



IFF Mode 5 growth plan

Supports Level 4 Mode S

DoD AIMS 97-1000 certified

Supports Modes 1, 2, 3/A, C, 4

Integrated IFF and Mode S transponder

European Enhanced Surveillance
(DO181B) certified

Demonstrated MTBF reliability
in excess of 8,000 hours

Built for the Future

The ACSS commercial-off-the-shelf Identification Friend or Foe (IFF) Transponder (XS-950SI) was selected and certified by the U.S. Navy as the transponder of choice for C-130, VP-3, C-12, and C-2 aircraft. Boeing selected the XS-950SI for the 767 Global Tanker Transport for domestic and international tankers, and the U.S. Army selected the XS-950SI for the UC-35 Citation Ultra. The XS-950SI is also gaining an international market presence on such platforms as the Embraer 135 and 145. Maximizing the use of commercial-off-the-shelf technology, the XS-950SI enables coordinated and simultaneous Mode S and IFF capability that is necessary for TCAS II operations. The FAA certified XS-950SI is a full-featured transponder implementing all currently defined Mode S and IFF functions, including DO181B Elementary & Enhanced Surveillance, GPS position, velocity, Flight ID extended squitter with built-in growth for future IFF Mode 5.

XS-950SI ... Built for the Future



ACSS-003-04-02 ©ACSS, Dec. 2002

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System Specifications

Part Number

7517800-1000x (AC version) or
7517800-5500x (DC version)

Physical Size

4 MCU

Weight

11.5 lbs

Mounting

ARINC 600 4 MCU Mount

Cooling

ARINC 600

Certification

Environmental Specifications

DO-160C

T SO/ JT SO/ DoD

C 112/ 2C112/ AIMS 97-1000

Software

DO-178B Level B

Transponder Data Link Capability

ICAO Level 4 (COMM-A/B/C/D)

ADS-B Capability (part numbers -X003/4/5) 1090ES Extended

Squitter per RTCA DO-260 MOPS for 1090

ADS-B Equipment

Sea level to 70,000 feet

Operating Altitude

-55 to 70 degrees C

Operating Temperature

-55 to 85 degrees C

Storage Temperature

Power

115VAC, 400Hz or 28 VDC

Power Consumption

40 Watts (standby), 85 Watts (maximum)

Number of Antenna Ports

2 (diversity)

Interfaces

Controller

Low speed ARINC 429

TCAS II

High speed ARINC 429

Airborne Data Link Processor (ADLP)

High speed ARINC 429

Altimeter

ARINC 429/ 575 (digital air data),

ARINC 407 (synchro), Gilham 11-wire discrete

Flight Identifier

Low speed ARINC 429

Maintenance Computer (Airbus & Boeing)

Low speed ARINC 429

Portable Data Loader

ARINC 615



19810 N. 7th Avenue
Phoenix, AZ 85027-4400
Telephone: (623) 445-7000
Fax: (623) 445-7001
www.L-3com.com/acss

Teamed with 

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 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.

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.