

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

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Abstracts

The global 5G mmWave Antenna Radomes market size is expected to reach \$ 420 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

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, 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 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 studies the global 5G mmWave Antenna Radomes production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global 5G mmWave Antenna Radomes total production and demand, 2021-2032, (K

Units)

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

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

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

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

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

Global 5G mmWave Antenna Radomes production by Material System, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global 5G mmWave Antenna Radomes 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 5G mmWave Antenna Radomes 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 Material System, 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 Antenna Radomes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G mmWave Antenna Radomes Market, Segmentation by Material System:

Microcellular Foam Materials

PTFE-based Composites

Quartz and Glass Fiber Composites

Reinforced Engineering Plastics

Others

Global 5G mmWave Antenna Radomes Market, Segmentation 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

Global 5G mmWave Antenna Radomes Market, Segmentation by Manufacturing Process:

Injection Molding

Foam Molding and Expansion

Compression Molding

Lamination and Sandwich Bonding

Others

Global 5G mmWave Antenna Radomes Market, Segmentation by Application:

Outdoor mmWave Small Cells

Indoor Hotspot Coverage

Fixed Wireless Access

Urban Concealed Sites

Industrial Private Networks

R&D and Trial Networks

Others

Companies Profiled:

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.

Key Questions Answered:

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

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