

Global RF-System-on-a-Chip (RF-SoC) 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 RF-System-on-a-Chip (RF-SoC) market size was valued at US\$ 1373 million in 2025 and is forecast to a readjusted size of US\$ 1818 million by 2032 with a CAGR of 4.1% during review period.

An RF System-on-a-Chip (RF-SoC) is a highly integrated semiconductor device that combines RF front-end components, baseband processing, high-speed data converters (ADC/DAC), and digital signal processing units on a single chip. RF-SoCs enable direct acquisition, conversion, processing, and transmission of RF signals while reducing system size, power consumption, and design complexity. They are widely used in communication infrastructure, radar systems, test and measurement, and high-frequency data acquisition applications.

The production volume of RF system-on-a-chip was 771,000 units in 2025, with an average price of \$1,730 per unit.

From an industry chain perspective, upstream mainly consists of advanced wafer fabrication, RF and mixed-signal IP licensing, EDA design tools, RF materials, and advanced packaging and testing services. High-performance CMOS and SiGe BiCMOS process platforms are critical for high-frequency performance and power efficiency, while advanced packaging technologies directly affect multi-channel synchronization capability and thermal management. The upstream segment is relatively concentrated and highly dependent on advanced process nodes and RF design expertise.

Downstream applications represent the core value realization of RF-SoC products and are primarily concentrated in mobile communication infrastructure, radar and wireless

sensing systems, satellite communications and aerospace systems, defense electronics, and test and measurement equipment. Communication base stations, particularly for 5G and future 6G networks, constitute the largest demand source, driving continuous upgrades toward higher bandwidth, multi-channel integration, and lower power consumption. Millimeter-wave radar and intelligent transportation systems are experiencing rapid growth in demand for highly integrated high-frequency chips. Defense and aerospace markets feature high technical barriers and long certification cycles but offer the strongest profitability. The test and measurement segment is relatively stable, emphasizing precision and long-term supply capability. Overall, downstream markets are characterized by high technical standards, relatively concentrated customers, and long product life cycles.

Industry trends focus on higher frequency support, greater integration, and platform-based architectures. The expansion of millimeter-wave and higher-frequency applications is accelerating, with deeper convergence between RF and digital processing and increasing adoption of software-defined radio architectures. Key growth drivers include global mobile network upgrades, development of intelligent radar and autonomous driving systems, rising defense digitalization demand, and system miniaturization. Major constraints include high R&D investment, complex design and validation processes, volatility in advanced process costs, and intensifying price competition in certain segments.

In terms of profitability, RF-SoC products maintain relatively high gross margins across the industry. Communication infrastructure products typically achieve margins of 50% to 70%, defense and aerospace applications can reach 60% to above 80%, industrial and test and measurement products range from 45% to 65%, and general or lower-end products range from 35% to 50%. The overall industry weighted average gross margin is approximately 50% to 65%, reflecting strong technological premium capability, while remaining sensitive to wafer cost fluctuations and competitive dynamics.

This report is a detailed and comprehensive analysis for global RF-System-on-a-Chip (RF-SoC) 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 RF-System-on-a-Chip (RF-SoC) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global RF-System-on-a-Chip (RF-SoC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global RF-System-on-a-Chip (RF-SoC) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global RF-System-on-a-Chip (RF-SoC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 RF-System-on-a-Chip (RF-SoC)

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 RF-System-on-a-Chip (RF-SoC) 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 Broadcom, Qualcomm, MediaTek, Samsung, NXP, Infineon, Texas Instruments, STMicroelectronics, Renesas, Analog Devices, etc.

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

Market Segmentation

RF-System-on-a-Chip (RF-SoC) 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

RF Front-End Integrated

ADC/DAC Integrated

Full Signal-Chain Integrated

Market segment by Frequency Range

Sub-6 GHz

6?18 GHz

Millimeter Wave (More than 24 GHz)

Market segment by Data Conversion Performance

12-bit

14-bit

16-bit

Market segment by Application

5G And 6G Communication Base Stations

Software-Defined Radio Systems

Phased Array Radar Systems

Electronic Warfare And Defense Electronics

Test And Measurement Equipment

Major players covered

Broadcom

Qualcomm

MediaTek

Samsung

NXP

Infineon

Texas Instruments

STMicroelectronics

Renesas

Analog Devices

Synaptics

Qorvo

Realtek

Microchip

Silicon Labs

Nordic Semiconductor

Espressif

Telink Semiconductor

Huawei HiSilicon

Unisoc

Calterah

ASR Microelectronics

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 RF-System-on-a-Chip (RF-SoC) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of RF-System-on-a-Chip (RF-SoC), with price, sales quantity, revenue, and global market share of RF-System-on-a-Chip (RF-SoC) from 2021 to 2026.

Chapter 3, the RF-System-on-a-Chip (RF-SoC) competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the RF-System-on-a-Chip (RF-SoC) 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 RF-System-on-a-Chip (RF-SoC) 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 RF-System-on-a-Chip (RF-SoC).

Chapter 14 and 15, to describe RF-System-on-a-Chip (RF-SoC) sales channel, distributors, customers, research findings and conclusion.

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