Product Description

The L-3 PROTEC™-M Marine Automatic Identification System Marine (AIS-M) is a collision avoidance and vessel tracking tool designed to improve the situational awareness of the command and control team, while facilitating secure AIS communication between military assets. With an integrated Minimum Keyboard Display (MKD), the L-3 PROTEC-M Marine AIS offers a compact solution, which is highly desirable in the space-constrained world of bridge electronics.

FEATURES

- Position and identification information for AIS-equipped vessels
- Ability to display AIS targets on ECDIS/ECS/ARPA with detailed navigation information
- Supports text messaging between vessels and VTS
- Smallest AIS package offering in the industry
- Non-proprietary encryption method for secure position reporting
- IMO compliant to 61993-2
- Transmit power ranges 1 to 12.5W
- STEDS protocol
## SPECIFICATIONS

### PHYSICAL DIMENSIONS
- **Height**: 8.33 cm (3.28 in.)
- **Width**: 16.23 cm (6.39 in.)
- **Depth**: 18.36 cm (7.23 in.)
- **Weight**: 2.54 kg (5.6 lb.)

### POWER REQUIREMENTS
- **Input**: 12 to 24 VDC
- **Watts**: 16 W average, 64 W peak

### DATA I/O
- **Pilot Port**: (1) RS422 (bi-directional)
- **IEC Port**: (2) RS422 (bi-directional), (3) RS422 (input only)

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

### RECEIVER PERFORMANCE
- **Number of Receivers**: 3
- **RX Frequency Range**: 156.025 to 162.025 MHz
- **Tuning Resolution**: 12.5 kHz
- **Dynamic Range**: ≥100 dB
- **Co-Channel Rejection**: ≥10 dB
- **Adjacent Channel Rejection**: ≥72 dB
- **Intermodulation Rejection**: ≥74 dB
- **In-Band Blocking**: ≥86 dB
- **Noise Figure**: ≤5 dB

### RECEIVER PERFORMANCE (cont’d)
- **Nominal Impedance**: 50 Ω
- **Maximum Input**: +10 dBm (no damage)
- **Minimum Sensitivity**: ≤ -107 dBm
- **GPS Receiver**: 16-channel
- **DSC Receiver**: Fixed on channel 70

### ENVIRONMENTAL
- **Operating Temperature Range**: -25 °C to +55 °C
- **Relative Humidity**: 0% to 95%

*NOTE: All specifications tested @ 25 °C*

### TECHNICAL STANDARDS
- IEC 61993-2
- IEC 61162
- IEC 60945
- ITU 1371-4

### REGULATORY APPROVALS
- BSH/4613/05902/0406/06
- USCG APR# 165.155/ECO735/4320357

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

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