

Global Radio Frequency Device Market Growth 2026-2032

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Abstracts

The global Radio Frequency Device market size is predicted to grow from US\$ 23934 million in 2025 to US\$ 35662 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

Semiconductor radio frequency (RF) devices are the key hardware set in wireless communication systems that converts baseband information into transmittable RF signals and completes reception and selection at the antenna side, typically residing in the front end of the RF transceiver chain and the power stages. Their core purpose is to amplify, switch and route, filter and suppress interference, perform impedance matching, and tune antennas across multiple bands, so that coverage, throughput, power consumption, and stability can be balanced in multi-band and multi-mode scenarios. Product forms include discrete devices and small-signal transistors, as well as front-end modules and connectivity modules that integrate power amplifiers, low-noise amplifiers, switches, and filters into a single package to reduce system area and simplify design and certification. Filters commonly rely on acoustic filtering technologies to achieve high selectivity and coexistence performance, spanning SAW, BAW, and FBAR approaches. Typical applications concentrate on cellular front ends in smartphones and wearables, Wi-Fi front ends in routers and terminals, and high-power RF transmit chains for network infrastructure and industrial use. Primary customers include device OEMs, communications equipment vendors, and module makers. Commercial delivery often combines direct component supply with modular solutions, while system performance is usually optimized by trading off insertion loss, noise figure, linearity, power efficiency, and thermal design metrics.

RF device delivery is rapidly shifting from discrete components to system-level modular solutions, driven by the combined effects of 5G multi-mode multi-band operation, carrier

aggregation, and increasingly fragmented device form factors. In the past, engineering teams could optimize power amplifiers, switches, and filters device by device, then rely on extensive late-stage tuning at the handset or system level. Today, the number of bands, antennas, and coexistence constraints has grown sharply, and pointwise optimal choices often fail to produce the best end-system outcome. As a result, suppliers increasingly co-design power amplifiers, low-noise amplifiers, RF switches, matching networks, antenna tuning, and filtering within a single package, delivering front-end modules and integrated front-end solutions together with reusable reference designs and manufacturable operating windows. For customers, the value of modularization is not only PCB area savings and BOM consolidation, but also the offloading of complex RF coupling, parasitics, and consistency control to the supplier side, which reduces system bring-up and certification cost while shortening the cycle from project kickoff to mass production. For suppliers, competitive differentiation extends beyond individual device metrics to integration level, system performance, packaging and test capability, and the depth of co-optimization with platform ecosystems, which collectively increases switching costs and raises the bar for reliable delivery.

From a technology perspective, filtering and power devices typically represent the two strongest axes of differentiation. The core value of RF filters is to pass the target band while suppressing out-of-band signals, improving selectivity and interference resilience. This is critical across smartphone coexistence scenarios, the complex electromagnetic environment of automotive wireless, and spectrum management needs on the infrastructure side. Acoustic filtering spans SAW, BAW, and FBAR variants, and suitability shifts with center frequency, bandwidth, insertion loss, and power handling, so suppliers often structure portfolios by band and system requirements and provide searchable parametric frameworks to support rapid selection. On the power path, device-side priorities differ by end market: terminals focus on balancing efficiency and linearity within thermal constraints, while infrastructure emphasizes high output power, reliability, and long-term consistency. Correspondingly, product forms expand from discrete transistors to pallets, modules, and MMICs across multiple integration tiers, aligning with different system integration depths and cost structures. Overall, RF device competition has evolved from single-parameter comparisons to a comprehensive contest spanning process technology, packaging, thermal management, test and calibration, and system-level co-optimization.

In supply and market organization, leading vendors commonly build cross-regional manufacturing and fulfillment networks to strengthen capacity resilience and delivery stability, while maintaining engineering and quality systems across sites to ensure

consistency. Manufacturing footprints are typically anchored where critical process know-how, supply-chain support, and talent density concentrate, complemented by foundry and OSAT partnerships that add capacity flexibility and multi-source options to reduce single-point risk. Sales and customer support, by contrast, are positioned close to customers? R&D and procurement hubs, with localized teams focused on field application support, certification collaboration, issue closure, and ramp readiness. This proximity enables faster component selection and system tuning during design-in, and more effective management of consistency, yield, returns, and alternate sourcing during volume production. The division between ?production regions? and ?sales regions? shifts competition beyond component performance into global supply capability, quality stability, delivery predictability, and service responsiveness. In practice, these factors often directly determine design-in speed and share of wallet?especially during flagship platform transitions, operator certification windows, and large-scale base-station deployment cycles.

LP Information, Inc. (LPI) ' newest research report, the ?Radio Frequency Device Industry Forecast? looks at past sales and reviews total world Radio Frequency Device sales in 2025, providing a comprehensive analysis by region and market sector of projected Radio Frequency Device sales for 2026 through 2032. With Radio Frequency Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Radio Frequency Device industry.

This Insight Report provides a comprehensive analysis of the global Radio Frequency Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Radio Frequency Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Radio Frequency Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Radio Frequency Device and breaks down the forecast by Device Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Radio Frequency Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Radio Frequency Device market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Device Type:

RF Power Amplifier (PA)

RF Low Noise Amplifier (LNA)

RF Switch

RF Filter

RF Duplexer / Multiplexer

Others

Segmentation by Material:

Silicon-based

III-V Compound

Others

Segmentation by Operating Band:

Low-band RF (40 GHz)

Segmentation by Application:

Consumer Electronics

Telecommunications

Automotive

Traditional Industrial

Healthcare / Medical

Aerospace & Space

Defense

Test & Measurement / Research

Public Safety & Government

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Analog Devices, Inc.

Ampleon

Broadcom Inc.

Infineon Technologies AG

Keysight Technologies, Inc.

MACOM Technology Solutions

Microchip Technology Inc.

Mini-Circuits

Mitsubishi Electric Corporation

Microwave Technology

Northrop Grumman

NXP Semiconductors

onsemi

Qorvo, Inc.

Qualcomm Incorporated

Skyworks Solutions, Inc.

STMicroelectronics

Sumitomo Electric Device Innovations, Inc.

Taiyo Yuden Co., Ltd.

TDK Corporation

Texas Instruments Incorporated

Wolfspeed, Inc.

Nexperia

Maxscend Microelectronics

UNISOC

Vanchip (Tianjin) Technology Co., Ltd.

Chengdu Gana Hivi Technology Co., Ltd.

Zhejiang Chengchang Technology Co., Ltd.

