

Global 5G mmWave RF Front-End Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5G mmWave RF Front-End Module market size is expected to reach \$ 7237 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global 5G mmWave RF Front-End Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5G mmWave RF Front-End Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 5G mmWave RF Front-End Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5G mmWave RF Front-End Module total production and demand, 2021-2032, (K Units)

Global 5G mmWave RF Front-End Module total production value, 2021-2032, (USD Million)

Global 5G mmWave RF Front-End Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 5G mmWave RF Front-End Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 5G mmWave RF Front-End Module domestic production, consumption, key domestic manufacturers and share

Global 5G mmWave RF Front-End Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 5G mmWave RF Front-End Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 5G mmWave RF Front-End Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 5G mmWave RF Front-End Module market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World 5G mmWave RF Front-End Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 5G mmWave RF Front-End Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G mmWave RF Front-End Module Market, Segmentation by Type:

Power Amplifier Module

Low-Noise Amplifier Module

Integrated RF Front-End Module

Global 5G mmWave RF Front-End Module Market, Segmentation by Packaging Type:

Antenna-in-Package Module

System-in-Package Module

Discrete RF Front-End Module

Global 5G mmWave RF Front-End Module Market, Segmentation by Operating Frequency:

Low mmWave Band (24-30GHz)

Medium mmWave Band (30-40GHz)

High mmWave Band (>40GHz)

Global 5G mmWave RF Front-End Module Market, Segmentation by Application:

Enhanced Mobile Broadband

Fixed Wireless Access

Private 5G Networks

Other

Companies Profiled:

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 Answered:

1. How big is the global 5G mmWave RF Front-End Module market?
2. What is the demand of the global 5G mmWave RF Front-End Module market?
3. What is the year over year growth of the global 5G mmWave RF Front-End Module market?
4. What is the production and production value of the global 5G mmWave RF Front-End Module market?
5. Who are the key producers in the global 5G mmWave RF Front-End Module market?
6. What are the growth factors driving the market demand?

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