

# Global 5G mmWave Small Cell Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 5G mmWave Small Cell market size is expected to reach \$ 2564 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032). 5G millimeter-wave small base stations are high-frequency micro-cell access devices that support millimeter-wave band communication. They meet the demands of ultra-high-density hotspot traffic and low-latency scenarios by achieving high bandwidth and ultra-high-speed data transmission in the high-spectrum band. This represents a crucial node in the evolution of 5G networks towards higher capacity and lower latency. Based on industry planning and hotspot deployment schedules, global sales of 5G millimeter-wave small base stations are estimated at approximately 128,000 units in 2025, with an average unit price of approximately US\$11,800. Affected by the supply of high-end RF components and the pace of system integration, the overall capacity utilization rate is estimated at approximately 68.2%, and the industry gross profit margin is between 22% and 34%. Upstream companies mainly come from millimeter-wave RF front-end modules, filters and antenna arrays, waveguides and beamforming devices, high-speed baseband and DSP chips, heat dissipation and precision structural components. Downstream companies mainly include communication network integrators, operator deployment and optimization teams, indoor distribution and coverage solution providers, and large venue and enterprise private network deployment units. In the product cost structure, millimeter-wave RF front-end and antenna array account for approximately 42%, high-speed baseband and processing chips for approximately 24%, structural components and heat dissipation systems for approximately 13%, power supply and interconnect for approximately 9%, software and debugging services for approximately 7%, and testing, quality assurance, and logistics for approximately 5%. Classified by parameters, millimeter-wave small base stations can be categorized into low-frequency and high-frequency bands based on frequency bandwidth; by antenna array size, they can be categorized into small, medium, and large arrays; and by application scenario,

they can be categorized into outdoor coverage, indoor dense coverage, and customized private networks. On the demand side, the downstream demand list includes high-capacity coverage in urban hotspots, high-density access in stadiums and convention centers, high-bandwidth interconnection of private networks in industrial parks, data backhaul for intelligent transportation and autonomous driving perception, and support for ultra-high bandwidth application scenarios such as AR and VR. The downstream customer list includes mobile communication operators and their construction and maintenance teams, system integrators, sports and cultural tourism venue operators, enterprise private network service providers, and digital infrastructure departments for industrial digitalization and smart parks. In terms of business opportunities, policy-driven factors are reflected in the continuous advancement of ultra-broadband communication infrastructure construction and digital economy development strategies, as well as planning requirements for optimizing high spectrum utilization and green telecommunications. Technological innovation-driven factors are concentrated in more energy-efficient millimeter-wave integrated radio frequency modules, dynamic beamforming and intelligent spectrum scheduling algorithms, and improved coordination and scheduling capabilities with existing networks. Changes in consumer demand are reflected in the growing demand from end users for higher speeds, lower latency, and more stable connections, thereby promoting the accelerated deployment and large-scale application of 5G millimeter-wave small base stations in high-traffic hotspots, dense indoor environments, and enterprise private network scenarios.

5G is a key and cross-age technology that opens the era of the Internet of Everything, and all countries are grabbing market share. The Global Mobile Economy Development Report 2023 released by GSMA Intelligence pointed out that by the end of 2022, the number of global mobile users would exceed 5.4 billion. The mobile ecosystem supports 16 million jobs directly and 12 million jobs indirectly. China is a leader in 5G technology. According to the latest statistics from the Ministry of Industry and Information Technology, China newly added 887,000 5G base stations in 2022 (currently reaching 2.312 million, accounting for more than 60% of the world's total), and 110 cities in China have reached gigabit city construction standard. According to the Digital China Development Report (2022) released by the State Internet Information Office, by the end of 2022, China had built a total of 2.312 million 5G base stations, with 561 million 5G users, accounting for more than 60% of the world.

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

This report is a detailed and comprehensive analysis of the world market for 5G mmWave Small Cell 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 Small Cell that

contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 5G mmWave Small Cell total production and demand, 2021-2032, (K Units)

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

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

Global 5G mmWave Small Cell consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global 5G mmWave Small Cell production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global 5G mmWave Small Cell 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 ArrayComm, Airspan, Qucell, Sercomm, H3C, Samsung, Huawei, Ericsson, Nokia, ZTE, 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 Small Cell 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 Small Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 5G mmWave Small Cell Market, Segmentation by Type:

Integrated Small Cell

Distributed Small Cell

#### Global 5G mmWave Small Cell Market, Segmentation by Carrier:

Single Carrier Base Station

Multi Carrier Base Station

#### Global 5G mmWave Small Cell Market, Segmentation by Distributed Type:

Integrated 5G Small Cell

Distributed 5G Small Cell

#### Global 5G mmWave Small Cell Market, Segmentation by Application:

Residential

Commercial

Industrial

Other

**Companies Profiled:**

ArrayComm

Airspan

Qucell

Sercomm

H3C

Samsung

Huawei

Ericsson

Nokia

ZTE

CICT

Comba

UNIS

Gongjin Electronics

Sunsea Group

Super Telecom

**Key Questions Answered:**

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

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