

L-3 AR Maritime Products

PROTEC-SRX SECURE AIRBORNE AIS



The L-3 PROTEC-SRX* Airborne Automatic Identification System (AIS) Receiver provides maritime patrol and SAR aircraft with the ability to track and identify AIS-equipped vessels over a dedicated VHF datalink. AIS is a key component of any maritime ISR network and offers maritime authorities with the ability to better coordinate air and sea Search and Rescue, Surveillance and Interdiction operations. The PROTEC-SRX is fully compliant with the W-AIS protocol standard for secure AIS communications and offers a FIPS-approved encryption method for decoding of secure position reports and messages. The PROTEC-SRX has been designed in accordance with military environmental test standards.



KEY FEATURES

- Designed and tested in accordance with MIL STD 461F, MIL STD 704F and MIL STD 810G
- Meets applicable performance and protocol standards for maritime AIS
- Complies with W-AIS recommendations for secure messaging
- Encryption method has been verified to FIPS 140-2 standard
- Increased receiver sensitivity improves performance and coverage
- Advanced RF filtering reduces interference risk
- Open protocol simplifies integration with AIS and RADAR display systems
- Two modes of operation to support any mission profile
- Compact and robust design

**Product currently under development*



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PHYSICAL DIMENSIONS

Height:	28.575 mm (1.125 in)
Width	101.6 mm (4.0 in)
Depth:	152.4 mm (6.0 in)
Weight:	<2.0 lbs

POWER REQUIREMENTS

Input:	28V DC
Nominal Power:	5W
Peak Power:	15W

DATA I/O

Ethernet:	(1) TCP/IP or UDP 10/100 mb
Bi-Directional I/O:	(1) RS422/232 I/O

RECEIVER PERFORMANCE

RX Frequency Range:	156.025 – 162.025 MHz
# AIS Receivers:	4
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 Receive
Restricted:	Secure Receive

ENVIRONMENTAL STANDARDS

MIL STD 461F, 704F AND 810G

TECHNICAL STANDARDS

IEC 61993-2, 61162-1, ITU 1371-4

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

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Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (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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