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Radio Frequency Integrated Circuit (RFIC) Market Research Report - Global Forecast till 2032

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Description:

Global Radio Frequency Integrated Circuit Market Overview:

Radio Frequency Integrated Circuit Market Size was valued at USD 5.1 Billion in 2022. The Radio Frequency Integrated Circuit market industry is projected to grow from USD 5.92 Billion in 2023 to USD 19.39 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 16.00% during the forecast period (2023 - 2032). Therising popularity of online IT certification programs and the increasing acceptance of IoT solutions are the key market drivers enhancing market growth.

Global Radio Frequency Integrated Circuit Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Radio Frequency Integrated Circuit Market Trends

Growing expansion of 5G wireless networks is driving the market growth

Market CAGR for radio frequency integrated circuits is driven by the need for RFIC is the growing adoption of next-generation wireless networks like Long-Term Evolution (LTE) and 5G. The increasing popularity of 4G LTE networks around the world has prompted the semiconductor and electrical component industries to develop cutting-edge RFICs for use in their products. As more and more people acquire portable electronic devices, including laptops, desktop computers, mobile phones, and data communication systems, the demand for RFIC is expected to skyrocket. Because of the crucial function RFICs play in boosting efficiency and high-frequency rectification, the number of communication devices is constantly growing. Demand for radio frequency integrated circuits is expected to rise due to the issues mentioned above in the future.

Additionally, the rising demand for the internet has prompted providers all around the world to upgrade their networks to better speeds and wider bandwidths. The RFIC market is benefiting from the expansion of the wireless communication industry. Wireless technologies are becoming increasingly popular in the healthcare business, and they play an important role in the efficient flow of information. An increasing number of emerging uses for high-performance RF integrated circuits. Internet of Things (IoT) devices, self-driving cars, and other similar innovations are only a few examples. Therefore, the increasing prevalence of radio frequency integrated circuits is fueling the expansion of the international market.

For instance, Semtech Corporation, a provider of high-performance semiconductors, IoT solutions, and Cloud connection, recently announced the introduction of a ground-breaking IC developed expressly for 5G mobile devices. By detecting whether a person is nearby, Semtech's PerSe technology enables sophisticated RF management of final products like cell phones. As a result, the demand for radio frequency integrated circuits is predicted to grow throughout the forecasted time due to the rising demand for wireless technology. Thus, the driving factor is the radio frequency integrated circuit market revenue.

Radio Frequency Integrated Circuit Market Segment Insights:

Radio Frequency Integrated Circuit Application Insights

The Radio Frequency Integrated Circuit Market segmentation, based on application, includes power amplifiers, transceivers, wireless USB, Bluetooth, Wi-Fi, Wi-max, ZigBee, GPS, and NFC. In 2022, the transceivers segment led the Radio Frequency Integrated Circuit market in revenue due to the growing demand for compact multichip packaging for small electrical devices. Applications for

transceivers include broadcast radio and television, as well as telecommunications.

Radio Frequency Integrated Circuit Vertical Insights

The Radio Frequency Integrated Circuit Market segmentation, based on vertical, includes electronics, automotive, and government. The automotive industry is anticipated to grow at a CAGR of 16.00% over the projected period, making up the largest market share because smart automobiles, driverless cars, and linked cars are increasingly in demand. As a result, the market for RFICs is expanding thanks to the autonomous car industry, and more people are using smartphones, the internet is becoming more widely used, and more connected gadgets are being used.

Figure 1: Radio Frequency Integrated Circuit Market by Vertical, 2022 & 2032 (USD Billion)

Radio Frequency Integrated Circuit Market by Vertical, 2022 & 2032 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Radio Frequency Integrated Circuit Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American radio frequency integrated circuit market will dominate because of the increasing demand for high-frequency, high-bandwidth wireless communication. Different RFIC producers in the United States are concentrating on securing contracts with S&T organizations to meet the rising demand for sophisticated RFIC features.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Radio Frequency Integrated Circuit Market SHARE BY REGION 2022 (USD Billion)

Radio Frequency Integrated Circuit Market SHARE BY REGION 2022 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe's radio frequency integrated circuit market accounts for the second-largest market share because the automotive business is growing, and fast urbanization and rising incomes in developing countries are driving up demand. Further, the German radio frequency integrated circuit market held the largest market share, and the UK radio frequency integrated circuit market was the fastest-growing market in the European region.

The Asia-Pacific radio frequency integrated circuit market is expected to grow at the fastest CAGR from 2023 to 2032 because of rising disposable income, increasing Internet-enabled consumer electronics, and the development of related technologies. Moreover, China's radio frequency integrated circuit market held the largest market share, and the Indian radio frequency integrated circuit market was the fastest-rising market in the Asia-Pacific region.

