

AIS Receiver

High Sensitivity, Reliable AIS Receiver

i-ais-RX1 is an AIS Receiver device which basically receives AIS messages (including static, dynamic and voyage related data) from other AIS equipped devices (Vessels, AIS AtoNs, Base Station, etc.) within VHF coverage area, to enhance the safety of maritime navigation.



- Reception of all AIS messages (1 to 27)
- Full maritime band operation
- High receiving sensitivity performance
- Simultaneous dual-channel receivers
- Integrated GPS receiver
- Standard NMEA 0183 output for chart plotter/PC connection
- Single output for AIS and GPS sentences
- Robust housing (IP66)
- Suitable for harsh environments
- Easy installation
- Fully compliant with IEC and ITU standards
- Compatible with i-SEA Platform

GENERAL

- > Operating Temperature Range -15 °C to +55 °C
- > Storage Temperature Range -30 °C to +70 °C
- > Humidity Up to 93% at 40 °C non-condensing
- > Power Supply Voltage 12 - 24V DC (min/max:10-30 V DC)
- > Supply Current 200mA nominal @12 V DC
- > Size 152mm x 174mm x 121mm
- > Weight 1.5kg
- > Connectors VHF Antenna: N Female
GPS Antenna: TNC Female
Circular Plastic Connectors for NMEA, POWER
- > Case Aluminum Alloy (AlMg0,5Si) 6063
- > Case IP Rating IP-66
- > Interfaces 1 x RS-232 (NMEA)

RECEIVER

- > # of Receivers 2 (simultaneous operation)
- > Operating Frequency Range 156.025 – 162.025 MHz
- > Channel Spacing 25 kHz
- > Receiver Sensitivity Better than -107dBm
- > Co-Channel Rejection Better than 10 dB
- > Adjacent Channel Selectivity > 70 dB
- > Spurious Response Rejection > 70 dB
- > Intermodulation Response Rejection > 65 dB
- > Blocking or Desensitization > 86 dB
- > Spurious Radiation (conducted) < -57 dBm

GPS RECEIVER

- > # of Channels 50
- > Time to First Fix 29s Cold Start
29s Warm Start
<1s Hot Start
- > Receiver Sensitivity -160 dBm Tracking
-160 dBm Reacquisition
-144 dBm Cold Start

STANDARDS

- > AIS IEC 62320-2
ITU-R M.1371-4
IMO Res. MSC.74(69), Annex 3
- > Environmental & EMC IEC 60945
- > Safety IEC 60950-1

APPROVALS

- > CE DoC per R&TTE Directive-99/5/EC

AUTHORIZED DEALER

Technical specifications are subject to change without prior notice.