

L-3 AR Maritime Products

PROTEC-D AID-TO-NAVIGATION (AtoN) AIS



The L-3 PROTEC Desktop Aid-to-Navigation (AtoN) AIS is an IALA and IEC compliant marine aid that provides vital information to on-board navigation devices, Vessel Traffic Systems (VTS) and buoy tender services. The PROTEC-D is a version of our AtoN AIS that is suitable for office environments and is capable of both receive/transmit (IEC Type 3).



KEY FEATURES

- Fully compliant with IEC 62320-2, IALA A.126
- Low power consumption of less than 400 mAhr/day (in low power configuration)
- For use in protected environment
- Supports VDL configuration and monitoring
- Provides reference points on a ship's RADAR and ECDIS
- Provides health status of the AtoN device, including battery life and light burnouts
- Capable of interfacing with various instrumentation devices and transmitting the appropriate AIS binary messages.
- Supports VDL configuration and monitoring
- Designed to support chaining and RATDMA
- Capable of supporting synthetic and virtual transmissions



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PHYSICAL DIMENSIONS

Height:	59.944 mm (2.36 in)
Width	254.508 mm (10.02 in)
Depth:	184.404 mm (7.26 in)
Weight:	1.588 kg (3.5 lbs)

POWER CONSUMPTION

Nominal Receive:	4W
Peak Transmit:	24W

DATA I/O

Bi-directional I/O:	(2) RS232 38.4k BAUD
Diagnostic I/O:	(2) RS232 38.4k BAUD

TRANSMITTER PERFORMANCE

TX Frequency Range:	156.025 - 162.025 MHz
Tuning Resolution:	25 kHz
Modulation:	GMSK
TX Power Control:	1-12.5W
Nominal Impedance:	50Ω
Antenna Connection:	Type N

RECEIVER PERFORMANCE

# of Receivers:	2
RX Frequency Range:	156.025 - 162.025 MHz
Tuning Resolution:	25 kHz
Dynamic Range:	≥100 dB
Co-Channel Rejection:	≥10 dB
Adj. Channel Rejection:	≥72 dB
Intermod. Rejection:	≥65 dB
In-Band Blocking:	≥86 dB
Noise Figure:	≤5 dB
Nominal Impedance:	50Ω
Max Input:	+10 dBm (no damage)
Minimum Sensitivity:	≤-107 dBm
GPS Receiver:	16 Channel

ENVIRONMENTAL

Operating Temp Range: 0° to +50° C
Relative Humidity: 20 to 80%
*NOTE: All Specifications Tested @ 25° C

TECHNICAL STANDARDS

ITU 1371-3, IEC 62320-2

REGULATORY APPROVALS

BSH Approved

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

Aviation Recorders

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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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