

Global 5G Millimeter Wave Antenna Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5G Millimeter Wave Antenna market size is expected to reach \$ 4636 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

5G millimeter wave antennas are core high-frequency RF transmission components serving 5G NR FR2 bands, primarily addressing the challenges of high path loss, short coverage range, weak indoor penetration, and limited terminal space in mmWave communications. Based on official product pages, this category has evolved from standalone antenna components into phased array antenna modules, Antenna-in-Package, DAS and repeater units with embedded antennas, as well as system-level solutions for O-RAN radio units, fixed wireless access, customer premises equipment, and smart terminals. Their core function is to achieve higher EIRP, more stable links, and lower system loss across FR2 bands such as 24 GHz to 41 GHz through array antennas, beamforming, beam switching, dual polarization, RF front-end integration, frequency conversion, low-loss waveguide structures, and RoF or IFoF architectures. Typical customers include telecom equipment vendors, FWA and CPE manufacturers, private 5G system integrators, terminal OEMs, industrial campuses, and research institutions. Common delivery formats include standardized antenna modules, AiP products, evaluation boards, and development kits, as well as solution-based or co-development offerings for repeaters, indoor coverage, and private network deployment. Commercial models are mainly based on device sales, platform adoption, project customization, and validation services.

The 5G millimeter wave antenna industry has moved beyond the early stage of isolated component adoption and entered a commercialization phase centered on highly integrated system modules. Official product pages from leading vendors show that the

market is rapidly evolving from conventional antenna elements into phased array antenna modules, Antenna-in-Package solutions, RF front-end modules, and DAS or repeater systems with embedded antennas. Competitive differentiation is no longer simply about whether a company can design a mmWave antenna, but whether it can turn arrays, beam control, frequency conversion, thermal management, and packaging capabilities into deployable, manufacturable, and verifiable system products. As a result, value creation is shifting away from standalone hardware specifications toward system-level performance, integrability, size and power efficiency, and deployment effectiveness. For buyers, what matters most is no longer a single antenna metric, but whether the module can shorten development cycles, fit O-RAN or terminal platforms, reduce link loss, and maintain high EIRP and stable connectivity in complex environments. Over time, the strongest barriers to entry will come from array design, packaging processes, front-end and back-end co-design, and engineering delivery capability rather than from frequency coverage alone.

On the demand side, the most realistic, visible, and sustainable growth drivers for 5G millimeter wave antennas are now concentrated in FWA, CPE, small cells, O-RAN radio units, indoor distribution, urban coverage extension, and enterprise private networks. The large bandwidth advantage of mmWave means it is not best suited to replicate the wide-area coverage model of Sub-6 GHz, but rather to create differentiated value in high-traffic, high-density, uplink-intensive, low-latency, or dedicated network scenarios. Vendor product pages repeatedly prioritize applications such as FWA, CPE, private networks, repeaters, and small cells, indicating that the industry is allocating resources around making mmWave truly deployable rather than merely technically feasible. Policy conditions also continue to support this direction. High-band spectrum frameworks in the United States remain in place, while Japan's opening of 28 GHz spectrum for Local 5G provides a concrete institutional base for industrial and campus use cases. As long as demand continues for high-capacity access, fiber substitution through fixed wireless, and high-performance private networks, mmWave antennas should maintain solid growth in selected high-value vertical scenarios.

From a regional perspective, the 5G millimeter wave antenna supply chain shows a clear pattern of East Asian manufacturing strength combined with American and European leadership in architecture and system technologies. Japanese companies are especially strong in phased array modules and RoF-based architectures, Korean companies remain active in repeaters, DAS, and coverage systems, and Taiwanese players hold important positions in AiP, packaging, O-RAN RU support, and testing ecosystems. U.S. companies maintain strong platforms in terminal modules, infrastructure RF front ends, and intelligent repeaters, while Nordic companies preserve

differentiation in high-performance waveguide antennas and infrastructure-focused AiP solutions. This means future industry growth is unlikely to depend on a single geography. Instead, it is more likely to be driven jointly by North American FWA, Japan's Local 5G deployments, enterprise private networks, urban coverage extension, industrial campuses, and upgrades to high-density infrastructure. In the short term, the market will remain high-barrier, engineering-intensive, and somewhat project-driven. In the medium term, however, as system integration matures, open RAN ecosystems expand, and high-frequency private network applications scale up, the market is likely to become more standardized, more repeatable, and better suited for large-scale delivery. The overall outlook is constructive.

