

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

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Abstracts

The global 5G mmWave Antennas market size is expected to reach \$ 41220 million by 2032, rising at a market growth of 55.5% CAGR during the forecast period (2026-2032). 5G mmWave antennas are radio frequency radiation and beamforming units targeting the high-frequency bands of 5G New Radio (NR). They typically operate in the millimeter-wave frequency bands defined by 3GPP and are used to achieve high-bandwidth, narrow-beam, and multi-user MIMO connections at the terminal and base station sides. On the terminal side, Qualcomm's QTM series modules (such as QTM545 and QTM565) are known as fifth-generation 5G millimeter-wave antenna modules. They integrate phased arrays, transceiver front-ends, and power management into a compact package, providing extended millimeter-wave band support and power optimization for mobile terminals such as smartphones.

From a product classification perspective, the first category is terminal-side packaged antenna modules, including AiP or antenna-integrated modules used in mobile phones, portable terminals, and CPEs. This category is provided by Qualcomm, pSemi, Murata, and manufacturers responsible for packaging and module integration, such as USI and advanced packaging companies. The second category is network-side phased array panels and waveguide antenna solutions. For example, Gapwaves provides high-efficiency millimeter-wave phased array platforms for 5G base stations, indoor solutions, and fixed wireless access terminals. Its proprietary waveguide technology emphasizes low loss, high integration, and good heat dissipation. The third category is external and custom millimeter-wave antennas and subsystems. For example, Taoglas provides external 5G antennas that can operate down to the millimeter-wave band for high-throughput wireless connectivity, fixed wireless access, and point-to-point links.

In 2025, global 5G mmWave Antenna sales reached approximately 404,267 K Units, with an average global market price of around 4.4 US\$/Units. Production capacity reached 500,000 K Units, with a gross profit margin of approximately 40%.

Global 5G mmWave Antennas key players include Qualcomm Technologies, Universal Scientific Industrial (USI), Taoglas, Fujikura and Murata (pSemi), etc. Global top five manufacturers hold a share above 95%.

The largest market is North America, has a share above 65%, followed by Europe and Asia-Pacific, with around 3% and 30% market share respectively.

In terms of product, n257 is the largest segment, with a share over 75%. And in terms of application, the largest application is 5G mmWave Smart Phone, accounting for over 80% of the market. followed by Routers & CPE, and 5G mmWave Base Station, etc. Flagship smartphones widely adopt millimeter-wave antenna module solutions. Some models have been confirmed to use millimeter-wave antenna modules developed by USI during teardowns, while many others still use Qualcomm's QTM5x5 series AiP solution. On the infrastructure side, operators and equipment manufacturers are building macro base stations, small base stations, indoor distributed systems, and fixed wireless access networks by using Gapwaves' phased array panels, the millimeter-wave phased array modules jointly developed by Movandi and Doosan, and ALCAN's indoor LCD arrays. As millimeter-wave deployment extends from densely populated urban areas to indoor enterprises, industrial parks, and connected vehicle scenarios, the value chain is expected to shift from simple hardware supply to a collaborative model of 'chip + packaging module + system integration,' providing antenna and module manufacturers with cross-layer design and verification capabilities with greater bargaining power.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 5G mmWave Antennas 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 Technologies, Universal Scientific Industrial (USI), Taoglas, Fujikura, Murata (pSemi), ALCAN Systems GmbH, Gapwaves, KREEMO, CoreIoT Technologies, Movandi, 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 Antennas 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 Antennas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G mmWave Antennas Market, Segmentation by Type:

n258

n257

n260

n261

Global 5G mmWave Antennas Market, Segmentation by mmWave Band:

24.25-27.5 GHz

27.5-28.35 GHz

26.5-29.5 GHz

37-40 GHz

Global 5G mmWave Antennas Market, Segmentation by Radiation Pattern:

Directional Antenna

Omnidirectional Antenna

Global 5G mmWave Antennas Market, Segmentation by Application:

5G mmWave Smart Phone

5G mmWave Base Station

Routers & CPE

Others

Companies Profiled:

Qualcomm Technologies

Universal Scientific Industrial (USI)

Taoglas

Fujikura

Murata (pSemi)

ALCAN Systems GmbH

Gapwaves

KREEMO

CoreloT Technologies

Movandi

Millimeter Wave Products Inc (Mi-Wave)

