

RF Semiconductor Market Growth Accelerating at a Rapid Pace due to Innovative Strategies by 2031

Asia-Pacific garnered the highest share, holding more than two-fifths of the global market revenue, and is projected to retain its dominance by 2031.

WILMINGTON, DELAWARE , UNITED STATES, March 27, 2024 /EINPresswire.com/ -- According to a

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Rapid growth of 5G technology and increase in utilization of IoT technology across the world drive the growth of the global RF semiconductor market.”

Allied Market Research

new report published by Allied Market Research, titled, the [RF semiconductor market](#) was valued at \$18.9 billion in 2021, and is estimated to reach \$39.6 billion by 2031, growing at a CAGR of 8.4% from 2022 to 2031. The rapid development of 5G technology and the rapid adoption of IoT technology has increased the need for robust network capacity are some of the factors driving the RF Semiconductor market.

RF Power Semiconductors stands for Radio Frequency

Power Semiconductors. These electronic devices are used for cellular and mobile wireless communications. There are numerous applications such as military radar, air and maritime traffic control systems. Various materials such as silicon, gallium arsenide, and silicon germanium are used to manufacture RF power semiconductors.

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The growth of the RF semiconductor market is fueled by the massive adoption of AI technology. AI enhances business by improving the customer experience, enabling predictive maintenance and improving network reliability. By integrating effective machine learning algorithms, the company can reduce the design complexity of RF semiconductor devices and maximize RF parameters such as channel bandwidth, spectrum monitoring and antenna sensitivity. And while AI unlocks new capabilities for military applications, wireless applications in spectrum acquisition, communication systems, signal classification and detection in adverse spectrum conditions will also benefit greatly.

Robust network capacity has become essential with the proliferation of IoT technologies. IoT

helps build a connected framework of physical things, such as smart devices, through secure networks using RF technology. For example, RF transceivers are used in smart home devices to connect to the internet via Bluetooth and Wi-Fi. Moreover, with the increasing number of smart city projects in various regions of the world, the demand for smart devices has increased significantly. In recent years, players in the RF semiconductor industry have been focused on product innovation, to stay ahead of their competitors. For instance: In January 2020, Qorvo Inc. launched the Qorvo QPG7015M IoT transceiver, which enables the simultaneous operation of all low-power, open-standard smart home technologies. Additionally, it is targeted at gateway IoT solutions that require the full-range capability of Bluetooth low energy (BLE), Zigbee, and Thread protocols, with +20 dBm (decibel per milliwatt) outputs.

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The RF Semiconductor market is segmented on the basis of product type, application, and region.

By product type, the RF filters segment held the highest share in 2021, accounting for more than one-fourth of the global RF semiconductor market revenue, and is projected to maintain its dominance by 2031. The same segment would also showcase the fastest CAGR of 9.3% throughout the forecast period. This is because radio receivers use RF filters, a vital element of wireless technology, to transmit only the appropriate frequencies for entertainment while excluding other undesirable frequency bands. RF filters are made to work well in the megahertz and gigahertz frequency ranges. It is frequently used in broadcasting equipment (radio, wireless, television, etc.) for its performance characteristics.

By application, the consumer electronics segment accounted for more than one-third of the global RF semiconductor market revenue in 2021 and is projected to rule the roost by 2031. One of the major markets for RF semiconductors is the consumer electronics sector. Consumer electronics include Wi-Fi gadgets as well as communication devices like laptops, tablets, and smartphones. Increasing use of smartphones and rise in demand for high-speed data communication fuel the segment growth. The automotive segment, on the other hand, displays the fastest CAGR of 8.86% throughout the forecast period. This is attributed to the fact that vehicle-to-infrastructure (V2X) and vehicle-to-vehicle (V2V) communication are now expected to become a reality.

By region, Asia-Pacific garnered the highest share in 2021, holding more than two-fifths of the global RF semiconductor market revenue in 2021, and is projected to retain its dominance by 2031. The same region would also portray the fastest CAGR of 8.62% during the forecast period. Increasing adoption of LTE technology and rising demand for RF semiconductors from consumers are expected to boost the market in the Asia-Pacific region.

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The [RF Semiconductor market key players](#) profiled in the report include Analog Devices Inc., Microchip Technology Inc., MACOM Technology, NXP Semiconductors, Qorvo, Inc., Qualcomm Incorporated, Texas Instruments Inc., Toshiba Electronic Devices & Storage Corporation, TDK Electronics, and Teledyne Technologies Inc. The market players have adopted various strategies, such as product launches, collaborations & partnerships, joint ventures, and acquisitions to expand their foothold in the RF Semiconductor industry.

RF Semiconductor Market by Product Type

- In 2021, by product type, the RF filters segment was the highest revenue contributor to the market, with \$5,372.82 million in 2021, and is expected to follow the same trend during the forecast period.
- By application, the consumer electronics segment was the highest revenue contributor to the market, with \$6,436.63 million in 2021.
- Asia-Pacific contributed the major share in the RF Semiconductor market, accounting for \$7,937.05 million in 2021, and is estimated to reach \$17,059.52 million by 2031, with a CAGR of 8.62%.

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