This report studies the global 5G Millimeter Wave Antenna production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global 5G Millimeter Wave Antenna total production and demand, 2021-2032, (K Pcs)

Global 5G Millimeter Wave Antenna total production value, 2021-2032, (USD Million)

Global 5G Millimeter Wave Antenna production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global 5G Millimeter Wave Antenna consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: 5G Millimeter Wave Antenna domestic production, consumption, key domestic manufacturers and share

Global 5G Millimeter Wave Antenna production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global 5G Millimeter Wave Antenna production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global 5G Millimeter Wave Antenna production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global 5G Millimeter Wave Antenna 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 Incorporated, Murata Manufacturing Co., Ltd., Qorvo, Inc., Samsung Electronics Co., Ltd., Fujikura Ltd., Kyocera Corporation, Sumitomo Electric Industries, Ltd., Doosan Corporation, FRTek Co., Ltd., TMY Technology, Inc., 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 Millimeter Wave Antenna market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Millimeter Wave Antenna Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G Millimeter Wave Antenna Market, Segmentation by Type:

AoC(Antenna on Chip)

AiP(Antenna in Package)

Global 5G Millimeter Wave Antenna Market, Segmentation by Product Form:

Standalone Antenna

Phased Array Antenna Module

Antenna-in-Package

Embedded-Antenna System Unit

Global 5G Millimeter Wave Antenna Market, Segmentation by Band Focus:

24?29 GHz Single-Band

37?40 GHz Single-Band

Multi-Band FR2

Other

Global 5G Millimeter Wave Antenna Market, Segmentation by Application:

Consumer Electronics

Vehicle Electronics

Industrial Internet of Things

Communication Base Station

Others

Companies Profiled:

Qualcomm Incorporated

Murata Manufacturing Co., Ltd.

Qorvo, Inc.

Samsung Electronics Co., Ltd.

Fujikura Ltd.

Kyocera Corporation

Sumitomo Electric Industries, Ltd.

Doosan Corporation

FRTek Co., Ltd.

TMY Technology, Inc.

Movandi Corporation

Gapwaves AB

Sivers Semiconductors AB

ASE Technology Holding Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World 5G Millimeter Wave Antenna Production Value by Manufacturer (2021-2026)
- 3.2 World 5G Millimeter Wave Antenna Production by Manufacturer (2021-2026)
- 3.3 World 5G Millimeter Wave Antenna Average Price by Manufacturer (2021-2026)
- 3.4 5G Millimeter Wave Antenna Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global 5G Millimeter Wave Antenna Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for 5G Millimeter Wave Antenna in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for 5G Millimeter Wave Antenna in 2025
- 3.6 5G Millimeter Wave Antenna Market: Overall Company Footprint Analysis
 - 3.6.1 5G Millimeter Wave Antenna Market: Region Footprint
 - 3.6.2 5G Millimeter Wave Antenna Market: Company Product Type Footprint
 - 3.6.3 5G Millimeter Wave Antenna 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 Millimeter Wave Antenna Production Value Comparison
 - 4.1.1 United States VS China: 5G Millimeter Wave Antenna Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: 5G Millimeter Wave Antenna Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: 5G Millimeter Wave Antenna Production Comparison
 - 4.2.1 United States VS China: 5G Millimeter Wave Antenna Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: 5G Millimeter Wave Antenna Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: 5G Millimeter Wave Antenna Consumption Comparison
 - 4.3.1 United States VS China: 5G Millimeter Wave Antenna Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: 5G Millimeter Wave Antenna Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based 5G Millimeter Wave Antenna Manufacturers and Market Share, 2021-2026

4.4.1 United States Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers 5G Millimeter Wave Antenna Production Value (2021-2026)

