

# MASS™ MILITARY AIRBORNE SURVEILLANCE SYSTEM

Enhanced TCAS solution for unique military requirements.

ACSS has developed an advanced, military-specific application based on our next generation commercial surveillance systems. The Military Airborne Surveillance System (MASS) is an innovative platform utilizing 'active' TCAS II surveillance and Automatic Dependent Surveillance-Broadcast (ADS-B) technologies to fulfill unique military requirements for formation flight and rendezvous operations within the Civil Airspace.

Available on the T<sup>3</sup>CAS hardware platform, it includes functions for the ACSS Cooperative Member functionality, a subset of MASS, for identification and alerting and RF power reduction. Formation members are identified and uniquely displayed. Normal TCAS II advisories are inhibited for formation members, which have a unique alert annunciation and threshold levels.

The use of ADS-B and adaptive power level interrogation techniques limits RF interference to enable formation flight within the civil ATC environment without restrictions, while providing an enhanced surveillance volume compared to TCAS II systems. The system includes cooperative member identification using Flight ID, Mode A or Mode 2 codes and features the ability to select an aircraft for display of aircraft-specific data.

The MASS includes the standard TCAS modes of operation as well as a Cooperative Flight Mode that can be selected to support operation in cooperative flight situations such as formation or rendezvous operations. When Cooperative Flight Mode is not selected, the system performs normally as a TCAS/ACAS II collision avoidance system. T<sup>3</sup>CAS with MASS is typically used with a Mode S/IFF transponder in addition to the internal transponder. T<sup>3</sup>CAS has been tested for interoperability to several industry models.

## DISCOVER MORE:

[www.L3Harris.com/avionics](http://www.L3Harris.com/avionics)



## SAFETY

### AND UNIQUE FUNCTIONALITY

- > Enhanced software version of T<sup>3</sup>CAS
- > Enhanced surveillance volume
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