

Microwave Devices Market Report by Product Type (Passive Microwave Devices, Active Microwave Devices), Frequency (L Band, X Band, S Band, C Band, Ku Band, Ka Band, and Others), Application (Defense, Commercial, Space and Communication, and Others), and Region 2023-2028

Market Report | 2023-11-24 | 147 pages | IMARC Group

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Report description:

The global microwave devices market size reached US\$ 5.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.4 Billion by 2028, exhibiting a growth rate (CAGR) of 6.06% during 2022-2028.

Microwave devices provide high-speed wireless connections to send and receive voice, video, and data information. They are used in point-to-point connections on the surface of the Earth and satellite and deep-space radio communications. They are also utilized in radars, radio navigation systems, sensor systems, and radio astronomy. Additionally, leading players are introducing new product variants to meet the ever-changing market demands. These products include improved and expanded lines of attenuators and terminations, combine cavity filters, and directional couplers.

Microwave Devices Market Trends:

The growing prevalence of life-threatening diseases represents one of the major factors positively influencing the use of microwave devices in the healthcare industry for medical imaging, thermal ablation of tissues, and bleeding coagulation in vascular organs, such as the liver and spleen. In addition, they are utilized in advanced warming devices that find application in operating rooms, emergency settings, and intensive care units (ICUs) to provide warm fluid to patients with hypothermia or other rare conditions. Besides this, microwave communication infrastructure is used in wireless backhauls that are gaining immense traction over wireline networks across the globe. Moreover, the rising penetration of wireless communication networks is bolstering the market growth. Apart from this, high-power microwave technology finds extensive applications in the development of electromagnetic bombs during strategic and tactical information warfare. This, along with the escalating demand for enhanced

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communication services that can transfer confidential information, is driving the adoption of microwave devices for defense purposes. Furthermore, manufacturers are focusing on developing next-generation microwave devices with hybrid spin electromagnetic waves in ferrite-ferroelectric layered structures, which is projected to offer lucrative growth opportunities to market players.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global microwave devices market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, frequency and application.

Breakup by Product Type:

- Passive Microwave Devices
- Active Microwave Devices

Breakup by Frequency:

- L Band
- X Band
- S Band
- C Band
- Ku Band
- Ka Band
- Others

Breakup by Application:

- Defense
- Commercial
- Space and Communication
- Others

Breakup by Region:

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

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France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Analog Devices Inc., CPI International Inc., Kratos Defense & Security Solutions Inc., L3Harris Technologies Inc., Littelfuse Inc, MACOM Technology Solutions, Microchip Technology Inc., Qorvo Inc, Teledyne Technologies Incorporated, Thales Group and Toshiba Corporation.

Key Questions Answered in This Report

1. How big is the global microwave devices market?
2. What is the expected growth rate of the global microwave devices market during 2023-2028?
3. What are the key factors driving the global microwave devices market?
4. What has been the impact of COVID-19 on the global microwave devices market?
5. What is the breakup of the global microwave devices market based on the product type?
6. What is the breakup of the global microwave devices market based on the frequency?
7. What is the breakup of the global microwave devices market based on the application?
8. What are the key regions in the global microwave devices market?
9. Who are the key players/companies in the global microwave devices market?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Microwave Devices Market
 - 5.1 Market Overview

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- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast
- 6 Market Breakup by Product Type
 - 6.1 Passive Microwave Devices
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Active Microwave Devices
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 7 Market Breakup by Frequency
 - 7.1 L Band
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 X Band
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 S Band
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 C Band
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
 - 7.5 Ku Band
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
 - 7.6 Ka Band
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast
 - 7.7 Others
 - 7.7.1 Market Trends
 - 7.7.2 Market Forecast
- 8 Market Breakup by Application
 - 8.1 Defense
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
 - 8.2 Commercial
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
 - 8.3 Space and Communication
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
 - 8.4 Others
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 9 Market Breakup by Region
 - 9.1 North America

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- 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
- 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast

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- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast
- 10 SWOT Analysis
 - 10.1 Overview
 - 10.2 Strengths
 - 10.3 Weaknesses
 - 10.4 Opportunities
 - 10.5 Threats
- 11 Value Chain Analysis
- 12 Porters Five Forces Analysis
 - 12.1 Overview
 - 12.2 Bargaining Power of Buyers
 - 12.3 Bargaining Power of Suppliers
 - 12.4 Degree of Competition
 - 12.5 Threat of New Entrants
 - 12.6 Threat of Substitutes
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Market Structure
 - 14.2 Key Players
 - 14.3 Profiles of Key Players
 - 14.3.1 Analog Devices Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 CPI International Inc.
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Kratos Defense & Security Solutions Inc.
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio

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- 14.3.3.3 Financials
- 14.3.4 L3Harris Technologies Inc.
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
- 14.3.5 Littelfuse Inc.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
- 14.3.6 MACOM Technology Solutions
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
 - 14.3.6.3 Financials
- 14.3.7 Microchip Technology Inc.
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 Qorvo Inc.
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Teledyne Technologies Incorporated
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Thales Group
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Toshiba Corporation
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis

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