The L-3 PROTEC™-MRX Secure Airborne Automatic Identification System (AIS) receiver provides maritime patrol and Search and Rescue (SAR) aircraft with the ability to track and identify AIS-equipped vessels over a dedicated VHF data link. AIS is a key component of any maritime ISR network and offers maritime authorities the ability to better coordinate air and sea search and rescue, surveillance and interdiction operations. The PROTEC-MRX is fully compliant with the STEDS EAIS protocol standard adopted by the U.S. DoD and DHS and offers a FIPS-approved encryption method for decoding of secure position reports and messages. The PROTEC-MRX has been designed in accordance with military environmental test standards.

**Product Description**

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**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 STEDS EAIS protocol standard 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
- Compact and robust design
SPECIFICATIONS

PHYSICAL DIMENSIONS
- Height: 3.07 cm (1.21 in.)
- Width: 12.07 cm (4.75 in.)
- Depth: 18.97 cm (7.47 in.)
- Weight: 0.9 kg (<2.0 lb.)

POWER REQUIREMENTS
- Input: 28 VDC
- Nominal Power: 5 W
- Peak Power: 15 W

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 to 162.025 MHz
- # AIS Receivers: 4
- DSC Receiver Capable: Yes

GPS RECEIVER
- # Channels: 50
- Antenna Type: 5 V, active or passive

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

MODES OF OPERATION
- Standard: Class A Receiver

ENVIRONMENTAL
- MIL-STD-461F, 704F and 810G

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

COMPANY CERTIFICATION
L-3 Henschel's Quality Management System is ISO 9001:2008 registered