

Global 5G mmWave Antenna Radomes Market Growth 2026-2032

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Abstracts

The global 5G mmWave Antenna Radomes market size is predicted to grow from US\$ 213 million in 2025 to US\$ 412 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "5G mmWave Antenna Radomes Industry Forecast" looks at past sales and reviews total world 5G mmWave Antenna Radomes sales in 2025, providing a comprehensive analysis by region and market sector of projected 5G mmWave Antenna Radomes sales for 2026 through 2032. With 5G mmWave Antenna Radomes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 5G mmWave Antenna Radomes industry.

This Insight Report provides a comprehensive analysis of the global 5G mmWave Antenna Radomes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with

a focus on 5G mmWave Antenna Radomes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 5G mmWave Antenna Radomes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 5G mmWave Antenna Radomes and breaks down the forecast by Material System, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 5G mmWave Antenna Radomes.

This report presents a comprehensive overview, market shares, and growth opportunities of 5G mmWave Antenna Radomes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Material System:

Microcellular Foam Materials

PTFE-based Composites

Quartz and Glass Fiber Composites

Reinforced Engineering Plastics

Others

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

Segmentation by Manufacturing Process:

Injection Molding

Foam Molding and Expansion

Compression Molding

Lamination and Sandwich Bonding

Others

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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global 5G mmWave Antenna Radomes market?

What factors are driving 5G mmWave Antenna Radomes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 5G mmWave Antenna Radomes market opportunities vary by end market size?

How does 5G mmWave Antenna Radomes break out by Material System, by Application?

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