Doosan Corporation

Suzhou Maswell Communication Technology

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 5G mmWave Antennas Introduction
- 1.2 World 5G mmWave Antennas Supply & Forecast
 - 1.2.1 World 5G mmWave Antennas Production Value (2021 & 2025 & 2032)
 - 1.2.2 World 5G mmWave Antennas Production (2021-2032)
 - 1.2.3 World 5G mmWave Antennas Pricing Trends (2021-2032)
- 1.3 World 5G mmWave Antennas Production by Region (Based on Production Site)
 - 1.3.1 World 5G mmWave Antennas Production Value by Region (2021-2032)
 - 1.3.2 World 5G mmWave Antennas Production by Region (2021-2032)
 - 1.3.3 World 5G mmWave Antennas Average Price by Region (2021-2032)
 - 1.3.4 North America 5G mmWave Antennas Production (2021-2032)
 - 1.3.5 Europe 5G mmWave Antennas Production (2021-2032)
 - 1.3.6 China 5G mmWave Antennas Production (2021-2032)
 - 1.3.7 Japan 5G mmWave Antennas Production (2021-2032)
 - 1.3.8 China Taiwan 5G mmWave Antennas Production (2021-2032)
 - 1.3.9 South Korea 5G mmWave Antennas Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 5G mmWave Antennas Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 5G mmWave Antennas Major Market Trends

2 DEMAND SUMMARY

- 2.1 World 5G mmWave Antennas Demand (2021-2032)
- 2.2 World 5G mmWave Antennas Consumption by Region
 - 2.2.1 World 5G mmWave Antennas Consumption by Region (2021-2026)
 - 2.2.2 World 5G mmWave Antennas Consumption Forecast by Region (2027-2032)
- 2.3 United States 5G mmWave Antennas Consumption (2021-2032)
- 2.4 China 5G mmWave Antennas Consumption (2021-2032)
- 2.5 Europe 5G mmWave Antennas Consumption (2021-2032)
- 2.6 Japan 5G mmWave Antennas Consumption (2021-2032)
- 2.7 South Korea 5G mmWave Antennas Consumption (2021-2032)
- 2.8 ASEAN 5G mmWave Antennas Consumption (2021-2032)
- 2.9 India 5G mmWave Antennas Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 5G mmWave Antennas Production Value by Manufacturer (2021-2026)
- 3.2 World 5G mmWave Antennas Production by Manufacturer (2021-2026)
- 3.3 World 5G mmWave Antennas Average Price by Manufacturer (2021-2026)
- 3.4 5G mmWave Antennas Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 5G mmWave Antennas Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 5G mmWave Antennas in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 5G mmWave Antennas in 2025
- 3.6 5G mmWave Antennas Market: Overall Company Footprint Analysis
 - 3.6.1 5G mmWave Antennas Market: Region Footprint
 - 3.6.2 5G mmWave Antennas Market: Company Product Type Footprint
 - 3.6.3 5G mmWave Antennas Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: 5G mmWave Antennas Production Value Comparison
 - 4.1.1 United States VS China: 5G mmWave Antennas Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 5G mmWave Antennas Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 5G mmWave Antennas Production Comparison
 - 4.2.1 United States VS China: 5G mmWave Antennas Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: 5G mmWave Antennas Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: 5G mmWave Antennas Consumption Comparison
 - 4.3.1 United States VS China: 5G mmWave Antennas Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: 5G mmWave Antennas Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based 5G mmWave Antennas Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 5G mmWave Antennas Production Value (2021-2026)

4.4.3 United States Based Manufacturers 5G mmWave Antennas Production (2021-2026)

4.5 China Based 5G mmWave Antennas Manufacturers and Market Share

4.5.1 China Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 5G mmWave Antennas Production Value (2021-2026)

4.5.3 China Based Manufacturers 5G mmWave Antennas Production (2021-2026)

4.6 Rest of World Based 5G mmWave Antennas Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 5G mmWave Antennas Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 5G mmWave Antennas Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 5G mmWave Antennas Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 n258

