

# **Radio Frequency Integrated Circuit Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Application (Power Amplifier, Transceiver, Wireless USB, Bluetooth, Wi-Fi, Wi-max, ZigBee, GPS, and NFC), By Vertical (Electronics, Automotive, and Government), By Region and Competition, 2019-2029F**

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## **Abstracts**

Global Radio Frequency Integrated Circuit Market was valued at USD 48.9 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 7.2% through 2029. The Global Radio Frequency Integrated Circuit (RFIC) Market is witnessing rapid growth driven by the growing demand for wireless communication technologies and the widespread adoption of smart devices. RFICs, crucial components in wireless communication systems, facilitate the transmission and reception of radio frequency signals. The market is experiencing increased demand due to the widespread deployment of 5G networks, Internet of Things (IoT) devices, and advancements in mobile communication technologies. These factors are driving the need for highly efficient and compact RFICs capable of managing complex communication protocols. Additionally, the emergence of technologies like autonomous vehicles and smart home devices is further boosting the demand for RFICs. Market leaders are investing significantly in research and development to innovate new RFIC solutions tailored to the evolving needs of the telecommunications, automotive, and consumer electronics industries. As global connectivity continues to expand, the Global RFIC Market is poised for sustained growth, reflecting its crucial role in enabling seamless wireless communication across diverse applications.

## **Key Market Drivers**

## Proliferation of 5G Networks

One of the primary drivers fueling the Global Radio Frequency Integrated Circuit (RFIC) Market is the widespread proliferation of 5G networks. The rollout of 5G technology has revolutionized wireless communication, offering significantly faster data speeds, lower latency, and increased connectivity. RFICs are integral components of 5G infrastructure, enabling the transmission and reception of high-frequency signals essential for the deployment of 5G networks. The demand for RFICs has surged as telecommunications companies globally invest in upgrading their networks to 5G standards. The higher data rates and enhanced performance of 5G networks necessitate advanced RFIC solutions capable of handling complex modulation schemes and operating at millimeter-wave frequencies. As 5G technology continues to expand its footprint, the RFIC market experiences substantial growth, providing the necessary hardware for the seamless functioning of 5G networks, consequently driving innovation and adoption in various sectors.

## Internet of Things (IoT) Revolution

The rapid expansion of the Internet of Things (IoT) ecosystem serves as a significant driver propelling the Global RFIC Market. IoT devices, spanning from smart home appliances to industrial sensors, rely on robust wireless communication capabilities for seamless operation. RFICs are essential components enabling connectivity among these devices, facilitating data collection and communication in various environments. As IoT adoption grows among businesses and consumers, there is a heightened demand for specialized RFICs tailored for IoT applications. These RFICs must prioritize power efficiency, compactness, and support for diverse communication protocols to meet the needs of IoT devices. The increasing prevalence of IoT devices across industries like healthcare, agriculture, and logistics further fuels demand for RFICs, fostering market growth and spurring innovation in IoT-ready integrated circuits.

## Rise of Smart Devices and Consumer Electronics

The proliferation of smart devices and consumer electronics represents a vital driver for the Global RFIC Market. Smartphones, smart TVs, wearables, and smart home devices have become ubiquitous in today's digital age. These devices rely on RFICs to enable wireless communication functionalities, such as cellular connectivity, Wi-Fi, Bluetooth, and NFC. The increasing demand for feature-rich, high-performance smart devices drives the need for advanced RFICs capable of supporting multiple wireless protocols.

The continuous evolution of consumer electronics, including the emergence of foldable smartphones, IoT-enabled gadgets, and immersive augmented reality (AR) and virtual reality (VR) devices, necessitates RFICs with enhanced capabilities. Manufacturers are investing in research and development to produce RFICs that offer higher integration, lower power consumption, and superior performance, catering to the demands of the dynamic consumer electronics market and fueling innovation in the RFIC industry.

