

RF Signal Chain Component Market by Product (Filters, RF Amplifiers, Mixers, Power Dividers, Switches, Couplers, Phase Shifters), Frequency Band (Ku, Ka, L, S,C), Material (Gallium Arsenide, Gallium Nitride, Silicon, Silicon Germanium), Application and Region - Global Forecast to 2028

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Abstracts

RF signal chain components market size is valued at USD 38.9 billion in 2022 and is anticipated to be USD 80.0 billion by 2028; growing at a CAGR of 12.3% from 2023 to 2028. The growing demand of factors such as increasing investments in 5G infrastructure development.

Growing SATCOM applications to have significant market size during the forecast period.

In the space application, RF components are used in various broadband satellite communication (SATCOM) systems. Different remote systems operate thousands of miles from the Earth's surface and are rarely accessible once launched; hence, they must be reliable and efficient to operate in space. These systems have to perform several functions, such as relaying communication signals, transmitting precise navigation signals, monitoring weather conditions, pinpointing activities on the Earth, providing strategic warnings, and exploring the solar system.

Growing deployment of Indium phosphide (InP) in RF devices to grow significantly during the forecast period.

Indium phosphide (InP) is one of the major semiconductor materials used in developing

optical systems to deliver the required performance in mobile backhaul, data centers, and metro and long-haul network applications. It has been used in the field of optoelectronics for a long time. The use of indium phosphide RF components enables efficient fiber communication.

X band is expected to have significant market size during the forecast period.

X band frequencies range from 8 to 12 GHz. X band frequencies are highly sensitive and capable of detecting small particles and are often used by radars. The X band is used in continuous wave, pulsed, single and dual-polarized, and phased array applications. The short wavelength of this band allows high-resolution imagery for target discrimination and identification. With a wavelength of 2.5 to 3.8 cm, the X band is used by civil, military, and government institutions for air traffic control, weather monitoring, surveillance, maritime vessel traffic control, and vehicle speed detection. The shorter wavelengths of the X band allow for higher-resolution imagery from high-resolution imaging radars for target identification and discrimination.

Couplers to have significant market in North America during the forecast period.

The market for couplers in North America is expected to grow with a significant CAGR during the forecast period attributed to the rollout of 5G networks. 5G technology requires a denser network infrastructure with more base stations and small cells. Couplers are needed in various aspects of 5G networks, including signal distribution, signal monitoring, and testing. The ongoing deployment of 5G in North America is fueling the regional coupler market growth.

Europe to have second second-largest market growth during the forecast period.

Europe is taking significant steps toward 5G deployment. The European Commission identifies 5G standards as one of the priorities. The rollout of 5G with improved coverage has already started in this region. The availability of a significant number of devices at various prices, increasing installation of IoT devices, and growing use of music and video streaming services are among a few factors driving the adoption of 5G devices in Europe. With the commercialization of the 5G network and the rise in the adoption of 5G-enabled devices, overall data usage and speed are expected to increase rapidly across Europe.

The breakup of primaries conducted during the study is depicted below:

By Company Type: Tier 1 – 38 %, Tier 2 – 28%, and Tier 3 –34%

By Designation: C-Level Executives – 40%, Directors – 30%, and Others – 30%

By Region: North America– 35%, Europe – 20%, Asia Pacific – 35%, RoW – 10%

The key players operating in the RF signal chain components market are Qorvo, Inc. (US), Murata Manufacturing Co., Ltd. (Japan), Skyworks Solutions, Inc. (US), Broadcom (US), Analog Devices, Inc. (US), NXP Semiconductors (Netherlands), STMicroelectronics (Switzerland), CPI International (US), National Instruments Corp. (US), MACOM (US), Infineon Technologies AG (Germany), Mitsubishi Electric (Japan), Texas Instruments (TI) (US), Cobham Limited (UK), Astra Microwave Products Limited (India), Microchip Technology Inc. (US), MicroWave Technology, Inc. (US), Panasonic Holdings Corporation (Japan), Raytheon Technologies (US), Wolfspeed (US), APITech (US), Sumitomo Electric Industries, Ltd. (Japan), RFHIC Corporation (South Korea), Thales (France), VectraWave (France).

The report defines, describes, and forecasts the RF signal chain component market based on product, material, frequency, application and region. It provides detailed information regarding drivers, restraint, opportunities, and challenges influencing the growth of RF signal chain component market. It also analyzes competitive developments such as product launches, acquisition, expansion contract, partnership and action carry out by the key players to grow the market.

Reasons to Buy This Report

The report will help the market leaders/new entrants in the market with information on the closest approximations of the revenue for the overall RF signal chain component market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insight to position their business better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key drivers, restraint, opportunities, and challenge.

The report will provide insights into the following pointers:

Analysis of key drivers (Increasing demand for RF component in aerospace &

defense industry), restraints (Increasing cost of RF devices with performance improvements), opportunities (Increasing number of space programs worldwide), and challenges (Regulatory barriers)

Product development /Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the RF signal chain component market.

Market Development: Comprehensive information about lucrative markets; the report analyses the RF signal chain component market across various regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the RF signal chain component market.

Competitive Assessment: In-depth assessment of market share, growth strategies, and services, offering of leading players like Qorvo, Inc. (US), Murata Manufacturing Co., Ltd. (Japan), Skyworks Solutions, Inc. (US), Analog Devices, Inc. (US), among others in RF signal chain component market.

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