5.2.2 n257

5.2.3 n260

5.2.4 n261

5.3 Market Segment by Type

5.3.1 World 5G mmWave Antennas Production by Type (2021-2032)

5.3.2 World 5G mmWave Antennas Production Value by Type (2021-2032)

5.3.3 World 5G mmWave Antennas Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MMWAVE BAND

6.1 World 5G mmWave Antennas Market Size Overview by mmWave Band: 2021 VS 2025 VS 2032

6.2 Segment Introduction by mmWave Band

6.2.1 24.25-27.5 GHz

6.2.2 27.5-28.35 GHz

6.2.3 26.5-29.5 GHz

6.2.4 37-40 GHz

6.3 Market Segment by mmWave Band

6.3.1 World 5G mmWave Antennas Production by mmWave Band (2021-2032)

6.3.2 World 5G mmWave Antennas Production Value by mmWave Band (2021-2032)

6.3.3 World 5G mmWave Antennas Average Price by mmWave Band (2021-2032)

7 MARKET ANALYSIS BY RADIATION PATTERN

7.1 World 5G mmWave Antennas Market Size Overview by Radiation Pattern: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Radiation Pattern

7.2.1 Directional Antenna

7.2.2 Omnidirectional Antenna

7.3 Market Segment by Radiation Pattern

7.3.1 World 5G mmWave Antennas Production by Radiation Pattern (2021-2032)

7.3.2 World 5G mmWave Antennas Production Value by Radiation Pattern (2021-2032)

7.3.3 World 5G mmWave Antennas Average Price by Radiation Pattern (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 5G mmWave Antennas Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 5G mmWave Smart Phone

8.2.2 5G mmWave Base Station

8.2.3 Routers & CPE

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World 5G mmWave Antennas Production by Application (2021-2032)

8.3.2 World 5G mmWave Antennas Production Value by Application (2021-2032)

8.3.3 World 5G mmWave Antennas Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Qualcomm Technologies

9.1.1 Qualcomm Technologies Details

9.1.2 Qualcomm Technologies Major Business

9.1.3 Qualcomm Technologies 5G mmWave Antennas Product and Services

9.1.4 Qualcomm Technologies 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Qualcomm Technologies Recent Developments/Updates

9.1.6 Qualcomm Technologies Competitive Strengths & Weaknesses

9.2 Universal Scientific Industrial (USI)

9.2.1 Universal Scientific Industrial (USI) Details

9.2.2 Universal Scientific Industrial (USI) Major Business

9.2.3 Universal Scientific Industrial (USI) 5G mmWave Antennas Product and Services

9.2.4 Universal Scientific Industrial (USI) 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Universal Scientific Industrial (USI) Recent Developments/Updates