4.4.3 United States Based Manufacturers 5G Millimeter Wave Antenna Production (2021-2026)

4.5 China Based 5G Millimeter Wave Antenna Manufacturers and Market Share

4.5.1 China Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers 5G Millimeter Wave Antenna Production Value (2021-2026)

4.5.3 China Based Manufacturers 5G Millimeter Wave Antenna Production (2021-2026)

4.6 Rest of World Based 5G Millimeter Wave Antenna Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World 5G Millimeter Wave Antenna Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 AoC(Antenna on Chip)

5.2.2 AiP(Antenna in Package)

5.3 Market Segment by Type

5.3.1 World 5G Millimeter Wave Antenna Production by Type (2021-2032)

5.3.2 World 5G Millimeter Wave Antenna Production Value by Type (2021-2032)

5.3.3 World 5G Millimeter Wave Antenna Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World 5G Millimeter Wave Antenna Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Standalone Antenna

6.2.2 Phased Array Antenna Module

6.2.3 Antenna-in-Package

6.2.4 Embedded-Antenna System Unit

6.3 Market Segment by Product Form

6.3.1 World 5G Millimeter Wave Antenna Production by Product Form (2021-2032)

6.3.2 World 5G Millimeter Wave Antenna Production Value by Product Form (2021-2032)

6.3.3 World 5G Millimeter Wave Antenna Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY BAND FOCUS

7.1 World 5G Millimeter Wave Antenna Market Size Overview by Band Focus: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Band Focus

7.2.1 24?29 GHz Single-Band

7.2.2 37?40 GHz Single-Band

7.2.3 Multi-Band FR2

7.2.4 Other

7.3 Market Segment by Band Focus

7.3.1 World 5G Millimeter Wave Antenna Production by Band Focus (2021-2032)

7.3.2 World 5G Millimeter Wave Antenna Production Value by Band Focus (2021-2032)

7.3.3 World 5G Millimeter Wave Antenna Average Price by Band Focus (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World 5G Millimeter Wave Antenna Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Vehicle Electronics

8.2.3 Industrial Internet of Things

8.2.4 Communication Base Station

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World 5G Millimeter Wave Antenna Production by Application (2021-2032)

8.3.2 World 5G Millimeter Wave Antenna Production Value by Application (2021-2032)

8.3.3 World 5G Millimeter Wave Antenna Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Qualcomm Incorporated

9.1.1 Qualcomm Incorporated Details

9.1.2 Qualcomm Incorporated Major Business

9.1.3 Qualcomm Incorporated 5G Millimeter Wave Antenna Product and Services

9.1.4 Qualcomm Incorporated 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Qualcomm Incorporated Recent Developments/Updates

9.1.6 Qualcomm Incorporated Competitive Strengths & Weaknesses

9.2 Murata Manufacturing Co., Ltd.

9.2.1 Murata Manufacturing Co., Ltd. Details

9.2.2 Murata Manufacturing Co., Ltd. Major Business

9.2.3 Murata Manufacturing Co., Ltd. 5G Millimeter Wave Antenna Product and Services

9.2.4 Murata Manufacturing Co., Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Murata Manufacturing Co., Ltd. Recent Developments/Updates

9.2.6 Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

9.3 Qorvo, Inc.

9.3.1 Qorvo, Inc. Details

9.3.2 Qorvo, Inc. Major Business

9.3.3 Qorvo, Inc. 5G Millimeter Wave Antenna Product and Services

9.3.4 Qorvo, Inc. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Qorvo, Inc. Recent Developments/Updates

9.3.6 Qorvo, Inc. Competitive Strengths & Weaknesses

9.4 Samsung Electronics Co., Ltd.

9.4.1 Samsung Electronics Co., Ltd. Details

9.4.2 Samsung Electronics Co., Ltd. Major Business

9.4.3 Samsung Electronics Co., Ltd. 5G Millimeter Wave Antenna Product and Services

9.4.4 Samsung Electronics Co., Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Samsung Electronics Co., Ltd. Recent Developments/Updates

