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Global 5G mmWave Antenna Radomes 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 mmWave Antenna Radomes market size was valued at US$ 224 million in 2025 and is forecast to a readjusted size of US$ 420 million by 2032 with a CAGR of 9.2% during review period.

5G mmWave antenna radomes are radio frequency transparent protective components used at the front end of 5G millimeter wave communication equipment. The product scope mainly covers antenna covers, radome housings, transparent panels, concealment covers, small cell enclosures, customer premises equipment covers, and dedicated radome materials used in 5G FR2 small cells, millimeter wave phased array antennas, indoor and outdoor hotspot nodes, fixed wireless access devices, urban concealed sites, private network equipment, and high frequency communication modules. Their core function is to protect antenna arrays, radio frequency front ends, feeding networks, and internal electronic components from rain, snow, dust, ultraviolet exposure, humidity, temperature cycling, mechanical impact, and environmental contamination while maintaining low signal reflection, low absorption, low insertion loss, stable phase behavior, and consistent beam transmission at millimeter wave frequencies. Main product forms include injection molded antenna radomes, composite sandwich radomes, microcellular foam radomes, 5G concealment panels, small cell radome housings, CPE transparent covers, and dedicated radome housing structures. Common material systems include low dielectric modified polypropylene, polyphenylene ether, polycarbonate and ASA blends, polyphenylene sulfide, PTFE based composites, quartz fiber composites, glass fiber reinforced thermoplastics, microcellular polypropylene foam, and low loss composite core materials. Typical manufacturing processes include polymer formulation, dielectric material modification, foam molding, injection molding, compression molding, thermal lamination, composite bonding,

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precision machining, surface coating, flame retardant treatment, weather resistance treatment, high frequency dielectric testing, insertion loss testing, environmental reliability testing, and final assembly validation. Key specifications include operating frequency, dielectric constant, dissipation factor, radio frequency transmission, insertion loss, wall thickness tolerance, angular stability, ultraviolet resistance, flame retardance, IP protection rating, moisture and heat resistance, impact resistance, and dimensional stability. In 2025, global 5G mmWave antenna radome shipments are estimated at about 2.5 million to 5.5 million units. The average industry price is estimated at about USD 40 to USD 180 per unit, while customized concealment radomes and high end composite radomes may reach USD 300 to USD 3,000 per unit. The average global gross margin for 5G mmWave antenna radomes in 2025 is estimated at about 25% to 40%.

The industrial nature of 5G mmWave antenna radomes is the upgrading of conventional communication covers into functional radio frequency components for high frequency networks. The upstream segment includes low dielectric polymers, microcellular foam materials, glass fiber and quartz fiber reinforced materials, PTFE based composites, flame retardant additives, weather resistant additives, and surface coating materials. The midstream segment covers material modification, radome structural design, injection molding, composite sandwich forming, concealment panel fabrication, and high frequency transmission testing. The downstream segment mainly serves mmWave small cells, fixed wireless access, indoor hotspot coverage, private industrial networks, urban concealed sites, and next generation high frequency communication equipment. These products are no longer simple protective shells. They directly affect link budget, beam stability, insertion loss, environmental reliability, and the overall performance of millimeter wave communication systems.

The supply structure is developing along two parallel paths, namely specialized materials and finished radome components. Material producers are improving dielectric constant, dissipation factor, lightweight performance, weather resistance, flame retardance, and processability, while radome manufacturers focus on high frequency transparency, wall thickness control, complex shapes, concealment design, outdoor reliability, and scalable production. Companies in North America, Europe, and Japan generally have stronger experience in high frequency materials, composite radome structures, and validation systems, while Chinese suppliers are more competitive in communication structural parts, modified plastics, microcellular foam materials, rapid engineering response, and cost effective manufacturing. Future competition will not rely only on material parameters. Customer qualification, reliability databases, batch consistency, frequency range stability, and supply chain responsiveness will become

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equally important.

Demand growth is mainly driven by selective deployment of 5G millimeter wave networks rather than broad replacement of all 5G antenna covers. Fixed wireless access, stadiums, transport hubs, commercial districts, industrial parks, ports, mines, private networks, and urban concealment sites are more likely to generate real demand because they require high capacity, low latency, dense coverage, and better visual integration. In the application mix, small cell and concealment radomes tend to carry higher unit value, while CPE and indoor coverage devices contribute more stable unit demand. Private networks and pilot networks create customized requirements for materials, structure, and installation. As operators become more disciplined in capital expenditure, demand for mmWave radomes is expected to be project based, regionally concentrated, and increasingly performance oriented.

The policy and technology environment supports long term development, but the growth path remains gradual. Spectrum planning, 5G Advanced deployment, industrial internet policies, private network construction, smart city programs, and early 6G research are all creating opportunities for millimeter wave and higher frequency communication systems. At the same time, deployment is constrained by device ecosystem maturity, site density, installation cost, coverage limitations, and operator investment cycles. The industry will continue to see new material launches, composite structure optimization, production line upgrades, local supply chain development, and closer upstream and downstream co development. Overall, 5G mmWave antenna radomes represent a small but growing high performance niche. The segment is unlikely to expand like a commodity material market in the short term, but it has clear upgrade potential in high frequency communication equipment, concealed network deployment, and next generation wireless infrastructure.

This report is a detailed and comprehensive analysis for global 5G mmWave Antenna Radomes market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Material System 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 mmWave Antenna Radomes market size and forecasts, in consumption

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value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 5G mmWave Antenna Radomes market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 5G mmWave Antenna Radomes market size and forecasts, by Material System and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global 5G mmWave Antenna Radomes market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 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 mmWave Antenna Radomes

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 mmWave Antenna Radomes 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 Shanghai Allied Industrial Corp., Ltd., Laird Performance Materials, Raycap, Exel Composites Oyj, Saint-Gobain, Chicago Plastic Systems, Furukawa Electric Co., Ltd., Hunan Aerospace Huanyu Communication Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

5G mmWave Antenna Radomes market is split by Material System and by Application.

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For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Material System, 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 Material System

- Microcellular Foam Materials
- PTFE-based Composites
- Quartz and Glass Fiber Composites
- Reinforced Engineering Plastics
- Others

Market segment by Frequency Band

- 24 to 30 GHz Radomes
- 37 to 43 GHz Radomes
- 57 to 71 GHz Radomes
- E-band and Higher Frequency Radomes
- Multi-band Broadband Radomes
- Others

Market segment by Manufacturing Process

- Injection Molding
- Foam Molding and Expansion

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Compression Molding

Lamination and Sandwich Bonding

Others

Market segment by Application

Outdoor mmWave Small Cells

Indoor Hotspot Coverage

Fixed Wireless Access

Urban Concealed Sites

Industrial Private Networks

R&D and Trial Networks

Others

Major players covered

Shanghai Allied Industrial Corp., Ltd.

Laird Performance Materials

Raycap

Exel Composites Oyj

Saint-Gobain

Chicago Plastic Systems

Furukawa Electric Co., Ltd.

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Hunan Aerospace Huanyu Communication Technology 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 mmWave Antenna Radomes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the 5G mmWave Antenna Radomes 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 Material System and by Application, with sales market share and growth rate by Material System, by Application, from 2021 to 2032.

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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 mmWave Antenna Radomes market forecast, by regions, by Material System, 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 mmWave Antenna Radomes.

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

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