9.2.6 Universal Scientific Industrial (USI) Competitive Strengths & Weaknesses

9.3 Taoglas

9.3.1 Taoglas Details

9.3.2 Taoglas Major Business

9.3.3 Taoglas 5G mmWave Antennas Product and Services

9.3.4 Taoglas 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Taoglas Recent Developments/Updates

9.3.6 Taoglas Competitive Strengths & Weaknesses

9.4 Fujikura

9.4.1 Fujikura Details

9.4.2 Fujikura Major Business

9.4.3 Fujikura 5G mmWave Antennas Product and Services

9.4.4 Fujikura 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Fujikura Recent Developments/Updates

9.4.6 Fujikura Competitive Strengths & Weaknesses

9.5 Murata (pSemi)

9.5.1 Murata (pSemi) Details

9.5.2 Murata (pSemi) Major Business

9.5.3 Murata (pSemi) 5G mmWave Antennas Product and Services

9.5.4 Murata (pSemi) 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Murata (pSemi) Recent Developments/Updates

- 9.5.6 Murata (pSemi) Competitive Strengths & Weaknesses
- 9.6 ALCAN Systems GmbH
 - 9.6.1 ALCAN Systems GmbH Details
 - 9.6.2 ALCAN Systems GmbH Major Business
 - 9.6.3 ALCAN Systems GmbH 5G mmWave Antennas Product and Services
 - 9.6.4 ALCAN Systems GmbH 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 ALCAN Systems GmbH Recent Developments/Updates
 - 9.6.6 ALCAN Systems GmbH Competitive Strengths & Weaknesses
- 9.7 Gapwaves
 - 9.7.1 Gapwaves Details
 - 9.7.2 Gapwaves Major Business
 - 9.7.3 Gapwaves 5G mmWave Antennas Product and Services
 - 9.7.4 Gapwaves 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Gapwaves Recent Developments/Updates
 - 9.7.6 Gapwaves Competitive Strengths & Weaknesses
- 9.8 KREEMO
 - 9.8.1 KREEMO Details
 - 9.8.2 KREEMO Major Business
 - 9.8.3 KREEMO 5G mmWave Antennas Product and Services
 - 9.8.4 KREEMO 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 KREEMO Recent Developments/Updates
 - 9.8.6 KREEMO Competitive Strengths & Weaknesses
- 9.9 CoreloT Technologies
 - 9.9.1 CoreloT Technologies Details
 - 9.9.2 CoreloT Technologies Major Business
 - 9.9.3 CoreloT Technologies 5G mmWave Antennas Product and Services
 - 9.9.4 CoreloT Technologies 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 CoreloT Technologies Recent Developments/Updates
 - 9.9.6 CoreloT Technologies Competitive Strengths & Weaknesses
- 9.10 Movandi
 - 9.10.1 Movandi Details
 - 9.10.2 Movandi Major Business
 - 9.10.3 Movandi 5G mmWave Antennas Product and Services
 - 9.10.4 Movandi 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Movandi Recent Developments/Updates
- 9.10.6 Movandi Competitive Strengths & Weaknesses
- 9.11 Millimeter Wave Products Inc (Mi-Wave)
 - 9.11.1 Millimeter Wave Products Inc (Mi-Wave) Details
 - 9.11.2 Millimeter Wave Products Inc (Mi-Wave) Major Business
 - 9.11.3 Millimeter Wave Products Inc (Mi-Wave) 5G mmWave Antennas Product and Services
 - 9.11.4 Millimeter Wave Products Inc (Mi-Wave) 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Millimeter Wave Products Inc (Mi-Wave) Recent Developments/Updates
 - 9.11.6 Millimeter Wave Products Inc (Mi-Wave) Competitive Strengths & Weaknesses
- 9.12 Doosan Corporation
 - 9.12.1 Doosan Corporation Details
 - 9.12.2 Doosan Corporation Major Business
 - 9.12.3 Doosan Corporation 5G mmWave Antennas Product and Services
 - 9.12.4 Doosan Corporation 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Doosan Corporation Recent Developments/Updates
 - 9.12.6 Doosan Corporation Competitive Strengths & Weaknesses
- 9.13 Suzhou Maswell Communication Technology
 - 9.13.1 Suzhou Maswell Communication Technology Details
 - 9.13.2 Suzhou Maswell Communication Technology Major Business
 - 9.13.3 Suzhou Maswell Communication Technology 5G mmWave Antennas Product and Services
 - 9.13.4 Suzhou Maswell Communication Technology 5G mmWave Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Suzhou Maswell Communication Technology Recent Developments/Updates
 - 9.13.6 Suzhou Maswell Communication Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 5G mmWave Antennas Industry Chain
- 10.2 5G mmWave Antennas Upstream Analysis
 - 10.2.1 5G mmWave Antennas Core Raw Materials
 - 10.2.2 Main Manufacturers of 5G mmWave Antennas Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 5G mmWave Antennas Production Mode

10.6 5G mmWave Antennas Procurement Model

10.7 5G mmWave Antennas Industry Sales Model and Sales Channels

10.7.1 5G mmWave Antennas Sales Model

10.7.2 5G mmWave Antennas Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World 5G mmWave Antennas Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 5G mmWave Antennas Production Value by Region (2021-2026) & (USD Million)

Table 3. World 5G mmWave Antennas Production Value by Region (2027-2032) & (USD Million)

Table 4. World 5G mmWave Antennas Production Value Market Share by Region (2021-2026)

Table 5. World 5G mmWave Antennas Production Value Market Share by Region (2027-2032)

Table 6. World 5G mmWave Antennas Production by Region (2021-2026) & (K Units)

Table 7. World 5G mmWave Antennas Production by Region (2027-2032) & (K Units)

Table 8. World 5G mmWave Antennas Production Market Share by Region (2021-2026)

Table 9. World 5G mmWave Antennas Production Market Share by Region (2027-2032)

Table 10. World 5G mmWave Antennas Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World 5G mmWave Antennas Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. 5G mmWave Antennas Major Market Trends

Table 13. World 5G mmWave Antennas Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World 5G mmWave Antennas Consumption by Region (2021-2026) & (K Units)

Table 15. World 5G mmWave Antennas Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World 5G mmWave Antennas Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 5G mmWave Antennas Producers in 2025

Table 18. World 5G mmWave Antennas Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key 5G mmWave Antennas Producers in 2025