Radio Frequency Integrated Circuit Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the radio frequency integrated circuit market grow even more. There are some strategies for action that market participants are implementing to increase their presence around the world's global footprint, with important market developments including new product launches, contractual agreements and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, the radio frequency integrated circuit industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturer use in the global radio frequency integrated circuit industry to benefit clients and increase the market sector. In recent years, the radio frequency integrated circuit industry has offered some of the most significant technological advancements. Major players in the radio frequency integrated circuit market, including Qualcomm Technologies Inc. (USA), Silicon Laboratories (USA), Cree Inc. (USA), Infineon Technologies AG (Germany), Qorva Inc. (USA), STMicroelectronics (Switzerland), Peak RF (UK), OctoTech Inc. (USA), Analog Devices Inc. (USA), Skyworks Solutions Inc. (USA), Broadcom Inc. (USA), Semiconductor (USA), and others are attempting to grow market demand by investing in research and development operations.

Silicon Labs is the industry's top supplier of intelligent, secure wireless technologies for a connected world. Due to our integrated hardware and software platform, user-friendly development tools, lively ecosystem, and solid support, we are a wonderful long-term partner in developing cutting-edge industrial, commercial, home, and life applications. We make it simple for developers to tackle challenging wireless challenges throughout the entire product lifecycle and speed up time to market with cutting-edge solutions that transform industries, strengthen economies, and improve people's lives. We work with clients to produce linked goods that quantitatively address issues with global development, such as those relating to energy efficiency, economic growth, improved health, cutting-edge infrastructure, sustainable cities, and ethical production, by focusing on operational effectiveness and sustainability. In May 2022, Silicon Labs introduced a new Bluetooth location services solution that takes advantage of precise, low-power Bluetooth devices to simplify Angle of

Arrival (AoA) and Angle of Departure (AoD) location services. This revolutionary platform combines hardware and software to achieve industry-leading energy efficiency. It uses cutting-edge software that can track assets, improve indoor navigation, and, more precisely, locate tags with sub-meter accuracy. It achieves this by fusing BG22 SiP modules and SoCs from Silicon Labs.

Qualcomm has made it possible for everyone and everything to be intelligently connected. With the help of our unified technological roadmap, we can effectively scale the technologies that led to the mobile revolution, including enhanced connection, high-performance, low-power computing, ondevice intelligence, and more, to the forthcoming generation of connected smart devices across industries. The cloud-edge convergence made possible by Qualcomm's innovations and our Snapdragon platform family will speed up the digital economy and profoundly change how people interact with their environment. In June 2023, Qualcomm Technologies now provides Android app developers with Android on Snapdragon, a new solution. This brand-new website will advertise the most advanced, top-tier Snapdragon technology and offer instructions on how to include it in Android apps.

Key Companies in the Radio Frequency Integrated Circuit Market include

- Qualcomm Technologies Inc. (USA)
- Silicon Laboratories (USA)
- Cree Inc. (USA)
- Infineon Technologies AG (Germany)
- Qorva Inc. (USA)
- STMicroelectronics (Switzerland)
- Peak RF (UK)
- OctoTech Inc. (USA)
- Analog Devices Inc. (USA)
- Skyworks Solutions Inc. (USA)
- Broadcom Inc. (USA)
- Semiconductor (USA)

Radio Frequency Integrated Circuit Industry Developments

April 2023: Qualcomm Technologies, Inc. introduces new Snapdragon Spaces and adds a groundbreaking function called Dual Render Fusion, enabling programmers to incorporate head-worn augmented reality experiences into current smartphone applications easily.

May 2023: Silicon Labs developed two new integrated circuit families designed for the smallest form factor IoT devices: the BB50 microcontroller unit (MCU) and the xG27 family of Bluetooth systems on chips (SoCs).

Radio Frequency Integrated Circuit Market Segmentation:

Radio Frequency Integrated Circuit Application Outlook

Power Amplifier Transceiver Wireless USB Bluetooth Wi-Fi Wi-max ZigBee GPS NFC

Radio Frequency Integrated Circuit Vertical Outlook

- Electronics
- Automotive
- Government

Radio Frequency Integrated Circuit Regional Outlook

- North America
 - US
 - Canada
- Europe

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- Germany
- France
- UK
- Italy
- Spain
- Rest of Europe

- Asia-Pacific China Japan India Australia South Korea Australia Rest of Asia-Pacific
 - Middle East
 - Africa
 - Latin America

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