

L-3 AR Maritime Products

PROTEC AIS BASE STATION



The L-3 PROTEC Automatic Identification System (AIS) Base Station is a vessel traffic monitoring tool which provides shoreside facilities with a means for monitoring vessel movements through VHF Data Link (VDL) to shipboard AIS Transponders. The PROTEC Base Station is fully compliant to IEC Test Standard 62320-1 for AIS Shore Stations.



KEY FEATURES

- IEC 62320-1 and IALA A.124 compliant
- Multi-client ethernet access
- Frequency agile transmitter
- User configurable output power 1-25W
- AC or DC power
- Optional separate RX/TX antenna
- Available with either a single TX/RX port or a separated TX/RX port



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PHYSICAL DIMENSIONS

Height:	133.35 mm (5.25 inches)
Width:	425.45 mm (16.75 inches)
Depth:	406.40 mm (16 inches)
Weight:	10.16 kg (22.4 pounds)

POWER REQUIREMENTS

AC:	110-240V AC, 50/60Hz
DC:	24-48V DC (optional)
Watts:	35W (rms) average 146W (rms) peak

DATA I/O

Utility 1 & 2:	Proprietary Diagnostics
Ethernet:	10/100 Base-T
PI Port:	RS232 115.2kB (max)
Sensor Input Port:	RS232 115.2kB (max)
DGNSS Input Port:	RS232 115.2kB (max)

TRANSMITTER PERFORMANCE

TX Frequency Range:	156.025 - 162.025MHz
Tuning Resolution:	25kHz
Modulation:	GMSK/FSK
TX Power Control:	1 - 12.5W
Intermod. Rejection:	≥40dB
TX Power Accuracy:	±1dB
TX Frequency Drift:	±500Hz
Nominal Impedance:	50Ω
Antenna Connection:	Type N

RECEIVER PERFORMANCE

# of Receivers:	3
RX Frequency Range:	156.025 - 162.025MHz
Tuning Resolution:	25kHz
Minimum Sensitivity:	≤-107dBm
Co-Channel Rejection:	≥10dB
Adj. Channel Rejection:	≥72dB
Intermod. Rejection:	≥74dB

RECEIVER PERFORMANCE

In-Band Blocking:	≥86dB
Noise Figure:	≤5dB
Antenna Connection:	Type N

ENVIRONMENTAL

Operating Temp Range:	-15° to +55° C
Operating Humidity Range:	0 to 95%

RELIABILITY

MTTR:	<1 hour
MTBF:	>100,000 hours

TECHNICAL STANDARDS

IEC 62320-1
IEC 60945
IEC 61162
IEC 61108-1
ITU 1371-3
IALA A.124

REGULATORY APPROVALS

BSH/46162/4320838/08

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