Table 20. World 5G mmWave Antennas Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global 5G mmWave Antennas Company Evaluation Quadrant

Table 22. World 5G mmWave Antennas Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 5G mmWave Antennas Production Site of Key Manufacturer

Table 24. 5G mmWave Antennas Market: Company Product Type Footprint

Table 25. 5G mmWave Antennas Market: Company Product Application Footprint

Table 26. 5G mmWave Antennas Competitive Factors

Table 27. 5G mmWave Antennas New Entrant and Capacity Expansion Plans

Table 28. 5G mmWave Antennas Mergers & Acquisitions Activity

Table 29. United States VS China 5G mmWave Antennas Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China 5G mmWave Antennas Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China 5G mmWave Antennas Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers 5G mmWave Antennas Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers 5G mmWave Antennas Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 5G mmWave Antennas Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers 5G mmWave Antennas Production Market Share (2021-2026)

Table 37. China Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 5G mmWave Antennas Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 5G mmWave Antennas Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 5G mmWave Antennas Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers 5G mmWave Antennas Production Market Share (2021-2026)

Table 42. Rest of World Based 5G mmWave Antennas Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers 5G mmWave Antennas Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers 5G mmWave Antennas Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 5G mmWave Antennas Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers 5G mmWave Antennas Production Market Share (2021-2026)

Table 47. World 5G mmWave Antennas Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 5G mmWave Antennas Production by Type (2021-2026) & (K Units)

Table 49. World 5G mmWave Antennas Production by Type (2027-2032) & (K Units)

Table 50. World 5G mmWave Antennas Production Value by Type (2021-2026) & (USD Million)

Table 51. World 5G mmWave Antennas Production Value by Type (2027-2032) & (USD Million)

Table 52. World 5G mmWave Antennas Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World 5G mmWave Antennas Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World 5G mmWave Antennas Production Value by mmWave Band, (USD Million), 2021 & 2025 & 2032

Table 55. World 5G mmWave Antennas Production by mmWave Band (2021-2026) & (K Units)

Table 56. World 5G mmWave Antennas Production by mmWave Band (2027-2032) & (K Units)

Table 57. World 5G mmWave Antennas Production Value by mmWave Band (2021-2026) & (USD Million)

Table 58. World 5G mmWave Antennas Production Value by mmWave Band (2027-2032) & (USD Million)

Table 59. World 5G mmWave Antennas Average Price by mmWave Band (2021-2026) & (US\$/Unit)

Table 60. World 5G mmWave Antennas Average Price by mmWave Band (2027-2032) & (US\$/Unit)

Table 61. World 5G mmWave Antennas Production Value by Radiation Pattern, (USD Million), 2021 & 2025 & 2032

Table 62. World 5G mmWave Antennas Production by Radiation Pattern (2021-2026) & (K Units)

Table 63. World 5G mmWave Antennas Production by Radiation Pattern (2027-2032) & (K Units)

Table 64. World 5G mmWave Antennas Production Value by Radiation Pattern (2021-2026) & (USD Million)

Table 65. World 5G mmWave Antennas Production Value by Radiation Pattern (2027-2032) & (USD Million)

Table 66. World 5G mmWave Antennas Average Price by Radiation Pattern (2021-2026) & (US\$/Unit)

Table 67. World 5G mmWave Antennas Average Price by Radiation Pattern (2027-2032) & (US\$/Unit)

Table 68. World 5G mmWave Antennas Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 5G mmWave Antennas Production by Application (2021-2026) & (K Units)

Table 70. World 5G mmWave Antennas Production by Application (2027-2032) & (K Units)

Table 71. World 5G mmWave Antennas Production Value by Application (2021-2026) & (USD Million)

Table 72. World 5G mmWave Antennas Production Value by Application (2027-2032) & (USD Million)

Table 73. World 5G mmWave Antennas Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World 5G mmWave Antennas Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Qualcomm Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Qualcomm Technologies Major Business

Table 77. Qualcomm Technologies 5G mmWave Antennas Product and Services

Table 78. Qualcomm Technologies 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Qualcomm Technologies Recent Developments/Updates

Table 80. Qualcomm Technologies Competitive Strengths & Weaknesses

Table 81. Universal Scientific Industrial (USI) Basic Information, Manufacturing Base and Competitors