### Growing Automotive Connectivity

The growing trend towards connected vehicles and autonomous driving technologies is a significant driver accelerating the Global RFIC Market. Modern automobiles incorporate a multitude of RFICs to enable features such as advanced driver-assistance systems (ADAS), vehicle-to-everything (V2X) communication, and in-car entertainment systems. RFICs facilitate wireless communication between vehicles, infrastructure, and other connected devices, enhancing road safety and enabling intelligent transportation systems. With the increasing adoption of electric vehicles and the development of self-driving cars, the demand for RFICs in the automotive sector has surged. These RFICs need to be highly reliable, capable of withstanding harsh automotive environments, and compatible with evolving automotive communication standards. As the automotive industry continues its digital transformation, RFICs play a crucial role in shaping the future of connected and autonomous vehicles, driving significant advancements in vehicle connectivity and safety technologies.

### Expansion of Satellite Communication

The expansion of satellite communication systems represents a key driver boosting the Global RFIC Market. Satellite communication plays a vital role in providing global connectivity, supporting applications such as broadband internet access, satellite television, and maritime and aviation communication. RFICs are essential components in satellite communication systems, enabling the transmission and reception of signals between ground stations and satellites in orbit. The demand for satellite communication services has increased significantly, driven by the need for reliable and high-speed internet access in remote and underserved regions, as well as the growing requirements of mobile satellite communication in the aviation and maritime industries. RFICs designed for satellite communication applications must offer high frequency and phase stability, ensuring accurate signal reception and transmission. As satellite communication networks continue to expand and evolve, RFICs remain at the forefront of enabling seamless and efficient satellite-based connectivity solutions, driving growth in the RFIC Market.

## Key Market Challenges

### Increasing Complexity of Communication Standards

One of the significant challenges facing the Global Radio Frequency Integrated Circuit (RFIC) Market is the increasing complexity of communication standards. With the rapid evolution of wireless technologies such as 5G, Wi-Fi 6E, and emerging standards for IoT devices, RFICs must support a diverse array of communication protocols and frequency bands. Each standard comes with its unique modulation schemes, frequency requirements, and power constraints. Designing RFICs that can seamlessly operate across these various standards while meeting the stringent performance criteria poses a formidable challenge. Engineers face the task of developing highly adaptable RFICs capable of supporting multiple standards simultaneously. This challenge demands continuous research and development efforts to ensure RFICs can handle the intricacies of modern communication protocols, balancing the need for flexibility, efficiency, and reliability. As standards continue to evolve, the industry must keep pace with these advancements, necessitating innovative solutions to address the complexity and compatibility issues arising from the diverse communication landscape.

### Power Consumption and Energy Efficiency

Another critical challenge in the Global RFIC Market revolves around power consumption and energy efficiency. As the demand for battery-powered devices and IoT applications increases, power efficiency becomes paramount. RFICs are central components in mobile devices, wearables, and IoT sensors, where preserving battery life is crucial. Achieving optimal power consumption without compromising performance is a delicate balancing act. RFICs need to operate efficiently at low power levels, especially in devices that rely on energy harvesting or compact batteries. Designing circuits that minimize power consumption during both active and idle states while ensuring rapid signal processing is a complex engineering challenge. Energy efficiency is vital in applications like satellite communication and remote sensors, where power resources are limited. Engineers and researchers face the task of innovating new circuit architectures, power management techniques, and energy harvesting solutions to address the growing demand for energy-efficient RFICs in an increasingly battery-sensitive market.

### Thermal Management and Heat Dissipation

Thermal management and heat dissipation pose a significant challenge in the development and deployment of Radio Frequency Integrated Circuits (RFICs). RFICs, especially those used in high-frequency and high-power applications such as 5G base stations and satellite communication systems, generate substantial heat during operation. Excessive heat can degrade the performance of RFICs, leading to signal distortion, reduced efficiency, and, in extreme cases, permanent damage. Effective thermal management solutions are essential to ensure RFICs operate within their specified temperature ranges, maintaining optimal performance and longevity. Engineers grapple with the task of designing RFICs with efficient heat dissipation mechanisms, which might include advanced cooling techniques, heat sinks, or even integrating materials with superior thermal conductivity. Balancing the need for miniaturization with effective heat dissipation solutions presents a significant engineering challenge, demanding innovative approaches to prevent thermal issues and maintain the reliability and stability of RFICs in diverse applications.

