOS Radar Transceiver Market Growth 2026-2032

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## Abstracts

The global 77 GHz RFCMOS Radar Transceiver market size is predicted to grow from US\$ 305 million in 2025 to US\$ 825 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

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.

United States market for 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar Transceiver players cover NXP Semiconductors, Texas Instruments, 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 "77 GHz RFCMOS Radar Transceiver Industry Forecast" looks at past sales and reviews total world 77 GHz RFCMOS Radar Transceiver sales in 2025, providing a comprehensive analysis by region and market sector of projected 77 GHz RFCMOS Radar Transceiver sales for 2026 through 2032. With 77 GHz RFCMOS Radar Transceiver sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 77 GHz RFCMOS Radar Transceiver industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 77 GHz RFCMOS Radar 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 77 GHz RFCMOS Radar Transceiver.

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

**Segmentation by Type:**

3Tx/4Rx

2Tx/3Rx

Others

**Segmentation by Grade:**

ISO 26262 ASIL B/D

ISO 26262 ASIL A/QM

Others

**Segmentation by Package:**

BGA Package

SiP Package

Others

**Segmentation by Application:**

Automotive Radar

Industrial 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

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global 77 GHz RFCMOS Radar Transceiver market?

What factors are driving 77 GHz RFCMOS Radar Transceiver market growth, globally and by region?

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

How do 77 GHz RFCMOS Radar Transceiver market opportunities vary by end market size?

How does 77 GHz RFCMOS Radar Transceiver break out by Type, by Application?

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