Zhejiang Zhenlei Technology Co., Ltd.

Tuowei Electronics

Xingu Micro

Anqiwei

Zhongke Haigao

Yaguang Technology

Southwest Integrated Circuit Design Co., Ltd.

Shenzhen Feixiang Technology Co., Ltd.

Huizhou SPEED Wireless Technology Co., Ltd.

Nengxun Gaoneng Semiconductor

Calterah Semiconductor Technology (Shanghai) Co., Ltd.

KCB Solutions

CETC

Key Questions Addressed in this Report

What is the 10-year outlook for the global Radio Frequency Device market?

What factors are driving Radio Frequency Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Radio Frequency Device market opportunities vary by end market size?
How does Radio Frequency Device break out by Device Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Radio Frequency Device Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Radio Frequency Device by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Radio Frequency Device by Country/Region, 2021, 2025 & 2032
- 2.2 Radio Frequency Device Segment by Device Type
 - 2.2.1 RF Power Amplifier (PA)
 - 2.2.2 RF Low Noise Amplifier (LNA)
 - 2.2.3 RF Switch
 - 2.2.4 RF Filter
 - 2.2.5 RF Duplexer / Multiplexer
 - 2.2.6 Others
 - 2.2.7 Radio Frequency Device Sales by Device Type
 - 2.2.7.1 Global Radio Frequency Device Sales Market Share by Device Type (2021-2026)
 - 2.2.7.2 Global Radio Frequency Device Revenue and Market Share by Device Type (2021-2026)
 - 2.2.7.3 Global Radio Frequency Device Sale Price by Device Type (2021-2026)
- 2.3 Radio Frequency Device Segment by Material
 - 2.3.1 Silicon-based
 - 2.3.2 III-V Compound
 - 2.3.3 Others
 - 2.3.4 Radio Frequency Device Sales by Material

- 2.3.4.1 Global Radio Frequency Device Sales Market Share by Material (2021-2026)
- 2.3.4.2 Global Radio Frequency Device Revenue and Market Share by Material (2021-2026)
- 2.3.4.3 Global Radio Frequency Device Sale Price by Material (2021-2026)
- 2.4 Radio Frequency Device Segment by Operating Band
 - 2.4.1 Low-band RF (40 GHz)
 - 2.4.6 Radio Frequency Device Sales by Operating Band
 - 2.4.6.1 Global Radio Frequency Device Sales Market Share by Operating Band (2021-2026)
 - 2.4.6.2 Global Radio Frequency Device Revenue and Market Share by Operating Band (2021-2026)
 - 2.4.6.3 Global Radio Frequency Device Sale Price by Operating Band (2021-2026)
- 2.5 Radio Frequency Device Segment by Application
 - 2.5.1 Consumer Electronics
 - 2.5.2 Telecommunications
 - 2.5.3 Automotive
 - 2.5.4 Traditional Industrial
 - 2.5.5 Healthcare / Medical
 - 2.5.6 Aerospace & Space
 - 2.5.7 Defense
 - 2.5.8 Test & Measurement / Research
 - 2.5.9 Public Safety & Government
 - 2.5.10 Radio Frequency Device Sales by Application
 - 2.5.10.1 Global Radio Frequency Device Sale Market Share by Application (2021-2026)
 - 2.5.10.2 Global Radio Frequency Device Revenue and Market Share by Application (2021-2026)
 - 2.5.10.3 Global Radio Frequency Device Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Radio Frequency Device Breakdown Data by Company
 - 3.1.1 Global Radio Frequency Device Annual Sales by Company (2021-2026)
 - 3.1.2 Global Radio Frequency Device Sales Market Share by Company (2021-2026)
- 3.2 Global Radio Frequency Device Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Radio Frequency Device Revenue by Company (2021-2026)
 - 3.2.2 Global Radio Frequency Device Revenue Market Share by Company (2021-2026)
- 3.3 Global Radio Frequency Device Sale Price by Company

3.4 Key Manufacturers Radio Frequency Device Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Radio Frequency Device Product Location Distribution

3.4.2 Players Radio Frequency Device Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR RADIO FREQUENCY DEVICE BY GEOGRAPHIC REGION

4.1 World Historic Radio Frequency Device Market Size by Geographic Region (2021-2026)

4.1.1 Global Radio Frequency Device Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Radio Frequency Device Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Radio Frequency Device Market Size by Country/Region (2021-2026)

4.2.1 Global Radio Frequency Device Annual Sales by Country/Region (2021-2026)

4.2.2 Global Radio Frequency Device Annual Revenue by Country/Region (2021-2026)

4.3 Americas Radio Frequency Device Sales Growth

4.4 APAC Radio Frequency Device Sales Growth

4.5 Europe Radio Frequency Device Sales Growth

4.6 Middle East & Africa Radio Frequency Device Sales Growth

5 AMERICAS

5.1 Americas Radio Frequency Device Sales by Country

5.1.1 Americas Radio Frequency Device Sales by Country (2021-2026)

5.1.2 Americas Radio Frequency Device Revenue by Country (2021-2026)

5.2 Americas Radio Frequency Device Sales by Device Type (2021-2026)

5.3 Americas Radio Frequency Device Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Radio Frequency Device Sales by Region

6.1.1 APAC Radio Frequency Device Sales by Region (2021-2026)

6.1.2 APAC Radio Frequency Device Revenue by Region (2021-2026)

6.2 APAC Radio Frequency Device Sales by Device Type (2021-2026)

6.3 APAC Radio Frequency Device Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Radio Frequency Device by Country

7.1.1 Europe Radio Frequency Device Sales by Country (2021-2026)

7.1.2 Europe Radio Frequency Device Revenue by Country (2021-2026)

7.2 Europe Radio Frequency Device Sales by Device Type (2021-2026)

7.3 Europe Radio Frequency Device Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Radio Frequency Device by Country

8.1.1 Middle East & Africa Radio Frequency Device Sales by Country (2021-2026)

8.1.2 Middle East & Africa Radio Frequency Device Revenue by Country (2021-2026)

8.2 Middle East & Africa Radio Frequency Device Sales by Device Type (2021-2026)

8.3 Middle East & Africa Radio Frequency Device Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Radio Frequency Device

10.3 Manufacturing Process Analysis of Radio Frequency Device

10.4 Industry Chain Structure of Radio Frequency Device

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Radio Frequency Device Distributors

