

**Reduced Drag!  
Bird Strike  
Compliant!**

# AeroShield™ - Low Drag Radome For Fuselage Mounted SATCOM Systems



## COST SAVINGS BENEFITS

- Highly optimized aerodynamic shape reduces drag and increases fuel savings.
- Bird Strike compliance with FAA Issue Papers for Large Radome Installations reduces certification time and cost.
- ARINC 791 compliant installation eliminates costly over-engineered installations.
- Simplifies maintenance inspections and reduces life cycle costs.
- Advanced adapter plate design optimization minimizes system weight.

## ARINC 791 MOUNTING STANDARD COMPLIANT

- Creates a simplified & standardized installation.
- Provides future-proofing of SATCOM installations, allowing future SATCOM upgrades when available.
- Provides for commonality & interchangeability across entire fleets.
- Provides for easy de-modification during end-of-lease restoration.

## KEY FEATURES

- RF performance is optimized for Ku band only, providing maximum RF transmissivity.
- Applicable to Ku band broadband data and DBS-TV SATCOM systems.

## KEY FEATURES

- Aerodynamic radome and adapter plate follows the curvature of the aircraft skin without requiring a large installation doubler, sealants, or fasteners through the aircraft skin.
- Installation fittings attach to variable aircraft frame spacings for maximum installation flexibility.
- Extra safety design features include bird strike hardness. Radome is compliant with revised FAA guidance on Radome bird strike testing.
- DER approved loads report is available to support STC.
- Radome kit is retrofittable to replace current higher drag radomes in use today.

## SYSTEM COMPONENTS

The Low Drag Radome kit is composed of 2 aircraft component's:

1. Fuselage Adapter Plate plus fittings.
2. Radome.

## WEIGHT

- Radome: <56lbs.
- Adapter Plate: <30lbs.





Radome & Mounting Adapter Plate



Mounted to Fuselage

### APPLICABLE AIRCRAFT

- Designed specifically for any Air Transport Category aircraft that utilizes fuselage mounted SATCOM antennas.
- Applicable aircraft types include:
  - Airbus ACJ, A319, 320, 321
  - Airbus A330, 340, 380
  - Boeing BBJ, 737
  - Boeing 747, 767, 777
  - Embraer E-195/190/175/170
  - Bombardier C-Series
  - Sukhoi Superjet
  - Mitsubishi MRJ
  - COMAC C-919

### DIMENSIONS

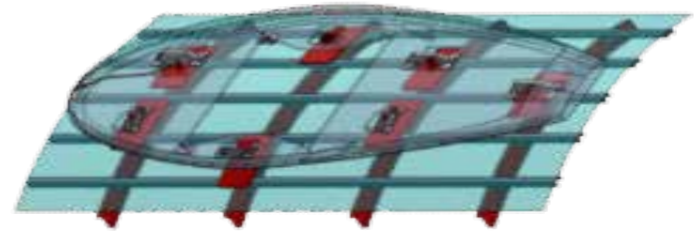
- Radome - 15.4”H x 96.1”L x 40.6”W
- Adapter Plate - 3.2”H x 86.2”L x 39.4”W

### CERTIFICATION

- Complies with applicable FAA FAR Part 25/26 regulations.
- Complies with 14 CFR paragraph 25.571(e)(1) bird-strike testing requirements.
- Complies with lightning strike and grounding guidelines stated in SAE ARP5412, SAE ARP5414, SAE ARP5416, and SAE ARP1870.
- Designed-in robustness for aircraft environmental stresses such as shock, vibration, and g loads.



Internal View



Radome & Plate Mounted to Aircraft Structure

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