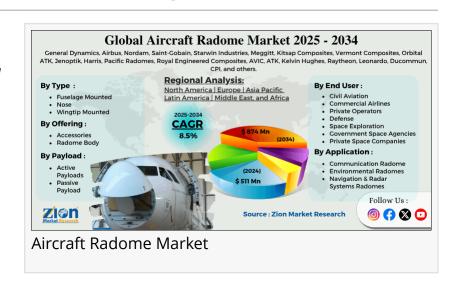


# Aircraft Radome Market Size Poised to Reach \$874 Million by 2034, Growing at 5.5% CAGR

The global aircraft radome market size was worth around USD 511 million in 2024 and is predicted to grow to around USD 874 million by 2034

PUNE, MAHARASHTRA, INDIA, August 11, 2025 /EINPresswire.com/ -- [] Global Aircraft Radome Market Research Report (2024–2034): Trends, Growth Drivers, Regional Insights & Forecast Analysis []



#### Market Overview

The global aircraft radome market was valued at approximately USD 511 million in 2024 and is projected to reach USD 874 million by 2034, growing at a compound annual growth rate (CAGR) of roughly 5.5% between 2025 and 2034.



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Deepak Rupnar

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An aircraft radome is a structural, weatherproof enclosure that protects radar antennas from harsh environmental conditions while allowing electromagnetic signals to pass through with minimal attenuation. These structures are essential in both military and commercial aircraft to

safeguard sensitive radar systems used for communication, navigation, and surveillance.

The demand for radomes is closely linked to the growth of aircraft production, defense modernization, and advancements in radar technology. Furthermore, as airlines and military forces focus on enhanced safety, navigation accuracy, and operational efficiency, the importance of reliable radome systems continues to grow.

## **Key Insights**

As per the analysis shared by our research analyst, the global aircraft radome market is estimated to grow annually at a CAGR of around 5.5% over the forecast period (2025-2034). In terms of revenue, the global aircraft radome market size was valued at around USD 511 million in 2024 and is projected to reach USD 874 million by 2034.

The expansion in the aerospace sector is expected to drive the aircraft radome market over the forecast period. Based on the offering, the radome body segment is expected to hold the largest market share over the forecast period.

Based on the type, the fuselage mounted segment is expected to dominate the market expansion over the projected period.

Based on the payload type, the active payloads segment is expected to capture the largest market share over the projected period.

Based on the application, the communication radome segment is expected to capture the largest market share over the projected period. Based on the end user, the commercial airlines segment holds a significant market share over the forecast period.

Based on region, North America is expected to dominate the market during the forecast period.

Global Aircraft Radome Market, 2020-2034 (USD Million) 874 Mn Revenue (USD Mn/Bn) **Zi**@n CAGR: 5.50% Source: Zion Market Research Aircraft Radome Market Size **GENEERAL AIRBUS NORDAM DYNAMICS** SAINT-GOBAIN ST MEGGITT **KITSAP VERMONT KITSAP** COMPOSITES COMPOSITES **PACIFIC** RADOMES **JENOPTIK** KELVIN Kavtheon COMPOSITES **AVIC** Ducommun

Aircraft Radome Market Competitive Analysis

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☐ Market Growth Drivers Several key factors are fueling the growth of the aircraft radome market:

## **Increasing Aircraft Deliveries**

With rising global air traffic and fleet expansion plans by airlines, the demand for new aircraft is on the rise, leading to increased installation of advanced radome systems.

## Advancements in Radar Technology

Modern radomes must be designed to support high-frequency radar systems (such as AESA—Active Electronically Scanned Array) used in next-generation aircraft.

## Rising Defense Budgets

Nations worldwide are investing heavily in military aircraft modernization, boosting demand for specialized military-grade radomes.

## Maintenance, Repair & Overhaul (MRO) Demand

Aging aircraft fleets require frequent radome maintenance and replacement, further driving aftermarket sales.

## Increased UAV & Drone Deployment

The rising use of UAVs (Unmanned Aerial Vehicles) for surveillance, mapping, and defense missions is creating a new demand segment for lightweight radomes.