## Security and Interference Issues

Security and interference concerns represent a significant challenge in the Global RFIC Market. As wireless communication technologies become ubiquitous, the risk of interference and security breaches escalates. RFICs are vulnerable to various forms of interference, including electromagnetic interference (EMI) and radio frequency interference (RFI), which can disrupt communication signals and compromise data integrity. Ensuring secure communication channels and protecting RFICs from external interference sources are paramount. With the rise of connected devices in IoT applications, the security of data transmission and device authentication becomes a critical concern. RFICs must incorporate robust encryption algorithms and security protocols to safeguard sensitive information from unauthorized access and cyber-attacks. Addressing these security challenges requires a comprehensive approach involving hardware security modules, encryption techniques, and secure communication protocols. Ensuring compatibility and coexistence of different RFICs operating in close proximity, especially in densely populated urban areas, is a multifaceted challenge. Engineers and security experts must collaborate to develop RFICs that can operate securely and efficiently amidst the growing complexity of wireless networks and the potential threats posed by interference and security breaches.

## Key Market Trends

### 5G Network Expansion and Adoption

One of the prominent market trends shaping the Global Radio Frequency Integrated Circuit (RFIC) Market is the rapid expansion and adoption of 5G networks worldwide. As the fifth generation of wireless technology, 5G brings unparalleled data speeds, low latency, and massive device connectivity. This trend has propelled the demand for advanced RFICs, crucial components in 5G infrastructure, enabling the transmission and reception of high-frequency signals essential for the deployment of 5G networks. RFICs are integral to 5G base stations, smartphones, and other connected devices, facilitating high-speed data transfer and supporting emerging technologies such as augmented reality (AR), virtual reality (VR), and autonomous vehicles. The market is witnessing a surge in demand for RFICs capable of handling complex modulation schemes and operating at millimeter-wave frequencies, key requirements for 5G communication. With telecom operators worldwide investing significantly in 5G infrastructure, the RFIC market is experiencing a substantial boost, catering to the evolving demands of the telecommunications sector and driving innovations in high-frequency circuit designs.

#### Internet of Things (IoT) Devices and Connectivity

The proliferation of Internet of Things (IoT) devices and the need for seamless connectivity constitute a significant market trend in the RFIC industry. IoT devices, ranging from smart home appliances and industrial sensors to wearable gadgets, rely on RFICs to enable wireless communication. As IoT applications continue to diversify across sectors such as healthcare, agriculture, and smart cities, the demand for specialized RFICs tailored for IoT devices is on the rise. These RFICs need to be power-efficient, compact, and capable of supporting various communication protocols to accommodate the diverse range of IoT devices. The integration of IoT in industrial automation and smart manufacturing has led to the development of RFICs capable of supporting industrial-grade communication standards. The trend towards a connected ecosystem, where devices communicate seamlessly, fuels the demand for RFICs designed to cater to the unique requirements of IoT applications, positioning the market at the forefront of technological advancements in wireless connectivity.

#### Emergence of Advanced Wireless Standards (Wi-Fi 6E and Beyond)

The emergence of advanced wireless standards, such as Wi-Fi 6E, and ongoing research into future wireless technologies are driving significant trends in the RFIC Market. Wi-Fi 6E, an extension of the Wi-Fi 6 standard, operates in the 6 GHz frequency band, offering wider channels and reduced congestion, resulting in faster and more reliable wireless connections. RFICs designed to support Wi-Fi 6E are essential

for enabling high-speed data transfer and seamless connectivity in environments with a high density of wireless devices, such as airports, stadiums, and urban centers. Beyond Wi-Fi 6E, research and development efforts are underway to explore terahertz communication and other advanced wireless technologies, pushing the boundaries of data rates and communication capabilities. The trend towards these advanced wireless standards propels the demand for RFICs capable of operating at higher frequencies, supporting wider bandwidths, and accommodating the complexities of future communication protocols, driving innovation in the RFIC industry.

