

Global 5G mmWave RF Front-End Module Market Growth 2026-2032

<https://marketpublishers.com/r/G1425F92785BEN.html>

Date: July 2026

Pages: 131

Price: US\$ 3,660.00 (Single User License)

ID: G1425F92785BEN

Abstracts

The global 5G mmWave RF Front-End Module market size is predicted to grow from US\$ 4109 million in 2025 to US\$ 7064 million in 2032; it is expected to grow at a CAGR of 8.1% from 2026 to 2032.

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.

United States market for 5G mmWave RF Front-End Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 5G mmWave RF Front-End Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 5G mmWave RF Front-End Module is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 5G mmWave RF Front-End Module players cover Qualcomm, Qorvo, Skyworks Solutions, Broadcom, Murata Manufacturing, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "5G mmWave RF Front-End Module Industry Forecast" looks at past sales and reviews total world 5G mmWave RF Front-End Module sales in 2025, providing a comprehensive analysis by region and market sector of projected 5G mmWave RF Front-End Module sales for 2026 through 2032. With 5G mmWave RF Front-End Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 5G mmWave RF Front-End Module industry.

This Insight Report provides a comprehensive analysis of the global 5G mmWave RF Front-End Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 5G mmWave RF Front-End Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 5G mmWave RF Front-End Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 5G mmWave RF Front-End Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 5G mmWave RF Front-End Module.

This report presents a comprehensive overview, market shares, and growth opportunities of 5G mmWave RF Front-End Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Power Amplifier Module

Low-Noise Amplifier Module

Integrated RF Front-End Module

Segmentation by Packaging Type:

Antenna-in-Package Module

System-in-Package Module

Discrete RF Front-End Module

Segmentation by Operating Frequency:

Low mmWave Band (24-30GHz)

Medium mmWave Band (30-40GHz)

High mmWave Band (>40GHz)

Segmentation by Application:

Enhanced Mobile Broadband

Fixed Wireless Access

Private 5G Networks

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Qualcomm

Qorvo

Skyworks Solutions

Broadcom

Murata Manufacturing

pSemi

Analog Devices

NXP Semiconductors

Movandi

BeammWave

Samsung Electronics

MediaTek

Intel

Anokiwave

Infineon Technologies

Doosan

Huawei HiSilicon

Smarter Microelectronics

Lansus Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global 5G mmWave RF Front-End Module market?

What factors are driving 5G mmWave RF Front-End Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 5G mmWave RF Front-End Module market opportunities vary by end market size?

How does 5G mmWave RF Front-End Module break out by Type, by Application?

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