

# L-3 AR Maritime Products

## PROTEC-A AIRBORNE AIS



The L-3 PROTEC-A Airborne Automatic Identification System (AIS) transponder provides commercial and civil aircraft the ability to track and identify AIS-equipped vessels and report aircraft position over a dedicated VHF datalink. The PROTEC-A is a fully compliant AIS transceiver and has been designed in accordance with D0-160E environmental test standards.



### KEY FEATURES

- Designed and tested in accordance with D0-160E
- Meets applicable performance and protocol standards for maritime AIS
- Increased receiver sensitivity improves performance and coverage
- Advanced RF filtering reduces interference risk
- Open protocol simplifies integration with AIS and RADAR display systems
- Supports Receive-Only and Transmit/Receive operation
- Compact and robust design
- Optional ARINC interface



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## PROTEC-A AIRBORNE AIS

### PHYSICAL DIMENSIONS

Height:	152.4 mm (6.0 in)
Width:	101.6 mm (4.0 in)
Depth:	268 mm (10.55 in)
Weight:	4.54 kg (<10.0 lbs)

### POWER REQUIREMENTS

Input:	28V DC
Nominal Power:	13W
Peak Power:	50W

### DATA I/O

Sensor Input:	(3) RS422/232
Bi-Directional I/O:	(3) RS422/232 I/O
ARINC Support:	Optional

### TRANSMITTER PERFORMANCE

TX Frequency Range:	156.025 – 162.025 MHz
TX Power Control:	1 – 12.5W

### RECEIVER PERFORMANCE

RX Frequency Range:	156.025 – 162.025 MHz
# AIS Receivers:	2
DSC Receiver:	1 (optional)

### GPS RECEIVER

# Channels:	16
Antenna Type:	5V active or passive

### ANTENNA CONNECTIONS

VHF Antenna:	N-Type
GPS Antenna:	TNC
Nominal Impedance:	50Ω

### MODES OF OPERATION

Standard:	Class A Transmit/Receive
Receive:	Receive only

### ENVIRONMENTAL STANDARDS

DO-160E

### TECHNICAL STANDARDS

IEC 61993-2, 61162, 60945, ITU 1371-3

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9100:2004 Rev. B Certified

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**communications**

**Aviation Recorders**

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C<sup>3</sup>ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.

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