### Integration of RFICs in Automotive Applications

The integration of RFICs in automotive applications represents a significant market trend, driven by the increasing adoption of connected vehicles, autonomous driving technologies, and advanced driver-assistance systems (ADAS). RFICs are crucial in automotive communication systems, supporting functionalities such as vehicle-to-vehicle (V2V) communication, vehicle-to-infrastructure (V2I) communication, and in-car connectivity. These RFICs enable intelligent transportation systems, enhancing road safety and facilitating vehicle communication in smart cities. RFICs are instrumental in in-car entertainment systems, providing seamless connectivity for multimedia streaming and infotainment services. As the automotive industry continues its digital transformation, RFICs play a pivotal role in shaping the future of connected and autonomous vehicles, driving significant advancements in vehicle connectivity, safety technologies, and the overall automotive user experience.

### Rise of Smart Home and Consumer Electronics

The rise of smart home technologies and the growing demand for connected consumer electronics devices are key trends influencing the RFIC Market. Smart home applications, including smart lighting, security systems, and home automation, rely on RFICs for wireless connectivity. These RFICs enable smart devices to communicate with each other, allowing users to control and monitor their homes remotely. The demand for RFICs in smart home applications is driven by the convenience and energy efficiency offered by interconnected devices. The integration of RFICs in consumer electronics such as smartphones, smart TVs, and wearables is pervasive. RFICs enable wireless communication protocols like Bluetooth, Wi-Fi, and NFC, enhancing the functionality of these devices. As consumer preferences shift towards connected and intelligent devices, the RFIC Market experiences increased demand for compact, power-efficient, and versatile RFICs capable of supporting diverse communication standards, catering to the evolving landscape of smart home and consumer electronics.

applications.

## Segmental Insights

### Application Insights

The power amplifier segment emerged as the dominant in the Global Radio Frequency Integrated Circuit (RFIC) Market and is expected to maintain its dominance during the forecast period. Power amplifiers are critical components in wireless communication devices, enabling the amplification of radio frequency signals before transmission. They are extensively used in a wide range of applications including smartphones, base stations, and satellite communication systems, among others. The increasing demand for high-speed data transmission and the widespread adoption of 5G technology have significantly bolstered the need for efficient power amplifiers. These amplifiers are essential for ensuring reliable and fast data transfer, making them indispensable in modern wireless communication networks. As the Internet of Things (IoT) ecosystem continues to expand, power amplifiers play a vital role in connecting a multitude of IoT devices, ranging from sensors to wearable gadgets. The dominance of the power amplifier segment is attributed to the continuous advancements in wireless communication technologies, driving the market for high-performance RFICs. With the evolution of communication standards and the growing need for seamless connectivity, power amplifiers are expected to remain at the forefront of the RFIC market, sustaining

## Regional Insights

Asia-Pacific region emerged as the dominant in the Global Radio Frequency Integrated Circuit (RFIC) Market and is anticipated to maintain its dominance during the forecast period. The region's dominance can be attributed to several factors, including the presence of major manufacturing hubs, technological advancements, and the widespread adoption of smartphones and other wireless devices. Countries like China, South Korea, Japan, and Taiwan are key contributors to the RFIC market, hosting major semiconductor manufacturers and research facilities. The robust electronics industry in these nations drives the demand for RFICs used in smartphones, smart home devices, and various consumer electronics. The rapid deployment of 5G networks in countries like China fuels the demand for advanced RFICs, especially in communication devices and base stations. The Asia-Pacific region also benefits from the growing popularity of IoT applications in sectors like manufacturing, healthcare, and automotive, further boosting the demand for RFICs. Government initiatives promoting digitalization and technology adoption contribute to the region's market dominance. As the Asia-Pacific



region continues to lead in semiconductor production, technological innovation, and consumer electronics manufacturing, it is expected to maintain its stronghold in the Global RFIC Market, making it the pivotal hub for RFIC advancements and market growth.

### Key Market Players

Qualcomm Technologies, Inc.

Broadcom Inc.

