

# Global RF CMOS Front-ends ICs Market Growth 2026-2032

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## Abstracts

The global RF CMOS Front-ends ICs 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.

RF CMOS front-ends ICs are highly integrated radio frequency front-end solutions built on CMOS processes to support automotive radar, industrial radar, and IoT devices with smaller footprint, lower cost, and strong wireless transceiver performance. 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 tools and materials for semiconductor fabrication. 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. Downstream, RF CMOS front-ends ICs are widely used in automotive and industrial radar systems, with Valeo, Continental, and Aptiv adopting these solutions to reduce cost and size while improving performance. The market has been led by NXP Semiconductors and Texas Instruments. A decade ago, automotive radar used SiGe-based architectures that offered strong RF performance but required multiple chips because digital blocks such as MCUs and DSPs could not be integrated on the same die. 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 enhancing integration and lowering system cost. NXP later leveraged its S32 architecture to provide high-integration RF CMOS solutions and quickly secured Tier 1 customers. Infineon maintained advantages in SiGe but did not

shift to RF CMOS in time and missed the key market transition toward high-integration radar platforms.

United States market for RF CMOS Front-ends ICs 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 RF CMOS Front-ends ICs 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 RF CMOS Front-ends ICs is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key RF CMOS Front-ends ICs 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 "RF CMOS Front-ends ICs Industry Forecast" looks at past sales and reviews total world RF CMOS Front-ends ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected RF CMOS Front-ends ICs sales for 2026 through 2032. With RF CMOS Front-ends ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world RF CMOS Front-ends ICs industry.

This Insight Report provides a comprehensive analysis of the global RF CMOS Front-ends ICs 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 RF CMOS Front-ends ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global RF CMOS Front-ends ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for RF CMOS Front-ends ICs 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 RF CMOS Front-ends ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of RF CMOS Front-ends ICs market by product type, application, key manufacturers and key regions and countries.

**Segmentation by Type:**

2Tx/3Rx

3Tx/4Rx

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 RF CMOS Front-ends ICs market?

What factors are driving RF CMOS Front-ends ICs market growth, globally and by region?

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

How do RF CMOS Front-ends ICs market opportunities vary by end market size?

How does RF CMOS Front-ends ICs break out by Type, by Application?

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