Table 82. Universal Scientific Industrial (USI) Major Business

Table 83. Universal Scientific Industrial (USI) 5G mmWave Antennas Product and Services

Table 84. Universal Scientific Industrial (USI) 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Universal Scientific Industrial (USI) Recent Developments/Updates

Table 86. Universal Scientific Industrial (USI) Competitive Strengths & Weaknesses

- Table 87. Taoglas Basic Information, Manufacturing Base and Competitors
- Table 88. Taoglas Major Business
- Table 89. Taoglas 5G mmWave Antennas Product and Services
- Table 90. Taoglas 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Taoglas Recent Developments/Updates
- Table 92. Taoglas Competitive Strengths & Weaknesses
- Table 93. Fujikura Basic Information, Manufacturing Base and Competitors
- Table 94. Fujikura Major Business
- Table 95. Fujikura 5G mmWave Antennas Product and Services
- Table 96. Fujikura 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Fujikura Recent Developments/Updates
- Table 98. Fujikura Competitive Strengths & Weaknesses
- Table 99. Murata (pSemi) Basic Information, Manufacturing Base and Competitors
- Table 100. Murata (pSemi) Major Business
- Table 101. Murata (pSemi) 5G mmWave Antennas Product and Services
- Table 102. Murata (pSemi) 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Murata (pSemi) Recent Developments/Updates
- Table 104. Murata (pSemi) Competitive Strengths & Weaknesses
- Table 105. ALCAN Systems GmbH Basic Information, Manufacturing Base and Competitors
- Table 106. ALCAN Systems GmbH Major Business
- Table 107. ALCAN Systems GmbH 5G mmWave Antennas Product and Services
- Table 108. ALCAN Systems GmbH 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. ALCAN Systems GmbH Recent Developments/Updates
- Table 110. ALCAN Systems GmbH Competitive Strengths & Weaknesses
- Table 111. Gapwaves Basic Information, Manufacturing Base and Competitors
- Table 112. Gapwaves Major Business
- Table 113. Gapwaves 5G mmWave Antennas Product and Services
- Table 114. Gapwaves 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Gapwaves Recent Developments/Updates
- Table 116. Gapwaves Competitive Strengths & Weaknesses
- Table 117. KREEMO Basic Information, Manufacturing Base and Competitors

Table 118. KREEMO Major Business

Table 119. KREEMO 5G mmWave Antennas Product and Services

Table 120. KREEMO 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. KREEMO Recent Developments/Updates

Table 122. KREEMO Competitive Strengths & Weaknesses

Table 123. CoreloT Technologies Basic Information, Manufacturing Base and Competitors

Table 124. CoreloT Technologies Major Business

Table 125. CoreloT Technologies 5G mmWave Antennas Product and Services

Table 126. CoreloT Technologies 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. CoreloT Technologies Recent Developments/Updates

Table 128. CoreloT Technologies Competitive Strengths & Weaknesses

Table 129. Movandi Basic Information, Manufacturing Base and Competitors

Table 130. Movandi Major Business

Table 131. Movandi 5G mmWave Antennas Product and Services

Table 132. Movandi 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Movandi Recent Developments/Updates

Table 134. Movandi Competitive Strengths & Weaknesses

Table 135. Millimeter Wave Products Inc (Mi-Wave) Basic Information, Manufacturing Base and Competitors

Table 136. Millimeter Wave Products Inc (Mi-Wave) Major Business

Table 137. Millimeter Wave Products Inc (Mi-Wave) 5G mmWave Antennas Product and Services

Table 138. Millimeter Wave Products Inc (Mi-Wave) 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Millimeter Wave Products Inc (Mi-Wave) Recent Developments/Updates

Table 140. Millimeter Wave Products Inc (Mi-Wave) Competitive Strengths & Weaknesses

Table 141. Doosan Corporation Basic Information, Manufacturing Base and Competitors

Table 142. Doosan Corporation Major Business

Table 143. Doosan Corporation 5G mmWave Antennas Product and Services

Table 144. Doosan Corporation 5G mmWave Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 145. Doosan Corporation Recent Developments/Updates

Table 146. Doosan Corporation Competitive Strengths & Weaknesses

Table 147. Suzhou Maswell Communication Technology Basic Information,
Manufacturing Base and Competitors

Table 148. Suzhou Maswell Communication Technology Major Business

Table 149. Suzhou Maswell Communication Technology 5G mmWave Antennas
Product and Services