Texas Instruments Incorporated

Analog Devices, Inc.

Infineon Technologies AG

NXP Semiconductors N.V.

STMicroelectronics N.V.

Maxim Integrated Products, Inc.

MediaTek Inc.

Renesas Electronics Corporation

### Report Scope:

In this report, the Global Radio Frequency Integrated Circuit Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Radio Frequency Integrated Circuit Market, By Vertical:

Electronics

Automotive

Government

Radio Frequency Integrated Circuit Market, By Application:

Power Amplifier

Transceiver

Wireless USB

Bluetooth

Wi-Fi

Wi-max

ZigBee

GPS

NFC

Radio Frequency Integrated Circuit Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Radio Frequency Integrated Circuit Market.

### Available Customizations:

Global Radio Frequency Integrated Circuit market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

### **3. EXECUTIVE SUMMARY**

### **4. IMPACT OF COVID-19 ON GLOBAL RADIO FREQUENCY INTEGRATED CIRCUIT MARKET**

### **5. VOICE OF CUSTOMER**

### **6. GLOBAL RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OVERVIEW**

### **7. GLOBAL RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value

## 7.2. Market Share & Forecast

7.2.1. By Application (Power Amplifier, Transceiver, Wireless USB, Bluetooth, Wi-Fi, Wi-max, ZigBee, GPS, and NFC)

7.2.2. By Vertical (Electronics, Automotive, and Government)

7.2.3. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2023)

7.4. Market Map

## **8. NORTH AMERICA RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

### 8.1. Market Size & Forecast

8.1.1. By Value

### 8.2. Market Share & Forecast

8.2.1. By Application

8.2.2. By Vertical

8.2.3. By Country

### 8.3. North America: Country Analysis

#### 8.3.1. United States Radio Frequency Integrated Circuit Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Application

8.3.1.2.2. By Vertical

#### 8.3.2. Canada Radio Frequency Integrated Circuit Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Application

8.3.2.2.2. By Vertical

#### 8.3.3. Mexico Radio Frequency Integrated Circuit Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Application

8.3.3.2.2. By Vertical

## **9. EUROPE RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Application
  - 9.2.2. By Vertical
  - 9.2.3. By Country
- 9.3. Europe: Country Analysis
  - 9.3.1. Germany Radio Frequency Integrated Circuit Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Application
      - 9.3.1.2.2. By Vertical
  - 9.3.2. France Radio Frequency Integrated Circuit Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Application
      - 9.3.2.2.2. By Vertical
  - 9.3.3. United Kingdom Radio Frequency Integrated Circuit Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Application
      - 9.3.3.2.2. By Vertical
  - 9.3.4. Italy Radio Frequency Integrated Circuit Market Outlook
    - 9.3.4.1. Market Size & Forecast
      - 9.3.4.1.1. By Value
    - 9.3.4.2. Market Share & Forecast
      - 9.3.4.2.1. By Application
      - 9.3.4.2.2. By Vertical
  - 9.3.5. Spain Radio Frequency Integrated Circuit Market Outlook
    - 9.3.5.1. Market Size & Forecast
      - 9.3.5.1.1. By Value
    - 9.3.5.2. Market Share & Forecast
      - 9.3.5.2.1. By Application
      - 9.3.5.2.2. By Vertical
  - 9.3.6. Belgium Radio Frequency Integrated Circuit Market Outlook

#### 9.3.6.1. Market Size & Forecast

##### 9.3.6.1.1. By Value

#### 9.3.6.2. Market Share & Forecast

##### 9.3.6.2.1. By Application

##### 9.3.6.2.2. By Vertical

## **10. SOUTH AMERICA RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Application

#### 10.2.2. By Vertical

#### 10.2.3. By Country

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Radio Frequency Integrated Circuit Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Application