9.4.6 Samsung Electronics Co., Ltd. Competitive Strengths & Weaknesses

9.5 Fujikura Ltd.

9.5.1 Fujikura Ltd. Details

9.5.2 Fujikura Ltd. Major Business

- 9.5.3 Fujikura Ltd. 5G Millimeter Wave Antenna Product and Services
- 9.5.4 Fujikura Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Fujikura Ltd. Recent Developments/Updates
- 9.5.6 Fujikura Ltd. Competitive Strengths & Weaknesses
- 9.6 Kyocera Corporation
 - 9.6.1 Kyocera Corporation Details
 - 9.6.2 Kyocera Corporation Major Business
 - 9.6.3 Kyocera Corporation 5G Millimeter Wave Antenna Product and Services
 - 9.6.4 Kyocera Corporation 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Kyocera Corporation Recent Developments/Updates
 - 9.6.6 Kyocera Corporation Competitive Strengths & Weaknesses
- 9.7 Sumitomo Electric Industries, Ltd.
 - 9.7.1 Sumitomo Electric Industries, Ltd. Details
 - 9.7.2 Sumitomo Electric Industries, Ltd. Major Business
 - 9.7.3 Sumitomo Electric Industries, Ltd. 5G Millimeter Wave Antenna Product and Services
 - 9.7.4 Sumitomo Electric Industries, Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Sumitomo Electric Industries, Ltd. Recent Developments/Updates
 - 9.7.6 Sumitomo Electric Industries, Ltd. Competitive Strengths & Weaknesses
- 9.8 Doosan Corporation
 - 9.8.1 Doosan Corporation Details
 - 9.8.2 Doosan Corporation Major Business
 - 9.8.3 Doosan Corporation 5G Millimeter Wave Antenna Product and Services
 - 9.8.4 Doosan Corporation 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Doosan Corporation Recent Developments/Updates
 - 9.8.6 Doosan Corporation Competitive Strengths & Weaknesses
- 9.9 FRTEK Co., Ltd.
 - 9.9.1 FRTEK Co., Ltd. Details
 - 9.9.2 FRTEK Co., Ltd. Major Business
 - 9.9.3 FRTEK Co., Ltd. 5G Millimeter Wave Antenna Product and Services
 - 9.9.4 FRTEK Co., Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 FRTEK Co., Ltd. Recent Developments/Updates
 - 9.9.6 FRTEK Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 TMY Technology, Inc.

- 9.10.1 TMY Technology, Inc. Details
- 9.10.2 TMY Technology, Inc. Major Business
- 9.10.3 TMY Technology, Inc. 5G Millimeter Wave Antenna Product and Services
- 9.10.4 TMY Technology, Inc. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 TMY Technology, Inc. Recent Developments/Updates
- 9.10.6 TMY Technology, Inc. Competitive Strengths & Weaknesses
- 9.11 Movandi Corporation
- 9.11.1 Movandi Corporation Details
- 9.11.2 Movandi Corporation Major Business
- 9.11.3 Movandi Corporation 5G Millimeter Wave Antenna Product and Services
- 9.11.4 Movandi Corporation 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Movandi Corporation Recent Developments/Updates
- 9.11.6 Movandi Corporation Competitive Strengths & Weaknesses
- 9.12 Gapwaves AB
- 9.12.1 Gapwaves AB Details
- 9.12.2 Gapwaves AB Major Business
- 9.12.3 Gapwaves AB 5G Millimeter Wave Antenna Product and Services
- 9.12.4 Gapwaves AB 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Gapwaves AB Recent Developments/Updates
- 9.12.6 Gapwaves AB Competitive Strengths & Weaknesses
- 9.13 Sivers Semiconductors AB
- 9.13.1 Sivers Semiconductors AB Details
- 9.13.2 Sivers Semiconductors AB Major Business
- 9.13.3 Sivers Semiconductors AB 5G Millimeter Wave Antenna Product and Services
- 9.13.4 Sivers Semiconductors AB 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Sivers Semiconductors AB Recent Developments/Updates
- 9.13.6 Sivers Semiconductors AB Competitive Strengths & Weaknesses
- 9.14 ASE Technology Holding Co., Ltd.
- 9.14.1 ASE Technology Holding Co., Ltd. Details
- 9.14.2 ASE Technology Holding Co., Ltd. Major Business
- 9.14.3 ASE Technology Holding Co., Ltd. 5G Millimeter Wave Antenna Product and Services
- 9.14.4 ASE Technology Holding Co., Ltd. 5G Millimeter Wave Antenna Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 ASE Technology Holding Co., Ltd. Recent Developments/Updates

