

Global 5G mmWave RF Front-End Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 5G mmWave RF Front-End Module market size was valued at US\$ 4322 million in 2025 and is forecast to a readjusted size of US\$ 7237 million by 2032 with a CAGR of 7.6% during review period.

In 2025, global 5G mmWave RF Front-End Module production reached approximately 233.33 million units, with an average global market price of around US\$18 per unit.

The gross profit margin of major companies in the industry is between 28%-48%.

In 2025, the global production capacity of 5G mmWave RF Front-End Module was approximately 311.11 million units.

5G mmWave RF Front-End Module is a radio frequency component used in millimeter-wave communication devices to support signal transmission, reception, amplification, filtering, switching, and beam control. It integrates power amplifiers, low-noise amplifiers, filters, switches, phase shifters, antennas, and packaging structures for 5G smartphones, fixed wireless access, base stations, and high-speed terminals.

The industrial chain of 5G mmWave RF Front-End Module covers upstream wafers, radio frequency chips, filters, antennas, substrates, packaging materials, passive components, test sockets, and simulation software. The midstream consists of chip design, module packaging, antenna integration, circuit tuning, radio frequency testing, reliability testing, and mass production validation. Downstream applications mainly include 5G smartphones, fixed wireless access devices, base stations, customer premises equipment, industrial terminals, connected vehicles, and high-speed

communication equipment.

This report is a detailed and comprehensive analysis for global 5G mmWave RF Front-End Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 5G mmWave RF Front-End Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G mmWave RF Front-End Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G mmWave RF Front-End Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 5G mmWave RF Front-End Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 5G mmWave RF Front-End Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 5G mmWave RF Front-End Module market

based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, Qorvo, Skyworks Solutions, Broadcom, Murata Manufacturing, pSemi, Analog Devices, NXP Semiconductors, Movandi, BeammWave, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

5G mmWave RF Front-End Module market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Power Amplifier Module

Low-Noise Amplifier Module

Integrated RF Front-End Module

Market segment by Packaging Type

Antenna-in-Package Module

System-in-Package Module

Discrete RF Front-End Module

Market segment by Operating Frequency

Low mmWave Band (24-30GHz)

Medium mmWave Band (30-40GHz)

High mmWave Band (>40GHz)

Market segment by Application

Enhanced Mobile Broadband

Fixed Wireless Access

Private 5G Networks

Other

Major players covered

Qualcomm

Qorvo

Skyworks Solutions

Broadcom

Murata Manufacturing

pSemi

Analog Devices

NXP Semiconductors

Movandi

BeamWave

Samsung Electronics

MediaTek

Intel

Anokiwave

Infineon Technologies

Doosan

Huawei HiSilicon

Smarter Microelectronics

Lansus Technologies

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 5G mmWave RF Front-End Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G mmWave RF Front-End Module, with price, sales quantity, revenue, and global market share of 5G

mmWave RF Front-End Module from 2021 to 2026.

Chapter 3, the 5G mmWave RF Front-End Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 5G mmWave RF Front-End Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 5G mmWave RF Front-End Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 5G mmWave RF Front-End Module.

Chapter 14 and 15, to describe 5G mmWave RF Front-End Module sales channel, distributors, customers, research findings and conclusion.

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