11.3 Radio Frequency Device Customer

12 WORLD FORECAST REVIEW FOR RADIO FREQUENCY DEVICE BY GEOGRAPHIC REGION

12.1 Global Radio Frequency Device Market Size Forecast by Region

12.1.1 Global Radio Frequency Device Forecast by Region (2027-2032)

12.1.2 Global Radio Frequency Device Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Radio Frequency Device Forecast by Device Type (2027-2032)

12.7 Global Radio Frequency Device Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Analog Devices, Inc.

13.1.1 Analog Devices, Inc. Company Information

13.1.2 Analog Devices, Inc. Radio Frequency Device Product Portfolios and Specifications

13.1.3 Analog Devices, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Analog Devices, Inc. Main Business Overview

13.1.5 Analog Devices, Inc. Latest Developments

13.2 Ampleon

13.2.1 Ampleon Company Information

13.2.2 Ampleon Radio Frequency Device Product Portfolios and Specifications

13.2.3 Ampleon Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Ampleon Main Business Overview

13.2.5 Ampleon Latest Developments

13.3 Broadcom Inc.

13.3.1 Broadcom Inc. Company Information

13.3.2 Broadcom Inc. Radio Frequency Device Product Portfolios and Specifications

13.3.3 Broadcom Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Broadcom Inc. Main Business Overview

13.3.5 Broadcom Inc. Latest Developments

13.4 Infineon Technologies AG

13.4.1 Infineon Technologies AG Company Information

13.4.2 Infineon Technologies AG Radio Frequency Device Product Portfolios and Specifications

13.4.3 Infineon Technologies AG Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Infineon Technologies AG Main Business Overview

13.4.5 Infineon Technologies AG Latest Developments

13.5 Keysight Technologies, Inc.

13.5.1 Keysight Technologies, Inc. Company Information

13.5.2 Keysight Technologies, Inc. Radio Frequency Device Product Portfolios and Specifications

13.5.3 Keysight Technologies, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Keysight Technologies, Inc. Main Business Overview

13.5.5 Keysight Technologies, Inc. Latest Developments

13.6 MACOM Technology Solutions

13.6.1 MACOM Technology Solutions Company Information

13.6.2 MACOM Technology Solutions Radio Frequency Device Product Portfolios and Specifications

13.6.3 MACOM Technology Solutions Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 MACOM Technology Solutions Main Business Overview

13.6.5 MACOM Technology Solutions Latest Developments

13.7 Microchip Technology Inc.

13.7.1 Microchip Technology Inc. Company Information

13.7.2 Microchip Technology Inc. Radio Frequency Device Product Portfolios and Specifications

13.7.3 Microchip Technology Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Microchip Technology Inc. Main Business Overview

13.7.5 Microchip Technology Inc. Latest Developments

13.8 Mini-Circuits

13.8.1 Mini-Circuits Company Information

13.8.2 Mini-Circuits Radio Frequency Device Product Portfolios and Specifications

13.8.3 Mini-Circuits Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Mini-Circuits Main Business Overview

13.8.5 Mini-Circuits Latest Developments

13.9 Mitsubishi Electric Corporation

13.9.1 Mitsubishi Electric Corporation Company Information

13.9.2 Mitsubishi Electric Corporation Radio Frequency Device Product Portfolios and Specifications

13.9.3 Mitsubishi Electric Corporation Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Mitsubishi Electric Corporation Main Business Overview

13.9.5 Mitsubishi Electric Corporation Latest Developments

13.10 Microwave Technology

13.10.1 Microwave Technology Company Information

13.10.2 Microwave Technology Radio Frequency Device Product Portfolios and Specifications

13.10.3 Microwave Technology Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Microwave Technology Main Business Overview

13.10.5 Microwave Technology Latest Developments

13.11 Northrop Grumman

13.11.1 Northrop Grumman Company Information

13.11.2 Northrop Grumman Radio Frequency Device Product Portfolios and Specifications

13.11.3 Northrop Grumman Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Northrop Grumman Main Business Overview

13.11.5 Northrop Grumman Latest Developments

13.12 NXP Semiconductors

13.12.1 NXP Semiconductors Company Information

13.12.2 NXP Semiconductors Radio Frequency Device Product Portfolios and Specifications

13.12.3 NXP Semiconductors Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 NXP Semiconductors Main Business Overview

13.12.5 NXP Semiconductors Latest Developments

13.13 onsemi

13.13.1 onsemi Company Information

13.13.2 onsemi Radio Frequency Device Product Portfolios and Specifications

13.13.3 onsemi Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 onsemi Main Business Overview

13.13.5 onsemi Latest Developments

13.14 Qorvo, Inc.

13.14.1 Qorvo, Inc. Company Information

13.14.2 Qorvo, Inc. Radio Frequency Device Product Portfolios and Specifications

13.14.3 Qorvo, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Qorvo, Inc. Main Business Overview

13.14.5 Qorvo, Inc. Latest Developments

13.15 Qualcomm Incorporated

13.15.1 Qualcomm Incorporated Company Information

13.15.2 Qualcomm Incorporated Radio Frequency Device Product Portfolios and Specifications

13.15.3 Qualcomm Incorporated Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Qualcomm Incorporated Main Business Overview

13.15.5 Qualcomm Incorporated Latest Developments

13.16 Skyworks Solutions, Inc.

- 13.16.1 Skyworks Solutions, Inc. Company Information
- 13.16.2 Skyworks Solutions, Inc. Radio Frequency Device Product Portfolios and Specifications
- 13.16.3 Skyworks Solutions, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.16.4 Skyworks Solutions, Inc. Main Business Overview
- 13.16.5 Skyworks Solutions, Inc. Latest Developments
- 13.17 STMicroelectronics
 - 13.17.1 STMicroelectronics Company Information
 - 13.17.2 STMicroelectronics Radio Frequency Device Product Portfolios and Specifications
 - 13.17.3 STMicroelectronics Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 STMicroelectronics Main Business Overview
 - 13.17.5 STMicroelectronics Latest Developments
- 13.18 Sumitomo Electric Device Innovations, Inc.
 - 13.18.1 Sumitomo Electric Device Innovations, Inc. Company Information
 - 13.18.2 Sumitomo Electric Device Innovations, Inc. Radio Frequency Device Product Portfolios and Specifications
 - 13.18.3 Sumitomo Electric Device Innovations, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Sumitomo Electric Device Innovations, Inc. Main Business Overview
 - 13.18.5 Sumitomo Electric Device Innovations, Inc. Latest Developments
- 13.19 Taiyo Yuden Co., Ltd.
 - 13.19.1 Taiyo Yuden Co., Ltd. Company Information
 - 13.19.2 Taiyo Yuden Co., Ltd. Radio Frequency Device Product Portfolios and Specifications
 - 13.19.3 Taiyo Yuden Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Taiyo Yuden Co., Ltd. Main Business Overview
 - 13.19.5 Taiyo Yuden Co., Ltd. Latest Developments
- 13.20 TDK Corporation
 - 13.20.1 TDK Corporation Company Information
 - 13.20.2 TDK Corporation Radio Frequency Device Product Portfolios and Specifications
 - 13.20.3 TDK Corporation Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 TDK Corporation Main Business Overview
 - 13.20.5 TDK Corporation Latest Developments

