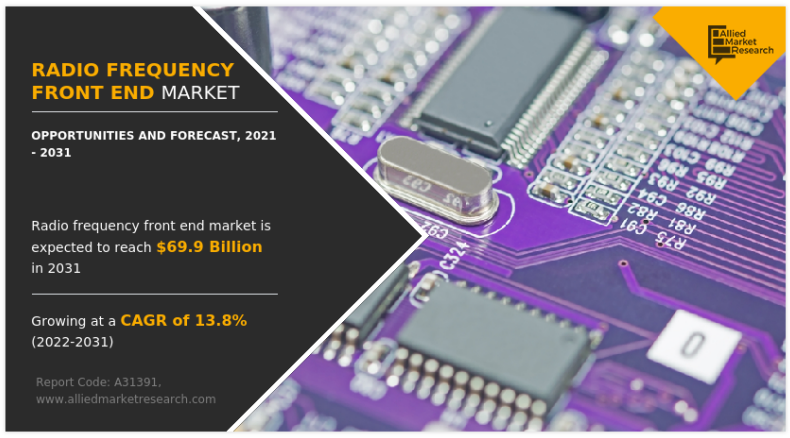
RF Front End Market Surpass $69.9 billion by 2031, At 13.8% CAGR | Growth Statistics

WILMINGTON, DELAWARE , UNITED STATES, February 20, 2024 /EINPresswire.com/ -- Radio Frequency (RF) Front End Market Size, Share, Competitive Landscape and Trend Analysis Report by Type (RF Filters, RF Power Amplifiers, RF Switches, Others), by End-use Industry (Consumer Electronics, Automotive Systems, Wireless Networks, Military, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031



Radio Frequency Front End Market

The radio frequency front end market was valued at $18.8 billion in 2021, and is estimated to reach $69.9 billion by 2031, growing at a CAGR of 13.8% from 2022 to 2031. The Asia-Pacific market is likely to show the fastest CAGR of 14.9% during the forecast period.

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Increased emphasis on designing RF modules or RF components capable of providing faster data transmission, significant product development of RF-SOI front-end modules, growing consumer penetration of smart devices for health, fitness, or entertainment purposes, and others are factors contributing to this market growth. UltraCMOS 13 was announced in June 2019 by pSemi Corporation, a Murata company focused on semiconductor integration. This advancement represented the next generation of proprietary RFSOI technology produced in high-volume 300mm foundries. This allows for improved performance and integration of RF front-end components. According to a GFU survey, the German market saw sales of about 7.4 million wearables in 2021, with 9% growth over the previous year. The survey also revealed that, on average, consumers paid more than €180 on a device, an increase of 10% from 2020.

The fabrication process for these RF modules is relatively complex due to an increase in the number of bands or frequencies, variations in multiplexity methods, use of smaller wafer sizes, and so on. As a result, skilled professionals are required to design these components with

extreme precision and accuracy. This trend lengthens the manufacturing time. However, silicon-germanium is widely used for facilitating integration with front-end modules or designing RF front-end circuits with lower complexities when compared to other substrate materials. All these factors are anticipated to hinder the radio frequency front end market size.

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The demand for broadband services and faster mobile internet connectivity is propelling technological advances in the wireless and cellular mobile communication sectors, including the deployment and development stages of 5G networks. Furthermore, the 5G network provides greater coverage and lower latency than previous generations, which is similar to the new generation's internet connectivity. Radio frequency components will become more common as the introduction of 5G networks in wireless communication necessitates the use of low-frequency and tall antenna macro cell sites for greater area coverage.

The global radio frequency front end market share is segmented on the basis of type, end user, and region. By type, it is classified into RF filters, RF power amplifiers, RF switches, and others. By end user, it is divided into consumer electronics, automotive systems, wireless networks, military, and others. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Based on type, the RF filters segment contributed to the largest share of nearly two-fifths of the global radio frequency front end market in 2021, and is expected to maintain its dominance during the forecast period. The same segment is projected to witness the fastest CAGR of 14.7% from 2022 to 2031. This is because RF filters are becoming an increasingly significant component of smartphones, which must tune into a dozen or more frequency bands. The report also analyzes RF power amplifiers, RF switches, and others segment.

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The key players profiled in the radio frequency front end market analysis report include Broadcom Inc, Infineon Technologies AG., Murata Manufacturing Co. Ltd.., NXP Semiconductors N.V., Qorvo Inc.., Skyworks Solutions, Inc.., STMicroelectronics N.V., Taiyo Yuden Co., Murata Manufacturing Co., Ltd., and Analog Devices, Inc.

The report offers a comprehensive analysis of the global radio frequency front end market trends by thoroughly studying different aspects of the market including major segments, market statistics, market dynamics, regional market outlook, investment opportunities, and top players working towards the growth of the market. The report also highlights the present scenario and upcoming trends & developments that are contributing toward the growth of the market. Moreover, restraints and challenges that hold power to obstruct the market growth are also profiled in the report along with the Porter’s five forces analysis of the market to elucidate

factors such as competitive landscape, bargaining power of buyers and suppliers, threats of new players, and emergence of substitutes in the market.

Key Findings of the Study
• Based on type, the RF filters sub-segment emerged as the global leader in 2021 and is anticipated to be the fastest growing during the forecast period
• Based on end user, the consumer electronics sub-segment emerged as the global leader in 2021 and the automotive systems sub-segment is predicted to witness the fastest growth in the upcoming years
• Based on region, the Asia-Pacific market registered the highest market share in 2021 and is projected to maintain its position during the forecast period

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