

Asia Pacific 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)

<https://marketpublishers.com/r/A6314EAF6D83EN.html>

Date: October 2024

Pages: 115

Price: US\$ 3,550.00 (Single User License)

ID: A6314EAF6D83EN

Abstracts

The Asia Pacific RF power amplifier market was valued at US\$ 2,492.00 million in 2023 and is anticipated to reach US\$ 6,609.35 million by 2030; it is estimated to register a CAGR of 13.0% from 2023 to 2031.

Surge in Penetration of IoT Boosts Asia Pacific RF Power Amplifier Market

The Internet of Things (IoT) is the network of connected devices that communicate and exchange data with each other. These devices include sensors, actuators, and other smart devices that are embedded with wireless connectivity. The proliferation of IoT devices and applications has led to an increased demand for RF power amplifiers. RF power amplifiers play a vital role in enabling wireless communication between IoT devices. They are responsible for amplifying the signals transmitted by these devices, ensuring reliable and efficient communication over long distances. With the continuous expansion of high-speed internet technologies such as fiber technologies and wireless broadband, the worldwide network has witnessed substantial improvements in both speed and bandwidth. These mature technologies have significantly supported the widespread adoption of the Internet of Things (IoT). Also, there is an increase in IoT devices to make operations more efficient and deliver enhanced customer service. According to Symmetry Electronics, in 2023, ~14.76 billion connected IoT devices were

registered. Thus, the increasing penetration of the Internet of Things (IoT) is anticipated to create a significant opportunity for the RF power amplifiers market players during the forecast period.

Asia Pacific RF Power Amplifier Market Overview

China holds the largest share in the RF power amplifier market in Asia Pacific, while India is expected to be the fastest-growing market in the region during the forecast period. The presence of prominent semiconductor industries in countries such as China, Japan, and India contribute to the growth of the power amplifier market in Asia Pacific. Additionally, ongoing activities for the development of technologically advanced RF power amplifiers, along with the increasing investment in production of RF power amplifiers, create lucrative opportunities for market players in the region. The use of smartphones in Asia Pacific is growing rapidly. According to the Mobile Economy Asia Pacific 2023 report, released in June 2023 at an event organized by the GSMA and Singtel in Singapore, mobile subscribers are likely to increase by 400 million during 2022-2030, reaching a total of 2.11 billion. The share of smartphone users is expected to reach 94% by 2030, up by 18% from 2022; this jump can be ascribed to lower device costs and better digital literacy. In modern mobile devices, a complex circuit is responsible for transforming information from near-zero frequency band signals that are used to transmit information and data through radio signals for delivery over the air. RF power amplifiers play an important role in smartphones. Thus, the growing adoption of smartphones propels the RF power amplifier market in Asia Pacific.

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

Asia Pacific RF Power Amplifier Market Segmentation

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

Based on frequency, the Asia Pacific 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 Asia Pacific 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 Asia Pacific 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 Asia Pacific RF power amplifier market is segmented into China, Japan, South Korea, India, Australia and the Rest of Asia Pacific. China dominated the Asia Pacific 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 Asia Pacific RF power amplifier market.

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