

L-3 AR Maritime Products

PROTEC-W MARINE AIS



The L-3 PROTEC-W Marine Automatic Identification System (AIS) is a version of the Class A AIS Transponder that complies with the vessel tracking and tracing standard for inland navigation. With integrated blue sign support, the PROTEC-W offers a compact solution which can be easily installed into any bridge layout.



KEY FEATURES

- Single box design easily integrated in any electronic bridge system
- IMO compliant to 61933-2
- Complies with the vessel tracking and tracing standard for inland navigation
- Operational over 12-24VDC
- Integrated blue sign support



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PHYSICAL DIMENSIONS

Height:	8.33 cm (3.28 inches)
Width:	16.23 cm (6.39 inches)
Depth:	18.36cm (7.23 inches)
Weight:	2.54 kg (5.6 pounds)

POWER REQUIREMENTS

Input:	12 - 24VDC
Watts:	16W average/64W peak

DATA I/O

Pilot Port:	PI/38.4k BAUD
IEC Port:	(2) RS422 (bi-directional) (1) RS232* (1) RS422 (input only)**

* Blue Sign detection or PI Interface

**RS422 (input only) at 4800 BAUD, all others 38.4k BAUD

TRANSMITTER PERFORMANCE

TX Frequency Range:	156.025 - 162.025MHz
Tuning Resolution:	12.5 kHz
Modulation:	GMSK/FSK
TX Power Control:	1-12.5W
TX Power Accuracy:	±0.7dB
TX Frequency Drift:	±500Hz
Nominal Impedance:	50Ω
Antenna Connection:	Type PL259

RECEIVER PERFORMANCE

# of Receivers:	3
RX Frequency Range:	156.025 - 162.025MHz
Tuning Resolution:	12.5kHz
Dynamic Range:	≥100dB
Co-Channel Rejection:	≥10dB
Adj. Channel Rejection:	≥72dB
Intermod. Rejection:	≥74dB
In-Band Blocking:	≥86dB
Noise Figure:	≤5dB

RECEIVER PERFORMANCE cont'd

Nominal Impedance:	50Ω
Max Input:	+10dBm (no damage)
Minimum Sensitivity:	≤-107dBm
GPS Receiver:	16 Channel
DSC Receiver:	Fixed on Channel 70

ENVIRONMENTAL

Operating Temp Range: -15° to +55° C

Relative Humidity: 0 to 95%

NOTE: All Specifications Tested @ 25°C

TECHNICAL STANDARDS

IEC 61993-2

IEC 61162

IEC 60945

ITU 1371-3

Vessel tracking and tracing standard for inland navigation

REGULATORY APPROVALS

BSH pending

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9 100:2004 Rev. B Certified

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communications

Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and 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. The company reported 2007 sales of \$14 billion.