

Global 5G Millimeter Wave Antenna Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 5G Millimeter Wave Antenna market size was valued at US\$ 1461 million in 2025 and is forecast to a readjusted size of US\$ 4636 million by 2032 with a CAGR of 17.9% during review period.

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 is a detailed and comprehensive analysis for global 5G Millimeter Wave Antenna market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 5G Millimeter Wave Antenna market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 5G Millimeter Wave Antenna market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 5G Millimeter Wave Antenna market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 5G Millimeter Wave Antenna market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 5G Millimeter Wave Antenna

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 5G Millimeter Wave Antenna market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

5G Millimeter Wave Antenna market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

AoC(Antenna on Chip)

AiP(Antenna in Package)

Market segment by Product Form

Standalone Antenna

Phased Array Antenna Module

Antenna-in-Package

Embedded-Antenna System Unit

Market segment by Band Focus

24?29 GHz Single-Band

37?40 GHz Single-Band

Multi-Band FR2

Other

Market segment by Application

Consumer Electronics

Vehicle Electronics

Industrial Internet of Things

Communication Base Station

Others

Major players covered

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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 5G Millimeter Wave Antenna product scope, market

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 5G Millimeter Wave Antenna, with price, sales quantity, revenue, and global market share of 5G Millimeter Wave Antenna from 2021 to 2026.

Chapter 3, the 5G Millimeter Wave Antenna competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 5G Millimeter Wave Antenna breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 5G Millimeter Wave Antenna market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 5G Millimeter Wave Antenna.

Chapter 14 and 15, to describe 5G Millimeter Wave Antenna sales channel, distributors, customers, research findings and conclusion.

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