13.21 Texas Instruments Incorporated

13.21.1 Texas Instruments Incorporated Company Information

13.21.2 Texas Instruments Incorporated Radio Frequency Device Product Portfolios and Specifications

13.21.3 Texas Instruments Incorporated Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Texas Instruments Incorporated Main Business Overview

13.21.5 Texas Instruments Incorporated Latest Developments

13.22 Wolfspeed, Inc.

13.22.1 Wolfspeed, Inc. Company Information

13.22.2 Wolfspeed, Inc. Radio Frequency Device Product Portfolios and Specifications

13.22.3 Wolfspeed, Inc. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 Wolfspeed, Inc. Main Business Overview

13.22.5 Wolfspeed, Inc. Latest Developments

13.23 Nexperia

13.23.1 Nexperia Company Information

13.23.2 Nexperia Radio Frequency Device Product Portfolios and Specifications

13.23.3 Nexperia Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.23.4 Nexperia Main Business Overview

13.23.5 Nexperia Latest Developments

13.24 Maxscend Microelectronics

13.24.1 Maxscend Microelectronics Company Information

13.24.2 Maxscend Microelectronics Radio Frequency Device Product Portfolios and Specifications

13.24.3 Maxscend Microelectronics Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.24.4 Maxscend Microelectronics Main Business Overview

13.24.5 Maxscend Microelectronics Latest Developments

13.25 UNISOC

13.25.1 UNISOC Company Information

13.25.2 UNISOC Radio Frequency Device Product Portfolios and Specifications

13.25.3 UNISOC Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.25.4 UNISOC Main Business Overview

13.25.5 UNISOC Latest Developments

13.26 Vanchip (Tianjin) Technology Co., Ltd.

13.26.1 Vanchip (Tianjin) Technology Co., Ltd. Company Information

13.26.2 Vanchip (Tianjin) Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.26.3 Vanchip (Tianjin) Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Vanchip (Tianjin) Technology Co., Ltd. Main Business Overview

13.26.5 Vanchip (Tianjin) Technology Co., Ltd. Latest Developments

13.27 Chengdu Gana Hivi Technology Co., Ltd.

13.27.1 Chengdu Gana Hivi Technology Co., Ltd. Company Information

13.27.2 Chengdu Gana Hivi Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.27.3 Chengdu Gana Hivi Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Chengdu Gana Hivi Technology Co., Ltd. Main Business Overview

13.27.5 Chengdu Gana Hivi Technology Co., Ltd. Latest Developments

13.28 Zhejiang Chengchang Technology Co., Ltd.

13.28.1 Zhejiang Chengchang Technology Co., Ltd. Company Information

13.28.2 Zhejiang Chengchang Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.28.3 Zhejiang Chengchang Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 Zhejiang Chengchang Technology Co., Ltd. Main Business Overview

13.28.5 Zhejiang Chengchang Technology Co., Ltd. Latest Developments

13.29 Zhejiang Zhenlei Technology Co., Ltd.

13.29.1 Zhejiang Zhenlei Technology Co., Ltd. Company Information

13.29.2 Zhejiang Zhenlei Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.29.3 Zhejiang Zhenlei Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 Zhejiang Zhenlei Technology Co., Ltd. Main Business Overview

13.29.5 Zhejiang Zhenlei Technology Co., Ltd. Latest Developments

13.30 Tuowei Electronics

13.30.1 Tuowei Electronics Company Information

13.30.2 Tuowei Electronics Radio Frequency Device Product Portfolios and Specifications

13.30.3 Tuowei Electronics Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.30.4 Tuowei Electronics Main Business Overview

13.30.5 Tuowei Electronics Latest Developments

13.31 Xingu Micro

- 13.31.1 Xingu Micro Company Information
- 13.31.2 Xingu Micro Radio Frequency Device Product Portfolios and Specifications
- 13.31.3 Xingu Micro Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.31.4 Xingu Micro Main Business Overview
- 13.31.5 Xingu Micro Latest Developments
- 13.32 Anqiwei
 - 13.32.1 Anqiwei Company Information
 - 13.32.2 Anqiwei Radio Frequency Device Product Portfolios and Specifications
 - 13.32.3 Anqiwei Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.32.4 Anqiwei Main Business Overview
 - 13.32.5 Anqiwei Latest Developments
- 13.33 Zhongke Haigao
 - 13.33.1 Zhongke Haigao Company Information
 - 13.33.2 Zhongke Haigao Radio Frequency Device Product Portfolios and Specifications
 - 13.33.3 Zhongke Haigao Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.33.4 Zhongke Haigao Main Business Overview
 - 13.33.5 Zhongke Haigao Latest Developments
- 13.34 Yaguang Technology
 - 13.34.1 Yaguang Technology Company Information
 - 13.34.2 Yaguang Technology Radio Frequency Device Product Portfolios and Specifications
 - 13.34.3 Yaguang Technology Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.34.4 Yaguang Technology Main Business Overview
 - 13.34.5 Yaguang Technology Latest Developments
- 13.35 Southwest Integrated Circuit Design Co., Ltd.
 - 13.35.1 Southwest Integrated Circuit Design Co., Ltd. Company Information
 - 13.35.2 Southwest Integrated Circuit Design Co., Ltd. Radio Frequency Device Product Portfolios and Specifications
 - 13.35.3 Southwest Integrated Circuit Design Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.35.4 Southwest Integrated Circuit Design Co., Ltd. Main Business Overview
 - 13.35.5 Southwest Integrated Circuit Design Co., Ltd. Latest Developments
- 13.36 Shenzhen Feixiang Technology Co., Ltd.
 - 13.36.1 Shenzhen Feixiang Technology Co., Ltd. Company Information

13.36.2 Shenzhen Feixiang Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.36.3 Shenzhen Feixiang Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.36.4 Shenzhen Feixiang Technology Co., Ltd. Main Business Overview