###### 10.3.1.2.2. By Vertical

#### 10.3.2. Colombia Radio Frequency Integrated Circuit Market Outlook

##### 10.3.2.1. Market Size & Forecast

###### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

###### 10.3.2.2.1. By Application

###### 10.3.2.2.2. By Vertical

#### 10.3.3. Argentina Radio Frequency Integrated Circuit Market Outlook

##### 10.3.3.1. Market Size & Forecast

###### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

###### 10.3.3.2.1. By Application

###### 10.3.3.2.2. By Vertical

#### 10.3.4. Chile Radio Frequency Integrated Circuit Market Outlook

##### 10.3.4.1. Market Size & Forecast

###### 10.3.4.1.1. By Value

##### 10.3.4.2. Market Share & Forecast

###### 10.3.4.2.1. By Application



- 10.3.4.2.2. By Vertical
- 10.3.5. Peru Radio Frequency Integrated Circuit Market Outlook
  - 10.3.5.1. Market Size & Forecast
    - 10.3.5.1.1. By Value
  - 10.3.5.2. Market Share & Forecast
    - 10.3.5.2.1. By Application
    - 10.3.5.2.2. By Vertical

## **11. MIDDLE EAST & AFRICA RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

- 11.1. Market Size & Forecast
  - 11.1.1. By Value
- 11.2. Market Share & Forecast
  - 11.2.1. By Application
  - 11.2.2. By Vertical
  - 11.2.3. By Country
- 11.3. Middle East & Africa: Country Analysis
  - 11.3.1. Saudi Arabia Radio Frequency Integrated Circuit Market Outlook
    - 11.3.1.1. Market Size & Forecast
      - 11.3.1.1.1. By Value
    - 11.3.1.2. Market Share & Forecast
      - 11.3.1.2.1. By Application
      - 11.3.1.2.2. By Vertical
  - 11.3.2. UAE Radio Frequency Integrated Circuit Market Outlook
    - 11.3.2.1. Market Size & Forecast
      - 11.3.2.1.1. By Value
    - 11.3.2.2. Market Share & Forecast
      - 11.3.2.2.1. By Application
      - 11.3.2.2.2. By Vertical
  - 11.3.3. South Africa Radio Frequency Integrated Circuit Market Outlook
    - 11.3.3.1. Market Size & Forecast
      - 11.3.3.1.1. By Value
    - 11.3.3.2. Market Share & Forecast
      - 11.3.3.2.1. By Application
      - 11.3.3.2.2. By Vertical
  - 11.3.4. Turkey Radio Frequency Integrated Circuit Market Outlook
    - 11.3.4.1. Market Size & Forecast
      - 11.3.4.1.1. By Value

- 11.3.4.2. Market Share & Forecast
  - 11.3.4.2.1. By Application
  - 11.3.4.2.2. By Vertical
- 11.3.5. Israel Radio Frequency Integrated Circuit Market Outlook
  - 11.3.5.1. Market Size & Forecast
    - 11.3.5.1.1. By Value
  - 11.3.5.2. Market Share & Forecast
    - 11.3.5.2.1. By Application
    - 11.3.5.2.2. By Vertical

## **12. ASIA PACIFIC RADIO FREQUENCY INTEGRATED CIRCUIT MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Value
- 12.2. Market Share & Forecast
  - 12.2.1. By Application
  - 12.2.2. By Vertical
  - 12.2.3. By Country
- 12.3. Asia-Pacific: Country Analysis
  - 12.3.1. China Radio Frequency Integrated Circuit Market Outlook
    - 12.3.1.1. Market Size & Forecast
      - 12.3.1.1.1. By Value
    - 12.3.1.2. Market Share & Forecast
      - 12.3.1.2.1. By Application
      - 12.3.1.2.2. By Vertical
  - 12.3.2. India Radio Frequency Integrated Circuit Market Outlook
    - 12.3.2.1. Market Size & Forecast
      - 12.3.2.1.1. By Value
    - 12.3.2.2. Market Share & Forecast
      - 12.3.2.2.1. By Application
      - 12.3.2.2.2. By Vertical
  - 12.3.3. Japan Radio Frequency Integrated Circuit Market Outlook
    - 12.3.3.1. Market Size & Forecast
      - 12.3.3.1.1. By Value
    - 12.3.3.2. Market Share & Forecast
      - 12.3.3.2.1. By Application
      - 12.3.3.2.2. By Vertical
  - 12.3.4. South Korea Radio Frequency Integrated Circuit Market Outlook

