






Inflight Connectivity Systems & Fuel Burn

CHALLENGE

Do flat panel antennas have a significantly lower added fuel burn than GEE's Airconnect system?



FACTS

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Fuel burn penalty is a function of radome drag plus the total weight of the antenna, radome and associated components
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Induced drag from the radome is a function of the radome's size, shape and location on the airframe
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Competitors' "flat panel" radomes may have a lower drag, but the surface area and heavier total installed weight more than offset any drag advantage
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The "traditional gimbaled radome" system used in comparisons was rejected by GEE six years ago and is not the current GEE Airconnect system
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The GEE Airconnect system is flying on over 700 aircraft, with data from millions of flight hours confirming GEE's low fuel burn penalty

GEE ADVANTAGE



Equivalent Weight Penalty	Flat Panel	Airconnect
Radome Drag	6.0 lbs.	10.7 lbs.
Lift/Drag Ratio	16.8	16.8
Equivalent Aero Weight	101 lbs.	180 lbs.
Hardware Weight	353 lbs.	239 lbs.
Total Equivalent Weight	454 lbs.	419 lbs.

CONCLUSION

The fuel burn impact of GEE's Airconnect system is lower than flat panel antenna systems.