13.36.5 Shenzhen Feixiang Technology Co., Ltd. Latest Developments

13.37 Huizhou SPEED Wireless Technology Co., Ltd.

13.37.1 Huizhou SPEED Wireless Technology Co., Ltd. Company Information

13.37.2 Huizhou SPEED Wireless Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.37.3 Huizhou SPEED Wireless Technology Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.37.4 Huizhou SPEED Wireless Technology Co., Ltd. Main Business Overview

13.37.5 Huizhou SPEED Wireless Technology Co., Ltd. Latest Developments

13.38 Nengxun Gaoneng Semiconductor

13.38.1 Nengxun Gaoneng Semiconductor Company Information

13.38.2 Nengxun Gaoneng Semiconductor Radio Frequency Device Product Portfolios and Specifications

13.38.3 Nengxun Gaoneng Semiconductor Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.38.4 Nengxun Gaoneng Semiconductor Main Business Overview

13.38.5 Nengxun Gaoneng Semiconductor Latest Developments

13.39 Calterah Semiconductor Technology (Shanghai) Co., Ltd.

13.39.1 Calterah Semiconductor Technology (Shanghai) Co., Ltd. Company Information

13.39.2 Calterah Semiconductor Technology (Shanghai) Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

13.39.3 Calterah Semiconductor Technology (Shanghai) Co., Ltd. Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.39.4 Calterah Semiconductor Technology (Shanghai) Co., Ltd. Main Business Overview

13.39.5 Calterah Semiconductor Technology (Shanghai) Co., Ltd. Latest Developments

13.40 KCB Solutions

13.40.1 KCB Solutions Company Information

13.40.2 KCB Solutions Radio Frequency Device Product Portfolios and Specifications

13.40.3 KCB Solutions Radio Frequency Device Sales, Revenue, Price and Gross Margin (2021-2026)

13.40.4 KCB Solutions Main Business Overview

13.40.5 KCB Solutions Latest Developments

13.41 CETC

13.41.1 CETC Company Information

13.41.2 CETC Radio Frequency Device Product Portfolios and Specifications

13.41.3 CETC Radio Frequency Device Sales, Revenue, Price and Gross Margin
(2021-2026)

13.41.4 CETC Main Business Overview

13.41.5 CETC Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Radio Frequency Device Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Radio Frequency Device Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of RF Power Amplifier (PA)

Table 4. Major Players of RF Low Noise Amplifier (LNA)

Table 5. Major Players of RF Switch

Table 6. Major Players of RF Filter

Table 7. Major Players of RF Duplexer / Multiplexer

Table 8. Major Players of Others

Table 9. Global Radio Frequency Device Sales by Device Type (2021-2026) & (Units)

Table 10. Global Radio Frequency Device Sales Market Share by Device Type (2021-2026)

Table 11. Global Radio Frequency Device Revenue by Device Type (2021-2026) & (\$ million)

Table 12. Global Radio Frequency Device Revenue Market Share by Device Type (2021-2026)

Table 13. Global Radio Frequency Device Sale Price by Device Type (2021-2026) & (USD/Unit)

Table 14. Major Players of Silicon-based

Table 15. Major Players of III-V Compound

Table 16. Major Players of Others

Table 17. Global Radio Frequency Device Sales by Material (2021-2026) & (Units)

Table 18. Global Radio Frequency Device Sales Market Share by Material (2021-2026)

Table 19. Global Radio Frequency Device Revenue by Material (2021-2026) & (\$ million)

Table 20. Global Radio Frequency Device Revenue Market Share by Material (2021-2026)

Table 21. Global Radio Frequency Device Sale Price by Material (2021-2026) & (USD/Unit)

Table 22. Major Players of Low-band RF (40 GHz)

Table 27. Global Radio Frequency Device Sales by Operating Band (2021-2026) & (Units)

Table 28. Global Radio Frequency Device Sales Market Share by Operating Band (2021-2026)

Table 29. Global Radio Frequency Device Revenue by Operating Band (2021-2026) & (\$ million)

Table 30. Global Radio Frequency Device Revenue Market Share by Operating Band (2021-2026)

Table 31. Global Radio Frequency Device Sale Price by Operating Band (2021-2026) & (USD/Unit)

Table 32. Global Radio Frequency Device Sale by Application (2021-2026) & (Units)

Table 33. Global Radio Frequency Device Sale Market Share by Application (2021-2026)

Table 34. Global Radio Frequency Device Revenue by Application (2021-2026) & (\$ million)

Table 35. Global Radio Frequency Device Revenue Market Share by Application (2021-2026)

Table 36. Global Radio Frequency Device Sale Price by Application (2021-2026) & (USD/Unit)

Table 37. Global Radio Frequency Device Sales by Company (2021-2026) & (Units)

Table 38. Global Radio Frequency Device Sales Market Share by Company (2021-2026)

Table 39. Global Radio Frequency Device Revenue by Company (2021-2026) & (\$ millions)

Table 40. Global Radio Frequency Device Revenue Market Share by Company (2021-2026)

Table 41. Global Radio Frequency Device Sale Price by Company (2021-2026) & (USD/Unit)

Table 42. Key Manufacturers Radio Frequency Device Producing Area Distribution and Sales Area

Table 43. Players Radio Frequency Device Products Offered

Table 44. Radio Frequency Device Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 45. New Products and Potential Entrants

Table 46. Market M&A Activity & Strategy

Table 47. Global Radio Frequency Device Sales by Geographic Region (2021-2026) & (Units)

Table 48. Global Radio Frequency Device Sales Market Share Geographic Region (2021-2026)

Table 49. Global Radio Frequency Device Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 50. Global Radio Frequency Device Revenue Market Share by Geographic Region (2021-2026)

Table 51. Global Radio Frequency Device Sales by Country/Region (2021-2026) & (Units)

Table 52. Global Radio Frequency Device Sales Market Share by Country/Region (2021-2026)

Table 53. Global Radio Frequency Device Revenue by Country/Region (2021-2026) & (\$ millions)

Table 54. Global Radio Frequency Device Revenue Market Share by Country/Region (2021-2026)

Table 55. Americas Radio Frequency Device Sales by Country (2021-2026) & (Units)

Table 56. Americas Radio Frequency Device Sales Market Share by Country (2021-2026)

Table 57. Americas Radio Frequency Device Revenue by Country (2021-2026) & (\$ millions)