## □□ Market Challenges

Despite strong growth prospects, the market faces certain challenges:

High Manufacturing Costs – Advanced composite radomes require expensive raw materials and precision engineering.

Stringent Aviation Regulations – Certification processes for aircraft components are time-consuming and complex.

Material Performance Requirements – Radomes must balance durability with low signal interference, which limits material options.

# ☐ Market Segmentation

By Material Type

Glass Fiber-Reinforced Plastics (GFRP) – Widely used due to affordability and strength.

Quartz Fiber Composites – Preferred in high-performance military radomes for minimal signal loss.

Kevlar & Advanced Composites – Offer exceptional impact resistance and are used in combat aircraft.

# By Application

Commercial Aircraft - Passenger and cargo aircraft.

Military Aircraft – Fighter jets, bombers, transport aircraft.

Unmanned Aerial Vehicles (UAVs) – Surveillance and tactical drones.

# By Sales Channel

OEM (Original Equipment Manufacturer) – Radomes installed on new aircraft. Aftermarket (MRO) – Replacement and repair radome solutions.

☐ Regional Market Analysis

The global aircraft radome market demonstrates distinct growth trends across different regions:

#### 1. North America

Market Size (2024): USD 190 million Projected Size (2034): USD 320 million

CAGR: ~5.3%

North America holds the largest market share, driven by:

Strong presence of major aircraft manufacturers like Boeing, Lockheed Martin, and Northrop Grumman.

High defense spending by the U.S. Department of Defense.

Significant MRO activities and modernization programs.

## 2. Europe □□

Market Size (2024): USD 140 million Projected Size (2034): USD 240 million

CAGR: ~5.4%

## Europe benefits from:

Advanced aerospace manufacturing hubs in France, Germany, and the UK. Strong demand from both commercial aviation (Airbus) and defense sectors. Technological innovations in lightweight composite materials.

## 3. Asia-Pacific (APAC)

Market Size (2024): USD 110 million Projected Size (2034): USD 200 million

CAGR: ~6.2%

The fastest-growing region due to:

Rising air travel in China, India, and Southeast Asia.

Government initiatives for indigenous aircraft production.

Expanding military aircraft programs.

## 4. Middle East & Africa (MEA)

Market Size (2024): USD 40 million Projected Size (2034): USD 70 million

CAGR: ~5.7%

MEA growth is fueled by:

Expanding defense budgets in Saudi Arabia, UAE, and Israel.

Fleet expansion by regional airlines like Emirates and Qatar Airways.

Strategic geographic positioning for aviation hubs.

5. Latin America

Market Size (2024): USD 31 million Projected Size (2034): USD 44 million

CAGR: ~3.6%

Latin America shows steady growth, led by:

Aircraft modernization efforts in Brazil and Mexico.

Growing MRO industry in the region.

Emerging demand for UAV surveillance systems.

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☐ Competitive Landscape

The global aircraft radome market is dominated by players like:

**General Dynamics** 

**Airbus** 

Nordam

Saint-Gobain

Starwin Industries

Meggitt

Kitsap Composites

**Vermont Composites** 

**Orbital ATK** 

Jenoptik

Harris

Pacific Radomes

**Royal Engineered Composites** 

**AVIC** 

**ATK** 

Kelvin Hughes

Raytheon

Leonardo

Ducommun

CPI

These companies focus on R&D investments, strategic partnerships, and material innovation to maintain competitive advantage.

☐ Future Outlook (2025–2034)

Increased UAV Adoption: Civil and military drone usage will open new radome design opportunities.

Shift to Advanced Materials: Next-gen radomes will use nanomaterials and hybrid composites for superior performance.

3D Printing in Manufacturing: Additive manufacturing will reduce production costs and speed up prototyping.

Integration with AI Radar Systems: AI-driven radar systems will require radomes with enhanced frequency adaptability.

#### Conclusion

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The global aircraft radome market is set to witness steady and sustainable growth over the next decade. With a rising emphasis on radar performance, lightweight materials, and global aircraft production, radome manufacturers are expected to benefit from both OEM and aftermarket opportunities.

Regional differences will play a key role, with APAC showing the fastest growth, while North America will remain the largest market due to its strong aerospace ecosystem.

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