

Europe RF Power Amplifier Market Forecast to 2031 - Regional Analysis - by Frequency (Less than 10 GHz, 11-20 GHz, 21-30 GHz, and Above 30 GHz), Technology (Gallium Arsenide (GaaS), Gallium Nitride (GaN), Silicon Germanium (SiGe), and Others), and Application (Consumer Electronics, Aerospace and Defense, Automotive, Medical, and Others)

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Abstracts

The Europe RF power amplifier market was valued at US\$ 1,285.04 million in 2023 and is anticipated to reach US\$ 3,051.45 million by 2030; it is estimated to register a CAGR of 11.4% from 2023 to 2031.

Increased Demand in Consumer Electronics Drives Europe RF Power Amplifier Market

The surge in consumer electronics usage, including smartphones, tablets, laptops, and other personal devices, has contributed to the rising demand for RF power amplifiers. These devices rely on RF power amplifiers to enhance their performance by converting low-power radio-frequency signals into higher-power signals as the consumer electronics market continues to expand, driven by various factors such as rising disposable incomes, digitization, and the increasing prevalence of personal electronic devices. According to GSMA's annual State of Mobile Internet Connectivity Report 2023 (SOMIC), in October 2023, over half (54%) of the global population—approximately 4.3 billion people—owned a smartphone. The number of smartphones is increasing significantly across the globe; for example, according to Ericsson & The Radicati Group, in 2020, the number of smartphones was recorded to be 5.75 billion. In 2024, the number of smartphones has grown to 6.93 billion, and by 2025, it is expected to reach 7.15 billion.

Advancements in RF power amplifier technologies have led to the development of amplifiers with broader frequency ranges and compact sizes; this makes them suitable for various applications in consumer electronics. Also, a surge in demand for consumer electronics, as well as the need for improved performance, is boosting the demand for RF power amplifiers. The growing use of wireless audio systems and the availability of affordable wireless speakers are expected to boost the demand for audio systems, including RF power amplifiers. RF power amplifiers play a key role in driving transmitter antennas, which are used not only for voice and data communication but also for weather sensing and radar systems. They are widely used in wireless telecommunication networks, particularly in mobile networks such as 2G, 3G, and 4G. Thus, the increased demand in consumer electronics for RF power amplifiers drives the market.

Moreover, according to forecast figures by Ericsson, in 2024, the global population of smartphone users stands at 4.88 billion, indicating that approximately 60.42% of the world's population possesses a smartphone. The figure below represents the forecasted number of smartphone users.

Europe RF Power Amplifier Market Overview

Established players in the European RF power amplifier market continuously invest in research and development (R&D) to develop new and innovative products. These companies focus on developing cost-effective and efficient RF power amplifiers. Government funding for network infrastructure and related components is also expected to propel the demand for RF power amplifiers in the coming years. September 2023, the UK government's Department for Science, Innovation and Technology (DSIT) announced the recipients of ?88 million (US\$ 108.5 million) fund amount for the development of open network solutions, including 4G- and 5G-based OpenRAN on mobile networks, among other technologies. This funding was announced with an aim to support the adoption of open and interoperable technology in the UK. The recipients of these funds are announced based on the outcome of the Open Networks Ecosystem competition, a part of the government's Open Networks R&D Fund. The competition encourages organizations to develop software and hardware products that enable enhanced development and adoption of open and interoperable technology. It also provides opportunities for demonstrations of OpenRAN technologies in high-demand density environments. Such government initiatives propel the demand for RF power amplifiers in European countries.

Europe RF Power Amplifier Market Revenue and Forecast to 2031 (US\$ Million)

Europe RF Power Amplifier Market Segmentation

The Europe RF power amplifier market is categorized into frequency, technology, application, and country.

Based on frequency, the Europe RF power amplifier market is segmented into less than 10 GHz, 11-20 GHz, 21-30 GHz, and above 30 GHz. The less than 10 GHz segment held the largest market share in 2023.

In terms of technology, the Europe RF power amplifier market is segmented into gallium arsenide, gallium nitride, silicon germanium, and others. The gallium arsenide segment held the largest market share in 2023.

By application, the Europe RF power amplifier market is segmented into consumer electronics, aerospace and defense, automotive, medical, and others. The consumer electronics segment held the largest market share in 2023.

By country, the Europe RF power amplifier market is segmented into Germany, the UK, France, Russia, Italy, and the Rest of Europe. The Rest of Europe dominated the Europe RF power amplifier market share in 2023.

Qorvo Inc, NXP Semiconductors NV, Qualcomm Inc, Infineon Technologies AG, Broadcom Inc, Mitsubishi Electric Corp, STMicroelectronics NV, Skyworks Solutions Inc, Texas Instruments Inc, and Analog Devices Inc. are some of the leading companies operating in the Europe RF power amplifier market.

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