Table 58. Americas Radio Frequency Device Sales by Device Type (2021-2026) & (Units)

Table 59. Americas Radio Frequency Device Sales by Application (2021-2026) & (Units)

Table 60. APAC Radio Frequency Device Sales by Region (2021-2026) & (Units)

Table 61. APAC Radio Frequency Device Sales Market Share by Region (2021-2026)

Table 62. APAC Radio Frequency Device Revenue by Region (2021-2026) & (\$ millions)

Table 63. APAC Radio Frequency Device Sales by Device Type (2021-2026) & (Units)

Table 64. APAC Radio Frequency Device Sales by Application (2021-2026) & (Units)

Table 65. Europe Radio Frequency Device Sales by Country (2021-2026) & (Units)

Table 66. Europe Radio Frequency Device Revenue by Country (2021-2026) & (\$ millions)

Table 67. Europe Radio Frequency Device Sales by Device Type (2021-2026) & (Units)

Table 68. Europe Radio Frequency Device Sales by Application (2021-2026) & (Units)

Table 69. Middle East & Africa Radio Frequency Device Sales by Country (2021-2026) & (Units)

Table 70. Middle East & Africa Radio Frequency Device Revenue Market Share by Country (2021-2026)

Table 71. Middle East & Africa Radio Frequency Device Sales by Device Type (2021-2026) & (Units)

Table 72. Middle East & Africa Radio Frequency Device Sales by Application (2021-2026) & (Units)

Table 73. Key Market Drivers & Growth Opportunities of Radio Frequency Device

Table 74. Key Market Challenges & Risks of Radio Frequency Device

Table 75. Key Industry Trends of Radio Frequency Device

Table 76. Radio Frequency Device Raw Material

Table 77. Key Suppliers of Raw Materials

Table 78. Radio Frequency Device Distributors List

Table 79. Radio Frequency Device Customer List

Table 80. Global Radio Frequency Device Sales Forecast by Region (2027-2032) & (Units)

Table 81. Global Radio Frequency Device Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Americas Radio Frequency Device Sales Forecast by Country (2027-2032) & (Units)

Table 83. Americas Radio Frequency Device Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. APAC Radio Frequency Device Sales Forecast by Region (2027-2032) & (Units)

Table 85. APAC Radio Frequency Device Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 86. Europe Radio Frequency Device Sales Forecast by Country (2027-2032) & (Units)

Table 87. Europe Radio Frequency Device Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 88. Middle East & Africa Radio Frequency Device Sales Forecast by Country (2027-2032) & (Units)

Table 89. Middle East & Africa Radio Frequency Device Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 90. Global Radio Frequency Device Sales Forecast by Device Type (2027-2032) & (Units)

Table 91. Global Radio Frequency Device Revenue Forecast by Device Type (2027-2032) & (\$ millions)

Table 92. Global Radio Frequency Device Sales Forecast by Application (2027-2032) & (Units)

Table 93. Global Radio Frequency Device Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 94. Analog Devices, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 95. Analog Devices, Inc. Radio Frequency Device Product Portfolios and Specifications

Table 96. Analog Devices, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 97. Analog Devices, Inc. Main Business

Table 98. Analog Devices, Inc. Latest Developments

Table 99. Ampleon Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 100. Ampleon Radio Frequency Device Product Portfolios and Specifications

Table 101. Ampleon Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 102. Ampleon Main Business

Table 103. Ampleon Latest Developments

Table 104. Broadcom Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 105. Broadcom Inc. Radio Frequency Device Product Portfolios and Specifications

Table 106. Broadcom Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 107. Broadcom Inc. Main Business

Table 108. Broadcom Inc. Latest Developments

Table 109. Infineon Technologies AG Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 110. Infineon Technologies AG Radio Frequency Device Product Portfolios and Specifications

Table 111. Infineon Technologies AG Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 112. Infineon Technologies AG Main Business

Table 113. Infineon Technologies AG Latest Developments

Table 114. Keysight Technologies, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 115. Keysight Technologies, Inc. Radio Frequency Device Product Portfolios and Specifications

Table 116. Keysight Technologies, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 117. Keysight Technologies, Inc. Main Business

Table 118. Keysight Technologies, Inc. Latest Developments

Table 119. MACOM Technology Solutions Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 120. MACOM Technology Solutions Radio Frequency Device Product Portfolios and Specifications

Table 121. MACOM Technology Solutions Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 122. MACOM Technology Solutions Main Business

Table 123. MACOM Technology Solutions Latest Developments
Table 124. Microchip Technology Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 125. Microchip Technology Inc. Radio Frequency Device Product Portfolios and Specifications
Table 126. Microchip Technology Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 127. Microchip Technology Inc. Main Business
Table 128. Microchip Technology Inc. Latest Developments
Table 129. Mini-Circuits Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 130. Mini-Circuits Radio Frequency Device Product Portfolios and Specifications
Table 131. Mini-Circuits Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 132. Mini-Circuits Main Business
Table 133. Mini-Circuits Latest Developments
Table 134. Mitsubishi Electric Corporation Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 135. Mitsubishi Electric Corporation Radio Frequency Device Product Portfolios and Specifications
Table 136. Mitsubishi Electric Corporation Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 137. Mitsubishi Electric Corporation Main Business
Table 138. Mitsubishi Electric Corporation Latest Developments
Table 139. Microwave Technology Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 140. Microwave Technology Radio Frequency Device Product Portfolios and Specifications
Table 141. Microwave Technology Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 142. Microwave Technology Main Business
Table 143. Microwave Technology Latest Developments
Table 144. Northrop Grumman Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 145. Northrop Grumman Radio Frequency Device Product Portfolios and Specifications
Table 146. Northrop Grumman Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 147. Northrop Grumman Main Business

Table 148. Northrop Grumman Latest Developments
Table 149. NXP Semiconductors Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 150. NXP Semiconductors Radio Frequency Device Product Portfolios and Specifications
Table 151. NXP Semiconductors Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 152. NXP Semiconductors Main Business
Table 153. NXP Semiconductors Latest Developments
Table 154. onsemi Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 155. onsemi Radio Frequency Device Product Portfolios and Specifications
Table 156. onsemi Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 157. onsemi Main Business
Table 158. onsemi Latest Developments
Table 159. Qorvo, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 160. Qorvo, Inc. Radio Frequency Device Product Portfolios and Specifications
Table 161. Qorvo, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 162. Qorvo, Inc. Main Business
Table 163. Qorvo, Inc. Latest Developments
Table 164. Qualcomm Incorporated Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 165. Qualcomm Incorporated Radio Frequency Device Product Portfolios and Specifications
Table 166. Qualcomm Incorporated Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 167. Qualcomm Incorporated Main Business
Table 168. Qualcomm Incorporated Latest Developments
Table 169. Skyworks Solutions, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 170. Skyworks Solutions, Inc. Radio Frequency Device Product Portfolios and Specifications
Table 171. Skyworks Solutions, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 172. Skyworks Solutions, Inc. Main Business
Table 173. Skyworks Solutions, Inc. Latest Developments