Table 150. Suzhou Maswell Communication Technology 5G mmWave Antennas
Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin
and Market Share (2021-2026)

Table 151. Suzhou Maswell Communication Technology Recent
Developments/Updates

Table 152. Suzhou Maswell Communication Technology Competitive Strengths &
Weaknesses

Table 153. Global Key Players of 5G mmWave Antennas Upstream (Raw Materials)

Table 154. Global 5G mmWave Antennas Typical Customers

Table 155. 5G mmWave Antennas Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 5G mmWave Antennas Picture

Figure 2. World 5G mmWave Antennas Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 5G mmWave Antennas Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 5. World 5G mmWave Antennas Average Price (2021-2032) & (US\$/Unit)

Figure 6. World 5G mmWave Antennas Production Value Market Share by Region (2021-2032)

Figure 7. World 5G mmWave Antennas Production Market Share by Region (2021-2032)

Figure 8. North America 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 9. Europe 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 10. China 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 11. Japan 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 12. China Taiwan 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 13. South Korea 5G mmWave Antennas Production (2021-2032) & (K Units)

Figure 14. 5G mmWave Antennas Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 17. World 5G mmWave Antennas Consumption Market Share by Region (2021-2032)

Figure 18. United States 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 19. China 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 20. Europe 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 21. Japan 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 22. South Korea 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 23. ASEAN 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 24. India 5G mmWave Antennas Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of 5G mmWave Antennas by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for 5G mmWave Antennas Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 5G mmWave Antennas Markets in 2025

Figure 28. United States VS China: 5G mmWave Antennas Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: 5G mmWave Antennas Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: 5G mmWave Antennas Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers 5G mmWave Antennas Production Market Share 2025

Figure 32. China Based Manufacturers 5G mmWave Antennas Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 5G mmWave Antennas Production Market Share 2025

Figure 34. World 5G mmWave Antennas Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World 5G mmWave Antennas Production Value Market Share by Type in 2025

Figure 36. n258

Figure 37. n257

Figure 38. n260

Figure 39. n261

Figure 40. World 5G mmWave Antennas Production Market Share by Type (2021-2032)

Figure 41. World 5G mmWave Antennas Production Value Market Share by Type (2021-2032)

Figure 42. World 5G mmWave Antennas Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World 5G mmWave Antennas Production Value by mmWave Band, (USD Million), 2021 & 2025 & 2032

Figure 44. World 5G mmWave Antennas Production Value Market Share by mmWave Band in 2025

Figure 45. 24.25-27.5 GHz

Figure 46. 27.5-28.35 GHz

Figure 47. 26.5-29.5 GHz

Figure 48. 37-40 GHz

Figure 49. World 5G mmWave Antennas Production Market Share by mmWave Band (2021-2032)

Figure 50. World 5G mmWave Antennas Production Value Market Share by mmWave Band (2021-2032)

Figure 51. World 5G mmWave Antennas Average Price by mmWave Band (2021-2032) & (US\$/Unit)

Figure 52. World 5G mmWave Antennas Production Value by Radiation Pattern, (USD Million), 2021 & 2025 & 2032

Figure 53. World 5G mmWave Antennas Production Value Market Share by Radiation Pattern in 2025

Figure 54. Directional Antenna

Figure 55. Omnidirectional Antenna

Figure 56. World 5G mmWave Antennas Production Market Share by Radiation Pattern (2021-2032)

Figure 57. World 5G mmWave Antennas Production Value Market Share by Radiation Pattern (2021-2032)

Figure 58. World 5G mmWave Antennas Average Price by Radiation Pattern (2021-2032) & (US\$/Unit)

Figure 59. World 5G mmWave Antennas Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World 5G mmWave Antennas Production Value Market Share by Application in 2025

Figure 61. 5G mmWave Smart Phone

Figure 62. 5G mmWave Base Station

Figure 63. Routers & CPE

Figure 64. Others

Figure 65. World 5G mmWave Antennas Production Market Share by Application (2021-2032)

Figure 66. World 5G mmWave Antennas Production Value Market Share by Application (2021-2032)

Figure 67. World 5G mmWave Antennas Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. 5G mmWave Antennas Industry Chain

Figure 69. 5G mmWave Antennas Procurement Model

Figure 70. 5G mmWave Antennas Sales Model

Figure 71. 5G mmWave Antennas Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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