9.14.6 ASE Technology Holding Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 5G Millimeter Wave Antenna Industry Chain

10.2 5G Millimeter Wave Antenna Upstream Analysis

10.2.1 5G Millimeter Wave Antenna Core Raw Materials

10.2.2 Main Manufacturers of 5G Millimeter Wave Antenna Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 5G Millimeter Wave Antenna Production Mode

10.6 5G Millimeter Wave Antenna Procurement Model

10.7 5G Millimeter Wave Antenna Industry Sales Model and Sales Channels

10.7.1 5G Millimeter Wave Antenna Sales Model

10.7.2 5G Millimeter Wave Antenna 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 Millimeter Wave Antenna Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World 5G Millimeter Wave Antenna Production Value by Region (2021-2026) & (USD Million)

Table 3. World 5G Millimeter Wave Antenna Production Value by Region (2027-2032) & (USD Million)

Table 4. World 5G Millimeter Wave Antenna Production Value Market Share by Region (2021-2026)

Table 5. World 5G Millimeter Wave Antenna Production Value Market Share by Region (2027-2032)

Table 6. World 5G Millimeter Wave Antenna Production by Region (2021-2026) & (K Pcs)

Table 7. World 5G Millimeter Wave Antenna Production by Region (2027-2032) & (K Pcs)

Table 8. World 5G Millimeter Wave Antenna Production Market Share by Region (2021-2026)

Table 9. World 5G Millimeter Wave Antenna Production Market Share by Region (2027-2032)

Table 10. World 5G Millimeter Wave Antenna Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World 5G Millimeter Wave Antenna Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. 5G Millimeter Wave Antenna Major Market Trends

Table 13. World 5G Millimeter Wave Antenna Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World 5G Millimeter Wave Antenna Consumption by Region (2021-2026) & (K Pcs)

Table 15. World 5G Millimeter Wave Antenna Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World 5G Millimeter Wave Antenna Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key 5G Millimeter Wave Antenna Producers in 2025

Table 18. World 5G Millimeter Wave Antenna Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key 5G Millimeter Wave Antenna Producers in 2025

Table 20. World 5G Millimeter Wave Antenna Average Price by Manufacturer (2021-2026) & (US\$/Pcs)

Table 21. Global 5G Millimeter Wave Antenna Company Evaluation Quadrant

Table 22. World 5G Millimeter Wave Antenna Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and 5G Millimeter Wave Antenna Production Site of Key Manufacturer

Table 24. 5G Millimeter Wave Antenna Market: Company Product Type Footprint

Table 25. 5G Millimeter Wave Antenna Market: Company Product Application Footprint

Table 26. 5G Millimeter Wave Antenna Competitive Factors

Table 27. 5G Millimeter Wave Antenna New Entrant and Capacity Expansion Plans

Table 28. 5G Millimeter Wave Antenna Mergers & Acquisitions Activity

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

Table 30. United States VS China 5G Millimeter Wave Antenna Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China 5G Millimeter Wave Antenna Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (States, Country)

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

Table 34. United States Based Manufacturers 5G Millimeter Wave Antenna Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers 5G Millimeter Wave Antenna Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers 5G Millimeter Wave Antenna Production Market Share (2021-2026)

Table 37. China Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers 5G Millimeter Wave Antenna Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers 5G Millimeter Wave Antenna Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers 5G Millimeter Wave Antenna Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers 5G Millimeter Wave Antenna Production Market

Share (2021-2026)

Table 42. Rest of World Based 5G Millimeter Wave Antenna Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production Market Share (2021-2026)

Table 47. World 5G Millimeter Wave Antenna Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World 5G Millimeter Wave Antenna Production by Type (2021-2026) & (K Pcs)