Table 174. STMicroelectronics Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 175. STMicroelectronics Radio Frequency Device Product Portfolios and Specifications

Table 176. STMicroelectronics Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 177. STMicroelectronics Main Business

Table 178. STMicroelectronics Latest Developments

Table 179. Sumitomo Electric Device Innovations, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 180. Sumitomo Electric Device Innovations, Inc. Radio Frequency Device Product Portfolios and Specifications

Table 181. Sumitomo Electric Device Innovations, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 182. Sumitomo Electric Device Innovations, Inc. Main Business

Table 183. Sumitomo Electric Device Innovations, Inc. Latest Developments

Table 184. Taiyo Yuden Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 185. Taiyo Yuden Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 186. Taiyo Yuden Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 187. Taiyo Yuden Co., Ltd. Main Business

Table 188. Taiyo Yuden Co., Ltd. Latest Developments

Table 189. TDK Corporation Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 190. TDK Corporation Radio Frequency Device Product Portfolios and Specifications

Table 191. TDK Corporation Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 192. TDK Corporation Main Business

Table 193. TDK Corporation Latest Developments

Table 194. Texas Instruments Incorporated Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 195. Texas Instruments Incorporated Radio Frequency Device Product Portfolios and Specifications

Table 196. Texas Instruments Incorporated Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 197. Texas Instruments Incorporated Main Business

Table 198. Texas Instruments Incorporated Latest Developments
Table 199. Wolfspeed, Inc. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 200. Wolfspeed, Inc. Radio Frequency Device Product Portfolios and Specifications
Table 201. Wolfspeed, Inc. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 202. Wolfspeed, Inc. Main Business
Table 203. Wolfspeed, Inc. Latest Developments
Table 204. Nexperia Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 205. Nexperia Radio Frequency Device Product Portfolios and Specifications
Table 206. Nexperia Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 207. Nexperia Main Business
Table 208. Nexperia Latest Developments
Table 209. Maxscend Microelectronics Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 210. Maxscend Microelectronics Radio Frequency Device Product Portfolios and Specifications
Table 211. Maxscend Microelectronics Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 212. Maxscend Microelectronics Main Business
Table 213. Maxscend Microelectronics Latest Developments
Table 214. UNISOC Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 215. UNISOC Radio Frequency Device Product Portfolios and Specifications
Table 216. UNISOC Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 217. UNISOC Main Business
Table 218. UNISOC Latest Developments
Table 219. Vanchip (Tianjin) Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors
Table 220. Vanchip (Tianjin) Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications
Table 221. Vanchip (Tianjin) Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 222. Vanchip (Tianjin) Technology Co., Ltd. Main Business
Table 223. Vanchip (Tianjin) Technology Co., Ltd. Latest Developments

Table 224. Chengdu Gana Hivi Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 225. Chengdu Gana Hivi Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 226. Chengdu Gana Hivi Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 227. Chengdu Gana Hivi Technology Co., Ltd. Main Business

Table 228. Chengdu Gana Hivi Technology Co., Ltd. Latest Developments

Table 229. Zhejiang Chengchang Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 230. Zhejiang Chengchang Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 231. Zhejiang Chengchang Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 232. Zhejiang Chengchang Technology Co., Ltd. Main Business

Table 233. Zhejiang Chengchang Technology Co., Ltd. Latest Developments

Table 234. Zhejiang Zhenlei Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 235. Zhejiang Zhenlei Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 236. Zhejiang Zhenlei Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 237. Zhejiang Zhenlei Technology Co., Ltd. Main Business

Table 238. Zhejiang Zhenlei Technology Co., Ltd. Latest Developments

Table 239. Tuowei Electronics Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 240. Tuowei Electronics Radio Frequency Device Product Portfolios and Specifications

Table 241. Tuowei Electronics Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 242. Tuowei Electronics Main Business

Table 243. Tuowei Electronics Latest Developments

Table 244. Xingu Micro Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 245. Xingu Micro Radio Frequency Device Product Portfolios and Specifications

Table 246. Xingu Micro Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 247. Xingu Micro Main Business

Table 248. Xingu Micro Latest Developments

Table 249. Anqiwei Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 250. Anqiwei Radio Frequency Device Product Portfolios and Specifications

Table 251. Anqiwei Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 252. Anqiwei Main Business

Table 253. Anqiwei Latest Developments

Table 254. Zhongke Haigao Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 255. Zhongke Haigao Radio Frequency Device Product Portfolios and Specifications

Table 256. Zhongke Haigao Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 257. Zhongke Haigao Main Business

Table 258. Zhongke Haigao Latest Developments

Table 259. Yaguang Technology Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 260. Yaguang Technology Radio Frequency Device Product Portfolios and Specifications

Table 261. Yaguang Technology Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 262. Yaguang Technology Main Business

Table 263. Yaguang Technology Latest Developments

Table 264. Southwest Integrated Circuit Design Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 265. Southwest Integrated Circuit Design Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 266. Southwest Integrated Circuit Design Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 267. Southwest Integrated Circuit Design Co., Ltd. Main Business

Table 268. Southwest Integrated Circuit Design Co., Ltd. Latest Developments

Table 269. Shenzhen Feixiang Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 270. Shenzhen Feixiang Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 271. Shenzhen Feixiang Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 272. Shenzhen Feixiang Technology Co., Ltd. Main Business

Table 273. Shenzhen Feixiang Technology Co., Ltd. Latest Developments

Table 274. Huizhou SPEED Wireless Technology Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 275. Huizhou SPEED Wireless Technology Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 276. Huizhou SPEED Wireless Technology Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 277. Huizhou SPEED Wireless Technology Co., Ltd. Main Business

Table 278. Huizhou SPEED Wireless Technology Co., Ltd. Latest Developments

Table 279. Nengxun Gaoneng Semiconductor Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 280. Nengxun Gaoneng Semiconductor Radio Frequency Device Product Portfolios and Specifications

Table 281. Nengxun Gaoneng Semiconductor Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 282. Nengxun Gaoneng Semiconductor Main Business

