

T³CAS

A single LRU with the flexibility to host any combination of the following functions:

Traffic Alert and Collision Avoidance System (TCAS)

Terrain Awareness Warning Systems (TAWS)

Mode S Transponder

SafeRoute ADS-B Solutions

Air Traffic Situational Awareness ADS-B applications (ATSA)

Growth capability for future functions such as 1090 Enhanced Bandwidth

Increased safety and situational awareness both in the air and on the ground

Compatible with the Next Generation Air Traffic Control System (NGATS)

Less weight, volume, and power consumption than a federated system

Lower acquisition and ownership cost

Backward compatible with TCAS 2000 and T²CAS[™]

Safety & Efficiency in an Integrated Surveillance Package

T³CAS[™] Traffic Management Computer is the next generation integrated communication and surveillance system from ACSS. ACSS combines multiple products into a single integrated surveillance computer. The T³CAS features TCAS II, performance-based Class A TAWS, and Mode S Transponder updated for DO-260B with full ADS-B IN/OUT capability. The T³CAS provides operators with proven performance and reliability of TCAS, TAWS, Mode S and ADS-B functions with the benefits of reduced weight, volume, wiring, and power consumption in an integrated platform.

T³CAS uses an integrated RF transceiver module for the TCAS and Mode S functions. As a result, only a single set of antennas is required and the aircraft antenna count and cabling is reduced. The T³CAS platform delivers full functionality in both 6- and 4-MCU sizes, and fits into existing TCAS 2000 or T²CAS rack and connectors.

NextGen avionics like ACSS's suite of SafeRoute[™] Automatic Dependent Surveillance-Broadcast (ADS-B) applications can be hosted in T³CAS. SafeRoute ADS-B IN applications include Surface Area Movement Management (SAMM), Merging & Spacing (M&S), In-Trail Procedures (ITP), Traffic Information Service-Broadcast (TIS-B) and Cockpit Display of Traffic Information (CDTI).

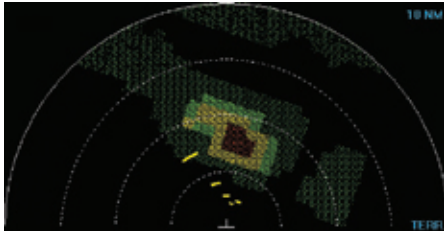
The T³CAS can also host ADS-B applications that are in compliance with Eurocontrol's Air Traffic Situational Awareness (ATSA). ATSA applications provide enhanced traffic situational awareness on the airport surface and during flight operations such as Sequencing & Merging, Visual Separation on Approach (VSA), and In Trail Procedures.

For proven functionality, lower acquisition and ownership cost, and increased safety and efficiency, choose T³CAS Traffic Management Computer from ACSS for your new aircraft.

Safety & Efficiency in an Integrated Surveillance Package

T³CAS™

Base P/N: 9005000



PHYSICAL SIZE

Dimensions 4 MCU (7.6 in. H x 4.9 in. W x 15.8 in. L)
6 MCU (7.6 in. H x 7.5 in. W x 15.3 in. L)

Weight/Power 4 MCU: 16.5 lbs. (7.5 kg) / 115 VAC and 28 Vdc
6 MCU: 17.6 lbs. (8.0 kg) / 115 VAC and 28 Vdc

Power Consumption 100 watts nominal

Cooling 6 MCU requires forced air cooling per ARINC 600,
4 MCU has an internal fan

Operating Altitude Sea level to 55,000 feet

Operating Temperature -55 to 70 degrees C

Storage Temperature -55 to 85 degrees C

Data Loading UDP Protocol based Ethernet connection
compliant with ARINC 615A

Antenna TCAS Directional Antenna P/N 7514081

CERTIFICATION

TSO Transponder (C112)
Windshear (C117a)
TCAS (C119b)
TAWS (C151b)
ADS-B & TIS-B (C166a)

Environmental DO-160E
Software DO-178B Level B

ADS-B Operation DO-260A 1090 MOPS
for extended range

ADS-B Receiver Availability > 95%



REGIONAL, BUSINESS & MILITARY CUSTOMERS

Aviation Communication & Surveillance Systems

19810 N. 7th Avenue
Phoenix, AZ 85027-4400
Telephone: +1-623-445-7000
Fax: +1-623-445-7001
www.acss.com

AIR TRANSPORT CUSTOMERS

Thales Avionics
www.thales-avionics.com

Europe, CIS, Africa & Middle East
Phone: +33-5-6119-7692
Fax: +33-5-6119-6820

Americas
Phone: +1-732-494-1421
Fax: +1-732-494-1010

Asia Pacific
Phone: +6-6542-25-33
Fax: +6-6542-96-50



Aviation Communication & Surveillance Systems

Phoenix-based Aviation Communication & Surveillance Systems (ACSS), 70% owned by L-3 Communications and 30% owned by Thales, is a leader in safety avionics systems that increase safety, situational awareness and efficiency for aircraft operators in all phases of flight. More than 60,000 units of ACSS product are operating in commercial, corporate and military aircraft. To learn more about ACSS, please visit the company's web site at www.acss.com.

WORLDWIDE CUSTOMER SERVICE & SUPPORT

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 Service Managers and Support Centers.

Customer 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.