

Global Frequency Conversion IC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6F8435CF697EN.html>

Date: June 2026

Pages: 126

Price: US\$ 3,480.00 (Single User License)

ID: G6F8435CF697EN

Abstracts

According to our (Global Info Research) latest study, the global Frequency Conversion IC market size was valued at US\$ 2162 million in 2025 and is forecast to a readjusted size of US\$ 4204 million by 2032 with a CAGR of 10.0% during review period.

A frequency conversion IC refers to an integrated circuit designed to perform the frequency up-conversion or down-conversion of electrical signals; in English, these are typically referred to as Frequency Conversion ICs, RF Mixer ICs, or Up/Down Converter ICs. Their core function?facilitated by circuits such as mixers, oscillators, local oscillator (LO) inputs, filters, amplifiers, and I/Q modulators/demodulators?is to mix an input signal with a local oscillator signal. This process converts baseband or intermediate frequency (IF) signals into the radio frequency (RF) or microwave bands, or conversely, converts RF or microwave signals into IF or baseband signals. These chips are widely deployed in wireless communication systems, 5G base stations, satellite communications, radar systems, electronic warfare, broadcasting and television equipment, test and measurement instruments, IoT terminals, and RF transceiver systems, serving as critical components within RF front-ends and communication transceiver chains.

The upstream segment of the frequency conversion IC industry chain primarily encompasses EDA tools, RF/analog IP cores, semiconductor materials, process platforms (including silicon-based CMOS, SiGe, GaAs, GaN, and SOI), wafer foundries, lithography masks, packaging substrates, ceramic packages, test probes, and RF test equipment. The midstream segment consists of enterprises engaged in the design, manufacturing, and packaging/testing of frequency conversion chips; their product portfolio includes RF mixer ICs, upconverter ICs, downconverter ICs, I/Q

modulators/demodulators, frequency synthesizers, PLLs, LO amplifiers, and integrated RF transceiver chips. The downstream segment focuses on applications within 5G base stations, satellite communications, radar systems, electronic warfare, test and measurement, broadcasting and television, IoT terminals, wireless communication modules, and military communication systems. The gross margin for frequency conversion chips stands at approximately 45%.

In 2025, the average price of frequency conversion IC is projected to be \$15 per unit, with a sales volume of 140.06 million units and a total production capacity of 200 million units.

The market for frequency conversion IC is expected to maintain relatively stable growth in the future, driven primarily by advancements in 5G/6G communications, satellite internet, phased array radar, millimeter-wave radar, electronic warfare, test and measurement equipment, and upgrades to broadband wireless communication devices. As system frequency bands evolve toward higher frequencies, wider bandwidths, and multi-channel architectures, downstream customers are placing increasingly stringent demands on frequency conversion chips regarding low noise, high linearity, low phase noise, high isolation, miniaturization, and high integration. Consequently, traditional discrete mixers are evolving toward integrated Up/Down Converters, I/Q modulators/demodulators, broadband MMICs, and RF SoCs. In the future, the focal point of market competition will extend beyond the performance of individual chips to encompass process platforms, packaging and testing capabilities, RF system design expertise, domestic substitution capabilities, and the ability to engage in collaborative development with end-system manufacturers. Particularly within the fields of satellite communications, military radar, and millimeter-wave applications, manufacturers possessing advanced high-frequency design capabilities, robust reliability verification processes, and the capacity for small-batch customization will hold a distinct competitive advantage.

This report is a detailed and comprehensive analysis for global Frequency Conversion IC 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 Frequency Conversion IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Frequency Conversion IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Frequency Conversion IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Frequency Conversion IC market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (US\$/Pcs), 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 Frequency Conversion IC

- 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 Frequency Conversion IC 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 Analog Devices, Qorvo, Skyworks, Movandi, MACOM, Mobix Labs, pSemi, Texas Instruments, Anokiwave, Mini-Circuits, etc.

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

Market Segmentation

Frequency Conversion IC 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

Microwave Type (6-40 GHz)

Millimeter-Wave Type (>40 GHz)

Market segment by Integration Level

Upconverter IC

Downconverter IC

Market segment by Noise Figure

Low-Noise Type

Standard-Noise Type

Market segment by Application

Consumer Electronics

Telecom & Networking

Automotive Electronics

Industrial Control

Medical

Major players covered

Analog Devices

Qorvo

Skyworks

Movandi

MACOM

Mobix Labs

pSemi

Texas Instruments

Anokiwave

Mini-Circuits

NXP Semiconductors

Xiamen KTD Electronics

Chengdu Huaguang Ruixin Micro-Electronic

Agilic (Tianjin) Technologies

Renesas Electronics

Nisshinbo Micro Devices

Sivers Semiconductors

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 Frequency Conversion IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Frequency Conversion IC, with price, sales quantity, revenue, and global market share of Frequency Conversion IC from 2021 to 2026.

Chapter 3, the Frequency Conversion IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Frequency Conversion IC 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 Frequency Conversion IC 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 Frequency Conversion IC.

Chapter 14 and 15, to describe Frequency Conversion IC sales channel, distributors, customers, research findings and conclusion.

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