Anti-GPS Jamming & Spoofing Solution

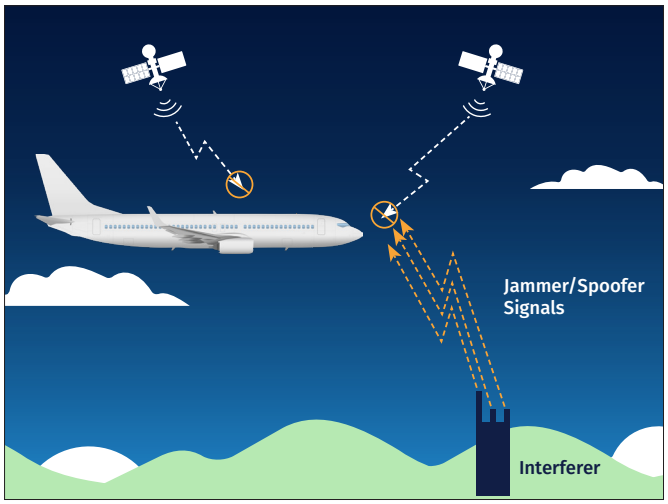
Fly with confidence - even in contested GPS environments

Although aviation remains the safest mode of transportation, a new operational risk has emerged in recent years: deliberate and (un)intentional interference of GPS signals.
Across several regions, particularly in the Middle East, Eastern Europe, and the Eastern Mediterranean, pilots are increasingly reporting loss or manipulation of GPS signals during flight. These incidents, known as jamming and spoofing, directly affect the reliability of GPS-based avionics and navigation systems, reducing situational awareness and increasing cockpit workload.

Understanding the threat

Jamming occurs when strong local radio signals overpower satellite transmissions, causing the aircraft's GPS receiver to lose lock and disabling GPS-based navigation.

Spoofing is more sophisticated; false GPS signals mislead onboard systems about the aircraft's true position or time. This can cause route deviations, loss of terrain awareness, and increased cockpit workload.
While jamming can be intentional or unintentional, spoofing is deliberate and represents a fast-growing threat to flight safety. The underlying Controlled Reception Pattern Antenna (CRPA) technology that counters these effects is already proven in military operations worldwide, protecting various aircraft types against GPS interference, now adapted and certified for the civil aviation market.



A new standard in protection: the CRPA Antenna

Fokker Services Group has developed an aircraft-grade Anti-GPS Jamming & Spoofing Solution, built around a Controlled Reception Pattern Antenna (CRPA).

Unlike conventional GPS antennas, a CRPA consists of multiple antenna elements whose reception pattern is continuously optimized by an internal processor.

Through adaptive null-steering and adaptive filtering, the system suppresses interfering signals while maintaining reception of legitimate satellite data.

These advanced algorithms ensure continuous, validated GPS position and timing information even in environments affected by severe interference or (un)intentional jamming.

Benefits of Fokker Services Group' CRPA-based solution:

- Enhanced operational resilience in GPS-challenged regions
- Certified EASA-approved design and full certification support under our Part 21J certification
- Certified modification kit with engineering bulletins and installation data
- No crew retraining required: transparent integration with existing avionics
- No flight-deck workload during interference events; systems continue to function as normal
- Peace of mind for pilots, dispatchers, and passengers alike

Our easy-to-integrate solution allows operators to quickly upgrade their fleet with minimal downtime, ensuring continuous GPS availability and data integrity across all flight phases.

Certification & availability

Fokker Services Group' Anti-GPS Jamming & Spoofing Solution is certified under EASA Supplemental Type Certificates (STCs) for:

- Boeing 737NG / MAX
- Boeing 747-400F / -8F

Both STCs will be available in Q3 2026

Additional aircraft types can be supported on request as part of our ongoing certification roadmap.

About Fokker Services Group

Fokker Services Group is an independent aerospace service company with a global reach. Providing comprehensive solutions from its five facilities in Europe, Asia and the Americas, Fokker Services Group is a key partner for regional, narrow-body and wide-body platforms in the Commercial, VIP, Cargo and Defense markets. The organization offers a unique set of capabilities, products and services: 'Modifications & Engineering Services' for the latest technical solutions; 'Component Services' such as nose-to-tail programs, exchange services, and component repairs; 'Material Services' such as parts manufacturing, spares deliveries, and tear-downs; 'Airframe Services' for aircraft MRO including lease transitions and painting; and 'Aircraft Completion & Conversion Services' for Executive, VVIP and Special Mission aircraft.

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