Table 49. World 5G Millimeter Wave Antenna Production by Type (2027-2032) & (K Pcs)

Table 50. World 5G Millimeter Wave Antenna Production Value by Type (2021-2026) & (USD Million)

Table 51. World 5G Millimeter Wave Antenna Production Value by Type (2027-2032) & (USD Million)

Table 52. World 5G Millimeter Wave Antenna Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World 5G Millimeter Wave Antenna Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World 5G Millimeter Wave Antenna Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World 5G Millimeter Wave Antenna Production by Product Form (2021-2026) & (K Pcs)

Table 56. World 5G Millimeter Wave Antenna Production by Product Form (2027-2032) & (K Pcs)

Table 57. World 5G Millimeter Wave Antenna Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World 5G Millimeter Wave Antenna Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World 5G Millimeter Wave Antenna Average Price by Product Form (2021-2026) & (US\$/Pcs)

Table 60. World 5G Millimeter Wave Antenna Average Price by Product Form (2027-2032) & (US\$/Pcs)

Table 61. World 5G Millimeter Wave Antenna Production Value by Band Focus, (USD Million), 2021 & 2025 & 2032

Table 62. World 5G Millimeter Wave Antenna Production by Band Focus (2021-2026) & (K Pcs)

Table 63. World 5G Millimeter Wave Antenna Production by Band Focus (2027-2032) & (K Pcs)

Table 64. World 5G Millimeter Wave Antenna Production Value by Band Focus (2021-2026) & (USD Million)

Table 65. World 5G Millimeter Wave Antenna Production Value by Band Focus (2027-2032) & (USD Million)

Table 66. World 5G Millimeter Wave Antenna Average Price by Band Focus (2021-2026) & (US\$/Pcs)

Table 67. World 5G Millimeter Wave Antenna Average Price by Band Focus (2027-2032) & (US\$/Pcs)

Table 68. World 5G Millimeter Wave Antenna Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World 5G Millimeter Wave Antenna Production by Application (2021-2026) & (K Pcs)

Table 70. World 5G Millimeter Wave Antenna Production by Application (2027-2032) & (K Pcs)

Table 71. World 5G Millimeter Wave Antenna Production Value by Application (2021-2026) & (USD Million)

Table 72. World 5G Millimeter Wave Antenna Production Value by Application (2027-2032) & (USD Million)

Table 73. World 5G Millimeter Wave Antenna Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World 5G Millimeter Wave Antenna Average Price by Application (2027-2032) & (US\$/Pcs)

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

Table 76. Qualcomm Incorporated Major Business

Table 77. Qualcomm Incorporated 5G Millimeter Wave Antenna Product and Services

Table 78. Qualcomm Incorporated 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Qualcomm Incorporated Recent Developments/Updates

Table 80. Qualcomm Incorporated Competitive Strengths & Weaknesses

Table 81. Murata Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Murata Manufacturing Co., Ltd. Major Business

Table 83. Murata Manufacturing Co., Ltd. 5G Millimeter Wave Antenna Product and Services

Table 84. Murata Manufacturing Co., Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Murata Manufacturing Co., Ltd. Recent Developments/Updates

Table 86. Murata Manufacturing Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Qorvo, Inc. Basic Information, Manufacturing Base and Competitors

Table 88. Qorvo, Inc. Major Business

Table 89. Qorvo, Inc. 5G Millimeter Wave Antenna Product and Services

Table 90. Qorvo, Inc. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Qorvo, Inc. Recent Developments/Updates

Table 92. Qorvo, Inc. Competitive Strengths & Weaknesses

Table 93. Samsung Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Samsung Electronics Co., Ltd. Major Business

Table 95. Samsung Electronics Co., Ltd. 5G Millimeter Wave Antenna Product and Services

Table 96. Samsung Electronics Co., Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Samsung Electronics Co., Ltd. Recent Developments/Updates

Table 98. Samsung Electronics Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Fujikura Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Fujikura Ltd. Major Business

Table 101. Fujikura Ltd. 5G Millimeter Wave Antenna Product and Services

Table 102. Fujikura Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Fujikura Ltd. Recent Developments/Updates