Table 283. Nengxun Gaoneng Semiconductor Latest Developments

Table 284. Calterah Semiconductor Technology (Shanghai) Co., Ltd. Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 285. Calterah Semiconductor Technology (Shanghai) Co., Ltd. Radio Frequency Device Product Portfolios and Specifications

Table 286. Calterah Semiconductor Technology (Shanghai) Co., Ltd. Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 287. Calterah Semiconductor Technology (Shanghai) Co., Ltd. Main Business

Table 288. Calterah Semiconductor Technology (Shanghai) Co., Ltd. Latest Developments

Table 289. KCB Solutions Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 290. KCB Solutions Radio Frequency Device Product Portfolios and Specifications

Table 291. KCB Solutions Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 292. KCB Solutions Main Business

Table 293. KCB Solutions Latest Developments

Table 294. CETC Basic Information, Radio Frequency Device Manufacturing Base, Sales Area and Its Competitors

Table 295. CETC Radio Frequency Device Product Portfolios and Specifications

Table 296. CETC Radio Frequency Device Sales (Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 297. CETC Main Business

Table 298. CETC Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Radio Frequency Device
- Figure 2. Radio Frequency Device Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Radio Frequency Device Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Radio Frequency Device Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Radio Frequency Device Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Radio Frequency Device Sales Market Share by Country/Region (2025)
- Figure 10. Radio Frequency Device Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of RF Power Amplifier (PA)
- Figure 12. Product Picture of RF Low Noise Amplifier (LNA)
- Figure 13. Product Picture of RF Switch
- Figure 14. Product Picture of RF Filter
- Figure 15. Product Picture of RF Duplexer / Multiplexer
- Figure 16. Product Picture of Others
- Figure 17. Global Radio Frequency Device Sales Market Share by Device Type in 2026
- Figure 18. Global Radio Frequency Device Revenue Market Share by Device Type (2021-2026)
- Figure 19. Product Picture of Silicon-based
- Figure 20. Product Picture of III-V Compound
- Figure 21. Product Picture of Others
- Figure 22. Global Radio Frequency Device Sales Market Share by Material in 2026
- Figure 23. Global Radio Frequency Device Revenue Market Share by Material (2021-2026)
- Figure 24. Product Picture of Low-band RF (40 GHz)
- Figure 29. Global Radio Frequency Device Sales Market Share by Operating Band in 2026
- Figure 30. Global Radio Frequency Device Revenue Market Share by Operating Band (2021-2026)
- Figure 31. Radio Frequency Device Consumed in Consumer Electronics
- Figure 32. Global Radio Frequency Device Market: Consumer Electronics (2021-2026) & (Units)

Figure 33. Radio Frequency Device Consumed in Telecommunications

Figure 34. Global Radio Frequency Device Market: Telecommunications (2021-2026) & (Units)

Figure 35. Radio Frequency Device Consumed in Automotive

Figure 36. Global Radio Frequency Device Market: Automotive (2021-2026) & (Units)

Figure 37. Radio Frequency Device Consumed in Traditional Industrial

Figure 38. Global Radio Frequency Device Market: Traditional Industrial (2021-2026) & (Units)

Figure 39. Radio Frequency Device Consumed in Healthcare / Medical

Figure 40. Global Radio Frequency Device Market: Healthcare / Medical (2021-2026) & (Units)

Figure 41. Radio Frequency Device Consumed in Aerospace & Space

Figure 42. Global Radio Frequency Device Market: Aerospace & Space (2021-2026) & (Units)

Figure 43. Radio Frequency Device Consumed in Defense

Figure 44. Global Radio Frequency Device Market: Defense (2021-2026) & (Units)

Figure 45. Radio Frequency Device Consumed in Test & Measurement / Research

Figure 46. Global Radio Frequency Device Market: Test & Measurement / Research (2021-2026) & (Units)

Figure 47. Radio Frequency Device Consumed in Public Safety & Government

Figure 48. Global Radio Frequency Device Market: Public Safety & Government (2021-2026) & (Units)

Figure 49. Global Radio Frequency Device Sale Market Share by Application (2025)

Figure 50. Global Radio Frequency Device Revenue Market Share by Application in 2025

Figure 51. Radio Frequency Device Sales by Company in 2025 (Units)

Figure 52. Global Radio Frequency Device Sales Market Share by Company in 2025

Figure 53. Radio Frequency Device Revenue by Company in 2025 (\$ millions)

Figure 54. Global Radio Frequency Device Revenue Market Share by Company in 2025

Figure 55. Global Radio Frequency Device Sales Market Share by Geographic Region (2021-2026)

Figure 56. Global Radio Frequency Device Revenue Market Share by Geographic Region in 2025

Figure 57. Americas Radio Frequency Device Sales 2021-2026 (Units)

Figure 58. Americas Radio Frequency Device Revenue 2021-2026 (\$ millions)

Figure 59. APAC Radio Frequency Device Sales 2021-2026 (Units)

Figure 60. APAC Radio Frequency Device Revenue 2021-2026 (\$ millions)

Figure 61. Europe Radio Frequency Device Sales 2021-2026 (Units)

Figure 62. Europe Radio Frequency Device Revenue 2021-2026 (\$ millions)

Figure 63. Middle East & Africa Radio Frequency Device Sales 2021-2026 (Units)

Figure 64. Middle East & Africa Radio Frequency Device Revenue 2021-2026 (\$ millions)

Figure 65. Americas Radio Frequency Device Sales Market Share by Country in 2025

Figure 66. Americas Radio Frequency Device Revenue Market Share by Country (2021-2026)

Figure 67. Americas Radio Frequency Device Sales Market Share by Device Type (2021-2026)

Figure 68. Americas Radio Frequency Device Sales Market Share by Application (2021-2026)

Figure 69. United States Radio Frequency Device Revenue Growth 2021-2026 (\$ millions)

Figure 70. Canada Radio Frequency Device Revenue Growth 2021-2026 (\$ millions)

Figure 71. Mexico Radio Frequency Device Revenue Growth 2021-2026 (\$ millions)

Figure 72. Brazil Radio Frequency Device Revenue Growth 2021-2026 (\$ millions)

Figure 73. APAC Radio Frequency Device Sales Market Share by Region in 2025

Figure 74. APAC Radio Frequency Device Revenue Market Share by Region (2021-2026)

Figure 75. APAC Radio Frequency Device Sales Market Share by Device Type (2021-2026)

Figure 7

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