# AIS RX610





# AUTOMATIC IDENTIFICATION SYSTEM - RECEIVER

The AIS RX610 is based upon the new generation AIS Base Station range from Kongsberg, designed and tested in accordance with all relevant international standards including IEC 62320-1 and ITU M-1371-5, where applicable. It has a sensitivity better than -115 dBm and 1U 19" rack mountable smooth design.

The Kongsberg AIS RX610 is an AIS receiver specially designed for optimal signal reception. The AIS RX610 can receive from all AIS sources: AIS mobile stations, AIS base stations, AIS Aids to Navigation units, Search and Rescue (AIS SAR) units Man-over-Board (AIS MOB) units within the VHF coverage area. The AIS reception-only system has proven to be a valuable tool in increasing the situation awareness and the efficiency of operations and safety.

#### Remote configuration and operation

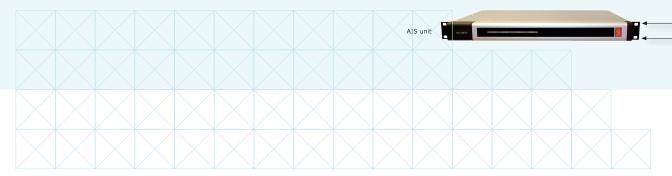
The AIS RX610 has an Ethernet/LAN interface, making it easy to interface the unit to other equipment or data networks. From the AIS Central Monitor Application a single AIS RX610, or a network of these, can be remotely operated and maintained. The AIS RX610 supports configuration and firmware update via a web interface.

#### Sensitivity

Kongsberg Seatex has also developed satellite based AIS receivers and this space-based AIS technology has strong focus on receiver sensitivity. The high sensitivity has been incorporated in the AIS RX610. The increased sensitivity exceeds the requirements in international standards and regulations, and is an incredible enhancement in terms of signal reception.

## **FEATURES**

- Sensitivity better than -115 dBm
- SNMP v 2
- WEB interface for remote configuration and software update
- Three remotely configurable receivers (TDMA/DSC)
- USB interface for firmware update
- Serial interface, data (RS-232)
- Optional combined 100 to 240 V AC and 24 V DC version
- Supporting NTP as client and server
- Own position message (synthetic VDO) for map presentation



## TECHNICAL SPECIFICATIONS

#### AIS RX610

Communication ports Service and redundancy,

RS-232 NMFA

Message formats 100 Mbs BaseT Ethernet I AN

RADIO MODULE

Sensitivity Better than -115 dBm

Bandwidth 25 kHz

Frequencies 156.025 to 162.025 MHz

Default Ch. 87B (161.975 MHz) Default Ch. 88B (162.025 MHz)

WEIGHTS AND DIMENSIONS

3 kg, 44 mm  $\times$  485 mm  $\times$  345 mm AIS RX610 Unit

AIS RX610\_24 V DC Unit 3.3 kg,  $44 \text{ mm} \times 485 \text{ mm} \times$ 

345 mm

0.15 kg, 230 mm x 33 mm GPS antenna

VHF antenna 1.0 kg, 1250 mm

POWER SPECIFICATIONS

AIS RX610 Unit 100 to 240 V AC (50 to 60 Hz) AIS RX610 24 V DC Unit Optional combined 100 to 240

V AC and 24 V DC

9 W average Power consumption

5 V DC from AIS Unit GPS antenna

**ENVIRONMENTAL SPECIFICATIONS** 

Operating temperature range

-15 to +55 °C AIS RX610 Units GPS antenna -50 to +70 °C -55 to +70 °C VHF antenna

Humidity

AIS RX610 Units < 95 % relative, non-condensing

GPS antenna  $100 \, \%$ , hermetically sealed VHF antenna 100 %, hermetically sealed

STANDARDS AND REGULATIONS (where relevant)

Electrical safety FN 60950-1

Electromagnetic

EN 60945/EN 61000-6-3/6-2 compatibility

Electrical interface IEC 61162-1/2

IALA recommendation A-124

IEC 61993-2 (clause 15), Radio

ITU-R M. 1371-5

MTBF (hours) >100.000 (designed to meet)

Specifications subject to change without any further notice.



VHF

antenna

GNSS antenna