

Radio Frequency Duplexer Market Report by Type (150MHz, 450MHz, and Others), Application (Cell Phones, Tablets, Portable PCs, STBs, Modems/Dongles, Smart TVs, and Others), and Region 2024-2032

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Abstracts

The global radio frequency duplexer market size reached US\$ 9.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 21.2 Billion by 2032, exhibiting a growth rate (CAGR) of 9.6% during 2024-2032.

A radiofrequency (RF) duplexer is an electronic device that is used to simultaneously transmit and receive radio frequency signals through a common antenna port. It consists of two bandpass filters which are connected in a parallel circuit. One filter connects the transmitter with the antenna and the other connects the antenna with a receiver. RF duplexers are compact in size and ensure minimal interaction and degradation of signals. Owing to this, they find extensive applications in the manufacturing of smartphones, smart TVs, tablets, and wireless communication devices.

The growing communications sector, along with increasing usage of consumer electronics across the globe, is among the key factors driving the market growth. Furthermore, the increasing sales of smartphones have boosted the utilization of RF duplexers for improved performance, longer battery life and compatibility with features based on Artificial Intelligence (AI). Additionally, the integration of the Internet of Things (IoT) solutions across industrial, residential and consumer applications is also catalyzing the market growth. In the electronics sector, RF duplexers are used in the manufacturing of drones, smart wearables, smart home devices, driver-less cars and smart manufacturing tools. Additionally, technological advancements in the wireless

communication sector, including the deployment of 5G networks, is also acting as a major growth-inducing factor. The increasing adoption of 4G and 5G compatible communication devices is driving the demand for low-frequency antenna macro-cells for more considerable area coverage, which in turn is contributing to the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global radio frequency duplexer market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type and application.

Breakup by Type:

- 150MHz
- 450MHz
- Others

Breakup by Application:

- Cell Phones
- Tablets
- Portable PCs
- STBs
- Modems/Dongles
- Smart TVs
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being ams AG., API Technologies Corp., Bird Technologies Group Inc., Broadcom Inc., Clearcomm Technologies LLC, CTS Corporation, Johanson Technology Inc., Murata Manufacturing Co. Ltd., Oscilent Corporation, Qorvo Inc., Skyworks Solutions Inc., TDK Corporation, etc.

Key Questions Answered in This Report:

How has the global radio frequency duplexer market performed so far and how will it perform in the coming years?

What are the key regional markets?

What has been the impact of COVID-19 on the global radio frequency duplexer market?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global radio frequency duplexer market and who are the key players?

What is the degree of competition in the industry?

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