- 12.3.4.1. Market Size & Forecast
  - 12.3.4.1.1. By Value
- 12.3.4.2. Market Share & Forecast
  - 12.3.4.2.1. By Application
  - 12.3.4.2.2. By Vertical
- 12.3.5. Australia Radio Frequency Integrated Circuit Market Outlook
  - 12.3.5.1. Market Size & Forecast
    - 12.3.5.1.1. By Value
  - 12.3.5.2. Market Share & Forecast
    - 12.3.5.2.1. By Application
    - 12.3.5.2.2. By Vertical
- 12.3.6. Indonesia Radio Frequency Integrated Circuit Market Outlook
  - 12.3.6.1. Market Size & Forecast
    - 12.3.6.1.1. By Value
  - 12.3.6.2. Market Share & Forecast
    - 12.3.6.2.1. By Application
    - 12.3.6.2.2. By Vertical
- 12.3.7. Vietnam Radio Frequency Integrated Circuit Market Outlook
  - 12.3.7.1. Market Size & Forecast
    - 12.3.7.1.1. By Value
  - 12.3.7.2. Market Share & Forecast
    - 12.3.7.2.1. By Application
    - 12.3.7.2.2. By Vertical

## **13. MARKET DYNAMICS**

- 13.1. Drivers
- 13.2. Challenges

## **14. MARKET TRENDS AND DEVELOPMENTS**

## **15. COMPANY PROFILES**

- 15.1. Qualcomm Technologies, Inc.
  - 15.1.1. Business Overview
  - 15.1.2. Key Revenue and Financials
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel/Key Contact Person
  - 15.1.5. Key Product/Services Offered

- 15.2. Broadcom Inc.
  - 15.2.1. Business Overview
  - 15.2.2. Key Revenue and Financials
  - 15.2.3. Recent Developments
  - 15.2.4. Key Personnel/Key Contact Person
  - 15.2.5. Key Product/Services Offered
- 15.3. Texas Instruments Incorporated
  - 15.3.1. Business Overview
  - 15.3.2. Key Revenue and Financials
  - 15.3.3. Recent Developments
  - 15.3.4. Key Personnel/Key Contact Person
  - 15.3.5. Key Product/Services Offered
- 15.4. Analog Devices, Inc.
  - 15.4.1. Business Overview
  - 15.4.2. Key Revenue and Financials
  - 15.4.3. Recent Developments
  - 15.4.4. Key Personnel/Key Contact Person
  - 15.4.5. Key Product/Services Offered
- 15.5. Infineon Technologies AG
  - 15.5.1. Business Overview
  - 15.5.2. Key Revenue and Financials
  - 15.5.3. Recent Developments
  - 15.5.4. Key Personnel/Key Contact Person
  - 15.5.5. Key Product/Services Offered
- 15.6. NXP Semiconductors N.V.
  - 15.6.1. Business Overview
  - 15.6.2. Key Revenue and Financials
  - 15.6.3. Recent Developments
  - 15.6.4. Key Personnel/Key Contact Person
  - 15.6.5. Key Product/Services Offered
- 15.7. STMicroelectronics N.V.
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. Maxim Integrated Products, Inc.
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials

- 15.8.3. Recent Developments
- 15.8.4. Key Personnel/Key Contact Person
- 15.8.5. Key Product/Services Offered

#### 15.9. MediaTek Inc.

- 15.9.1. Business Overview
- 15.9.2. Key Revenue and Financials
- 15.9.3. Recent Developments
- 15.9.4. Key Personnel/Key Contact Person
- 15.9.5. Key Product/Services Offered

#### 15.10. Renesas Electronics Corporation

- 15.10.1. Business Overview
- 15.10.2. Key Revenue and Financials
- 15.10.3. Recent Developments
- 15.10.4. Key Personnel/Key Contact Person
- 15.10.5. Key Product/Services Offered

## **16. STRATEGIC RECOMMENDATIONS**

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