

Global 5G mmWave Chipset Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5G mmWave Chipset market size is expected to reach \$ 668 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global 5G mmWave chipset production reached approximately 1.28 m units, the average price is 320 usd/unit. 5G mmWave chipset refers to the core integrated circuit set dedicated to realizing the communication function of 5G millimeter wave frequency band (usually refers to the range of 24GHz to 100GHz). It is usually integrated in mobile phones and other terminal equipment, including millimeter wave RF transceiver, antenna tuner, beamforming controller and related baseband processing unit and other key components, responsible for completing the generation, modulation, transmission, reception, demodulation and fast and accurate control of beam pointing of high frequency signals, which is the key hardware foundation for realizing 5G ultra-high bandwidth and ultra-low delay.

Market Concentration and Key Players:

Internationally, the market concentration of 5G millimeter wave chipset is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, large manufacturers such as Qualcomm and MediaTek; domestically, manufacturers of 5G millimeter wave chipsets include Huawei, etc.

Manufacturing Processes and Market Trends:

The manufacture of 5G millimeter wave chipsets is a cutting-edge semiconductor process. At its core is the use of compound semiconductor materials such as gallium arsenide or gallium nitride to fabricate RF front ends because these materials have

excellent electron transport characteristics at high frequencies. The manufacturing process begins with sophisticated wafer processing, which uses thin film deposition, photolithography and etching to build extremely fine transistor and circuit structures on wafers. These chip-carrying wafers are then diced into dies and highly integrated into a tiny module by advanced packaging techniques such as antenna packaging or fan-out packaging, which is key to ensuring high frequency signal integrity and compact design.

The current market trend is unfolding with the deep deployment of 5G networks. The initial application focuses on smart phones and fixed wireless access terminals, and the penetration into high-end IoT devices, extended reality devices and autonomous vehicles will accelerate in the future. The main line of technology evolution is to continuously improve integration to reduce cost and size, and enhance the agility and accuracy of beamforming. Energy efficiency and thermal management are ongoing challenges that drive innovation in chip design and packaging technology. At the same time, in order to further reduce deployment costs, chipsets are moving towards supporting more frequency bands and higher carrier aggregation capabilities, and actively exploring convergence with sensing technologies. Overall, the market is moving from early high-end applications to a broader, more efficient and smarter scale commercial phase.

This report studies the global 5G mmWave Chipset production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5G mmWave Chipset 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 Chipset that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5G mmWave Chipset total production and demand, 2021-2032, (Million Units)

Global 5G mmWave Chipset total production value, 2021-2032, (USD Million)

Global 5G mmWave Chipset production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global 5G mmWave Chipset consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: 5G mmWave Chipset domestic production, consumption, key domestic manufacturers and share

Global 5G mmWave Chipset production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global 5G mmWave Chipset production by Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global 5G mmWave Chipset production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global 5G mmWave Chipset 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 (USA), Samsung (South Korea), Huawei (China), Nokia (Finland), MediaTek (Taiwan), Qorvo (USA), Analog Devices (USA), NXP Semiconductors (Netherlands), Marvell (USA), Renesas (Japan), 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 Chipset market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Frequency Band, 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 Chipset Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G mmWave Chipset Market, Segmentation by Frequency Band:

24GHz-39GHz

40GHz-57GHz

Above 57GHz

Global 5G mmWave Chipset Market, Segmentation by Deployment Side:

Terminal Chipset

Network Side Chipset

Global 5G mmWave Chipset Market, Segmentation by Function:

Modem Chip

Millimeter Wave Transceiver Chip

Beamforming Chip

RF Front-end Chip

Global 5G mmWave Chipset Market, Segmentation by Application:

Industrial

Education

Automobile

Transportation

Public Safety

Healthcare

Other

Companies Profiled:

Qualcomm (USA)

Samsung (South Korea)

Huawei (China)

Nokia (Finland)

MediaTek (Taiwan)

Qorvo (USA)

Analog Devices (USA)

NXP Semiconductors (Netherlands)

Marvell (USA)

Renesas (Japan)

MACOM (USA)

MixComm (USA)

Sivers Semiconductor (Sweden)

Movandi (USA)

Anokiwave (USA)

Key Questions Answered:

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

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