Table 104. Fujikura Ltd. Competitive Strengths & Weaknesses

Table 105. Kyocera Corporation Basic Information, Manufacturing Base and Competitors

Table 106. Kyocera Corporation Major Business

Table 107. Kyocera Corporation 5G Millimeter Wave Antenna Product and Services

Table 108. Kyocera Corporation 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Kyocera Corporation Recent Developments/Updates

Table 110. Kyocera Corporation Competitive Strengths & Weaknesses

Table 111. Sumitomo Electric Industries, Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Sumitomo Electric Industries, Ltd. Major Business

Table 113. Sumitomo Electric Industries, Ltd. 5G Millimeter Wave Antenna Product and Services

Table 114. Sumitomo Electric Industries, Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Sumitomo Electric Industries, Ltd. Recent Developments/Updates

Table 116. Sumitomo Electric Industries, Ltd. Competitive Strengths & Weaknesses

Table 117. Doosan Corporation Basic Information, Manufacturing Base and Competitors

Table 118. Doosan Corporation Major Business

Table 119. Doosan Corporation 5G Millimeter Wave Antenna Product and Services

Table 120. Doosan Corporation 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Doosan Corporation Recent Developments/Updates

Table 122. Doosan Corporation Competitive Strengths & Weaknesses

Table 123. FRTek Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. FRTek Co., Ltd. Major Business

Table 125. FRTek Co., Ltd. 5G Millimeter Wave Antenna Product and Services

Table 126. FRTek Co., Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. FRTek Co., Ltd. Recent Developments/Updates

Table 128. FRTek Co., Ltd. Competitive Strengths & Weaknesses

Table 129. TMY Technology, Inc. Basic Information, Manufacturing Base and Competitors

Table 130. TMY Technology, Inc. Major Business

Table 131. TMY Technology, Inc. 5G Millimeter Wave Antenna Product and Services

Table 132. TMY Technology, Inc. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TMY Technology, Inc. Recent Developments/Updates

Table 134. TMY Technology, Inc. Competitive Strengths & Weaknesses

Table 135. Movandi Corporation Basic Information, Manufacturing Base and Competitors
Table 136. Movandi Corporation Major Business
Table 137. Movandi Corporation 5G Millimeter Wave Antenna Product and Services
Table 138. Movandi Corporation 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Movandi Corporation Recent Developments/Updates
Table 140. Movandi Corporation Competitive Strengths & Weaknesses
Table 141. Gapwaves AB Basic Information, Manufacturing Base and Competitors
Table 142. Gapwaves AB Major Business
Table 143. Gapwaves AB 5G Millimeter Wave Antenna Product and Services
Table 144. Gapwaves AB 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Gapwaves AB Recent Developments/Updates
Table 146. Gapwaves AB Competitive Strengths & Weaknesses
Table 147. Silvers Semiconductors AB Basic Information, Manufacturing Base and Competitors
Table 148. Silvers Semiconductors AB Major Business
Table 149. Silvers Semiconductors AB 5G Millimeter Wave Antenna Product and Services
Table 150. Silvers Semiconductors AB 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Silvers Semiconductors AB Recent Developments/Updates
Table 152. Silvers Semiconductors AB Competitive Strengths & Weaknesses
Table 153. ASE Technology Holding Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 154. ASE Technology Holding Co., Ltd. Major Business
Table 155. ASE Technology Holding Co., Ltd. 5G Millimeter Wave Antenna Product and Services
Table 156. ASE Technology Holding Co., Ltd. 5G Millimeter Wave Antenna Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. ASE Technology Holding Co., Ltd. Recent Developments/Updates
Table 158. ASE Technology Holding Co., Ltd. Competitive Strengths & Weaknesses
Table 159. Global Key Players of 5G Millimeter Wave Antenna Upstream (Raw Materials)

Table 160. Global 5G Millimeter Wave Antenna Typical Customers

Table 161. 5G Millimeter Wave Antenna Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. 5G Millimeter Wave Antenna Picture

