



See the Threats

Multipurpose Antenna

A Collision Avoidance for fixed and rotary wing aircraft is not an easy task. Multiple mid-air collisions occur yearly with nearly half being fatal and almost all during daylight hours in good visibility.

The Multipurpose Antenna is an active and cooperative traffic awareness and collision avoidance technology for aircrafts in one compact system. The system combines a PowerFLARM® transponder, ADS-B In, and a GPS receiver using a single antenna. The Multipurpose Antenna broadcasts own Aircraft position and speed while using received data from FLARM-equipped aircraft to calculate potential collisions.

PowerFLARM uses a high power sensitive radio receiver which increases the detection range to more than 10 km. The ADS-B receiver actively processes received Mode-C, Mode-S and ADS-B messages on 1090 MHz and calculates potential collisions. The increased detection range of the ADS-B receiver provides the pilot with ample time to take corrective actions to mitigate potential collisions.

The Antenna makes flying in densely populated airspace safer by determining potential collisions with other FLARM transponder equipped aircraft.

Key Benefits

- Solution for several aircraft types
- Transmit, receive and processing combined in one compact system
- FLARM® transponder for collision warning
- 1090MHz ADS-B receiver for visualization of traffic information (altitude, heading, speed)
- PowerFLARM® 868 – 928 MHz transponder
- Increased system performance due to smart antenna concept
- Intuitive Traffic Warning
- Cost effective solution