Product Description

The L-3 PROTEC™-Airborne (PROTEC-A) 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 data link. The PROTEC-A is a fully compliant AIS transceiver and has been designed in accordance with DO-160E environmental test standards.

FEATURES

- Designed and tested in accordance with DO-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
## SPECIFICATIONS

### 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 lb.)

### POWER REQUIREMENTS
- **Input**: 28 VDC
- **Nominal Power**: 13 W
- **Peak Power**: 50 W

### 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 to 162.025 MHz
- **TX Power Control**: 1 to 12.5 W

### RECEIVER PERFORMANCE
- **RX Frequency Range**: 156.025 to 162.025 MHz
- **Number of AIS Receivers**: 2
- **DSC Receiver**: 1 (optional)

### GPS RECEIVER
- **Number of Channels**: 16
- **Antenna Type**: 5 V, active or passive

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

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### MODES OF OPERATION
- **Standard**: Class A Transmit/Receive
- **Receive**: Receive only

### ENVIRONMENTAL
- **DO-160E**

### TECHNICAL STANDARDS
- **IEC 61993-2, 61162, 60945, ITU 1371-3**

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

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