

# Global RF Power Semiconductor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global RF Power Semiconductor market size was valued at USD 19260 million in 2023 and is forecast to a readjusted size of USD 33720 million by 2030 with a CAGR of 8.3% during review period.

RF Power Semiconductor cater to the power management requirements of several industries such as the consumer electronics and automotive. The RF power semiconductor devices are used in application areas such as automotive, aerospace, military, energy, medical, consumer, and telecommunication and data communication. RF power semiconductors are integral parts of all base stations for cellular wireless infrastructure, representing an expensive component sub-assembly in modern wireless infrastructure equipment. Efficiency, linearity, physical size, and reliability are among the principal concerns. As prices become more competitive, innovative techniques are used to reduce the cost of the component part while maintaining performance.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales

in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.93% year-on-year.

The Global Info Research report includes an overview of the development of the RF Power Semiconductor industry chain, the market status of Consumer (RF Power Amplifiers, RF Passives), Aerospace & Defense (RF Power Amplifiers, RF Passives), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of RF Power Semiconductor.

Regionally, the report analyzes the RF Power Semiconductor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global RF Power Semiconductor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the RF Power Semiconductor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the RF Power Semiconductor industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., RF Power Amplifiers, RF Passives).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the RF Power Semiconductor market.

**Regional Analysis:** The report involves examining the RF Power Semiconductor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the RF Power Semiconductor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to RF Power Semiconductor:

**Company Analysis:** Report covers individual RF Power Semiconductor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards RF Power Semiconductor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer, Aerospace & Defense).

**Technology Analysis:** Report covers specific technologies relevant to RF Power Semiconductor. It assesses the current state, advancements, and potential future developments in RF Power Semiconductor areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the RF Power Semiconductor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

RF Power Semiconductor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

#### RF Power Amplifiers

RF Passives

RF Duplexers

RF Switches

Other RF Devices

### Market segment by Application

Consumer

Aerospace & Defense

Automotive

Medical

Telecommunication and Data Communication

### Major players covered

Infineon Technologies

Ampleon

Qorvo

Wolfspeed (Cree)

Ampleon Netherlands

Broadcom

EPC

Fujitsu Semiconductor

Integra Technologies

MACOM

Microchip Technology

RFHIC

Sumitomo Electric Device Innovations

Toshiba

WIN Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe RF Power Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of RF Power Semiconductor, with price, sales, revenue and global market share of RF Power Semiconductor from 2019 to 2024.

Chapter 3, the RF Power Semiconductor competitive situation, sales quantity, revenue

and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the RF Power Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and RF Power Semiconductor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of RF Power Semiconductor.

Chapter 14 and 15, to describe RF Power Semiconductor sales channel, distributors, customers, research findings and conclusion.

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