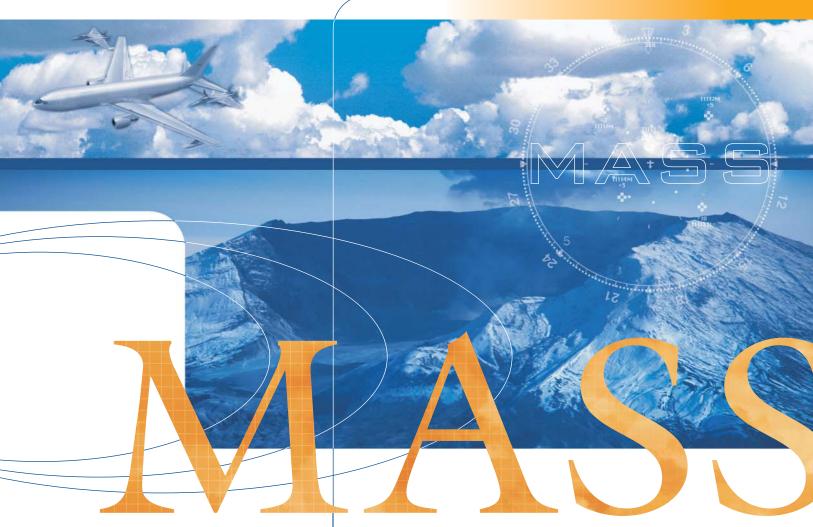


Military Airborne Surveillance System (MASS™)

MILITARY ENHANCED TCAS-THE NEXT GENERATION



Selected by Boeing for the 767 Global Tanker Transport Aircraft

Software upgrade to the TCAS 2000 or T²CAS™

Enhanced surveillance volume

Supports clustering of up to 50 aircraft

Designed to comply with ATC guidelines

Higher resolution ranges for close-in operations

Complete surveillance solution-TCAS, TAWS and Mode S/IFF products

Unrestricted formation/rendezvous capabilities within civil airspace (No platform, clustering or altitude restrictions)

The Flexible Solution

ACSS has developed a military-specific application from our commercial surveillance system that addresses unique requirements of the military. This set of technologies is known as Military Airborne Surveillance System (MASSTM) and is based on commercial Automatic Dependent Surveillance-Broadcast (ADS-B) technology. The ACSS Cooperative Member functionality, a subset of MASS, is a software change to the TCAS 2000 or T²CASTM computer and the Mode S/IFF Transponder that provides a system capable of supporting unique military flight requirements such as formation flight and rendezvous operations in commercial airspace.

The use of ADS-B and adaptive power level interrogation techniques will prevent interference with the civil ATC environment. The system will include cooperative member identification using Flight ID and Mode S address, unique cockpit display characteristics for cooperative members, and the ability to select an aircraft for display of specific aircraft data.

In addition to standard TCAS modes, the MASS product provides military operational modes that support operation in cooperative flight situations such as large formation or rendezvous operations. When Cooperative Flight Mode is not selected, the system will perform normally as a TCAS/ACAS II collision avoidance system.

MASSTM ... The Flexible Solution







TCAS R/T

Physical

Dimensions (W x H x D)

Weight

Power

4.9 x 7.6 x 15.2 in.

14.7 lbs.

28 Vdc or 115 Vac

Environmental

Temperature (Operating)
Altitude
Cooling
Environment
Shock, Vibration
EMI

Coperating
Structure (Operating)
-55 to +70° C
55,000 Ft.
No Cooling Required
ARINC DO-160C
MIL 810
MIL 461

XS950SI Mode S/IFF Transponder

Physical

Dimensions (W x H x D) 4.9 x 7.6 x 15.2 in.
Weight 11.5 lbs.
Power 28 Vdc or 115 Vac

Environmental

Temperature (Operating)
Altitude
Cooling
Environment
Shock, Vibration
EMI

-55° to +70° C
55,000 Ft.
Per ARNIC 600
ARINC DO-160D
MIL 810
MIL 461

Optional CDTI Display

Physical

Bezel Dimensions Image Size Case Size Weight 4.815 in. x 6.25 in.

5.1 in. (W) x 3.8 in. (H), 6.3 in. diag. ARINC 708A

6.5 lbs.



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www.L-3com.com/acss

<u> Worldwide Customer Service & Support</u>

ACSS products are based on proven technology to provide you exceptionally high reliability and simplified maintenance. Support for engineering, logistics, commercial and repair support are available through our worldwide network of Customer Support Managers and Support Centers.

Customer Support Services are provided to aircraft manufacturers and operators. On-site assistance is available to support system integration, troubleshooting, analysis, rework, retrofit and repair of ACSS equipment. Services include AOG/Emergency Services, Repairs, Maintenance Agreements, Technical Support, Publications, Training, and Database Service.

Interfaces

TCAS ARINC 429/735
TAWS ARINC 762/453
FMS ARINC 702 (growth)
DME ARINC 568 (growth)
INS ARINC 561 (growth)

Weather Radar ARINC 708A, Collins WRX-700X, Honeywell RDR-4A/RDR-4B55,000 Ft.

Aviation Communication & Surveillance Systems

ACSS, an L-3 Communications & Thales Company, is a leader in safety avionics systems. ACSS products include the TCAS 2000 and TCAS 1500 traffic alert and collision avoidance systems, a family of Mode S transponders, the T²CAS™, a combined traffic and terrain collision avoidance system, and MASS™, an enhanced TCAS system for military operations. More than 9,000 units of ACSS's TCAS products are operating in commercial, corporate and military aircraft.