Figure 2. World 5G Millimeter Wave Antenna Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World 5G Millimeter Wave Antenna Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 5. World 5G Millimeter Wave Antenna Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World 5G Millimeter Wave Antenna Production Value Market Share by Region (2021-2032)

Figure 7. World 5G Millimeter Wave Antenna Production Market Share by Region (2021-2032)

Figure 8. North America 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 9. Europe 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 10. China 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 11. Japan 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 12. South Korea 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 13. China Taiwan 5G Millimeter Wave Antenna Production (2021-2032) & (K Pcs)

Figure 14. 5G Millimeter Wave Antenna Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 17. World 5G Millimeter Wave Antenna Consumption Market Share by Region (2021-2032)

Figure 18. United States 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 19. China 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 20. Europe 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 21. Japan 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 22. South Korea 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 23. ASEAN 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

Figure 24. India 5G Millimeter Wave Antenna Consumption (2021-2032) & (K Pcs)

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

Figure 26. Global Four-firm Concentration Ratios (CR4) for 5G Millimeter Wave

Antenna Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for 5G Millimeter Wave Antenna Markets in 2025

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

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

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

Figure 31. United States Based Manufacturers 5G Millimeter Wave Antenna Production Market Share 2025

Figure 32. China Based Manufacturers 5G Millimeter Wave Antenna Production Market Share 2025

Figure 33. Rest of World Based Manufacturers 5G Millimeter Wave Antenna Production Market Share 2025

Figure 34. World 5G Millimeter Wave Antenna Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World 5G Millimeter Wave Antenna Production Value Market Share by Type in 2025

Figure 36. AoC(Antenna on Chip)

Figure 37. AiP(Antenna in Package)

Figure 38. World 5G Millimeter Wave Antenna Production Market Share by Type (2021-2032)

Figure 39. World 5G Millimeter Wave Antenna Production Value Market Share by Type (2021-2032)

Figure 40. World 5G Millimeter Wave Antenna Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 41. World 5G Millimeter Wave Antenna Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 42. World 5G Millimeter Wave Antenna Production Value Market Share by Product Form in 2025

Figure 43. Standalone Antenna

Figure 44. Phased Array Antenna Module

Figure 45. Antenna-in-Package

Figure 46. Embedded-Antenna System Unit

Figure 47. World 5G Millimeter Wave Antenna Production Market Share by Product Form (2021-2032)

Figure 48. World 5G Millimeter Wave Antenna Production Value Market Share by Product Form (2021-2032)

Figure 49. World 5G Millimeter Wave Antenna Average Price by Product Form (2021-2032) & (US\$/Pcs)

Figure 50. World 5G Millimeter Wave Antenna Production Value by Band Focus, (USD Million), 2021 & 2025 & 2032

Figure 51. World 5G Millimeter Wave Antenna Production Value Market Share by Band Focus in 2025

Figure 52. 24?29 GHz Single-Band

Figure 53. 37?40 GHz Single-Band

Figure 54. Multi-Band FR2

Figure 55. Other

Figure 56. World 5G Millimeter Wave Antenna Production Market Share by Band Focus (2021-2032)

Figure 57. World 5G Millimeter Wave Antenna Production Value Market Share by Band Focus (2021-2032)

Figure 58. World 5G Millimeter Wave Antenna Average Price by Band Focus (2021-2032) & (US\$/Pcs)

Figure 59. World 5G Millimeter Wave Antenna Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World 5G Millimeter Wave Antenna Production Value Market Share by Application in 2025

Figure 61. Consumer Electronics

Figure 62. Vehicle Electronics

Figure 63. Industrial Internet of Things

Figure 64. Communication Base Station

Figure 65. Others

Figure 66. World 5G Millimeter Wave Antenna Production Market Share by Application (2021-2032)

Figure 67. World 5G Millimeter Wave Antenna Production Value Market Share by Application (2021-2032)

Figure 68. World 5G Millimeter Wave Antenna Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 69. 5G Millimeter Wave Antenna Industry Chain

Figure 70. 5G Millimeter Wave Antenna Procurement Model

Figure 71. 5G Millimeter Wave Antenna Sales Model

Figure 72. 5G Millimeter Wave Antenna Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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