

Microwave Devices Market by Product (Active Devices, Passive Devices), Frequency (Ku-band, C-band, Ka-band, L-band, X-band, S-band), End User (Space & Communication, Military & Defense, Healthcare), and Geography - Global Forecast to 2027

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Abstracts

The microwave devices market is projected to grow from USD 6.7 billion in 2021 to USD 9.0 billion by 2027; it is expected to grow at a CAGR of 5.1% from 2021 to 2027.

The high usage of active microwave devices in various defense and space electronics has led to the segment's growth. Active devices are widely used for detecting, mixing, amplifying, filtering, and switching microwave signals in standalone equipment. The active devices segment based on type has been bifurcated into solid-state and vacuum electron microwave devices. Solid-state microwave devices accounted for the larger revenue share of the overall active microwave devices market in 2020. The solid-state microwave devices feature long life, wider bandwidths, lower production costs, improved air cooling, operate at low voltages, and enable easy control of transmitted wave form's amplitude.

“The Ka-band segment is expected to grow at the highest CAGR during the forecast period”

The Ka-band requires smaller antennas for transmitting and receiving data, offering high throughput, lower cost of bandwidth, better Effective Isotropic Radiated Power (EIRP), improved capacity, and allowing reuse of the same frequencies. The ability to adjust the uplink and downlink, as well as relatively less incurred cost, is expected to increase the deployment of Ku-band microwave devices.

“The space & communication segment is expected to grow at the highest CAGR of the microwave devices market during the forecast period.”

The increase in the number of high-throughput satellites (HTS) and rising investments in space and related exploration activities are expected to drive the growth for the space & communications segment. The growing prominence of real-time video and audio streaming services has led to an increase in the use of microwave devices. Additionally, the emergence of 5G for cellular communication is also expected to fuel the demand for microwave equipment during the forecast period.

“Asia Pacific region is expected to witness fastest growth during the forecast period.”

The presence of prominent microwave device manufacturers is expected to contribute to the revenue share of this region. Furthermore, the rapid commercialization of 5G in an attempt to cater to the rising demand for high-speed connectivity by the regional population is expected to drive the market growth over the forecast period.

Break-up of the profiles of primary participants:

By Company Type – Tier 1 – 40%, Tier 2 – 35%, and Tier 3 – 25%

By Designation – C-level – 45%, Director-level – 35%, and, Other – 20%

By Region – North America - 40%, Europe – 15%, APAC – 40%, and RoW – 5%

The key players operating in the microwave devices market include Thales Group (France), Qorvo, Inc.(US), L3 Harris Technologies (US), CPI International, Inc.(US), and Teledyne Technologies Incorporated (US).

The microwave devices market has been segmented into product, frequency, end user, and region.

Based on product the market has been segmented into active devices and passive devices. The active devices segment is further classified into solid-state and vacuum electron devices. The solid-state active devices segment is further classified by type into solid-state amplifiers and others. Furthermore, the solid-state active devices segment is classified by material into Gallium arsenide (GaAs), Silicon, Gallium Nitride (GaN), Silicon Carbide (SiC), and others. The vacuum electron active devices are segmented

into Traveling-wave Tube amplifier (TWTA), Klystron, Magnetron, crossed-field amplifier, and others. Based on frequency, the market is segmented into Ku-band, C-band, Ka-band, L-band, S-band, X-band, and others. Based on end user, the market is segmented into. The microwave devices market has been studied for North America, Europe, Asia Pacific (APAC), and the Rest of the World (RoW).

Reasons to buy the report:

Illustrative segmentation, analysis, and forecast of the market based on product, frequency, end user, and region have been conducted to give an overall view of the microwave devices market.

A value chain analysis has been performed to provide in-depth insights into the microwave devices market.

The key drivers, restraints, opportunities, and challenges pertaining to the microwave devices market have been detailed in this report.

Detailed information regarding the COVID-19 impact on the microwave devices market has been provided in the report.

The report includes a detailed competitive landscape of the market, along with key players, as well as in-depth analysis of their revenues

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TABLE 96 QORVO, INC: BUSINESS OVERVIEW

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11.1.9 GENERAL DYNAMICS CORPORATION

TABLE 100 GENERAL DYNAMICS CORPORATION: BUSINESS OVERVIEW

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11.1.10 HONEYWELL INTERNATIONAL INC.

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11.2 OTHER PLAYERS

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11.2.2 TEXAS INSTRUMENTS INCORPORATED

11.2.3 API MICROELECTRONICS

- 11.2.4 ASTRA MICROWAVE PRODUCTS LIMITED
- 11.2.5 CYTEC CORPORATION
- 11.2.6 KRATOS DEFENSE AND SECURITY SOLUTIONS INC.
- 11.2.7 MACOM
- 11.2.8 MICROCHIP TECHNOLOGY INC
- 11.2.9 MICROWAVE TECHNOLOGIES
- 11.2.10 MITSUBISHI ELECTRIC CORPORATION
- 11.2.11 PANASONIC CORPORATION
- 11.2.12 SYLATECH
- 11.2.13 TMD TECHNOLOGIES LTD.
- 11.2.14 TRITON SERVICES, INC.
- 11.2.15 WOLFSPEED INC.

*Details on Business Overview, Products/ Solutions Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

12 APPENDIX

- 12.1 DISCUSSION GUIDE
- 12.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 12.3 AVAILABLE CUSTOMIZATIONS
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About

The report provides a complete analysis of the global microwave devices market over the next five years. It analyzes the drivers of the market, the challenges faced by the industry, and the factors that restrain growth of the market. The report will also discuss the key industry, market, and technology trends that influence the global microwave devices market, covering the following parameters.

- It provides a market size of the global microwave devices market over the next five years, and explains about the market size by type and application
- It provides an insight into the regional trends, in terms of the spending in the market share by region
- It talks about leading competitors in this market. Apart from a general overview of the companies, it also provides the details of their financial position, key products and markets, key developments, and market strategies

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