

AIS RX610



KONGSBERG



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

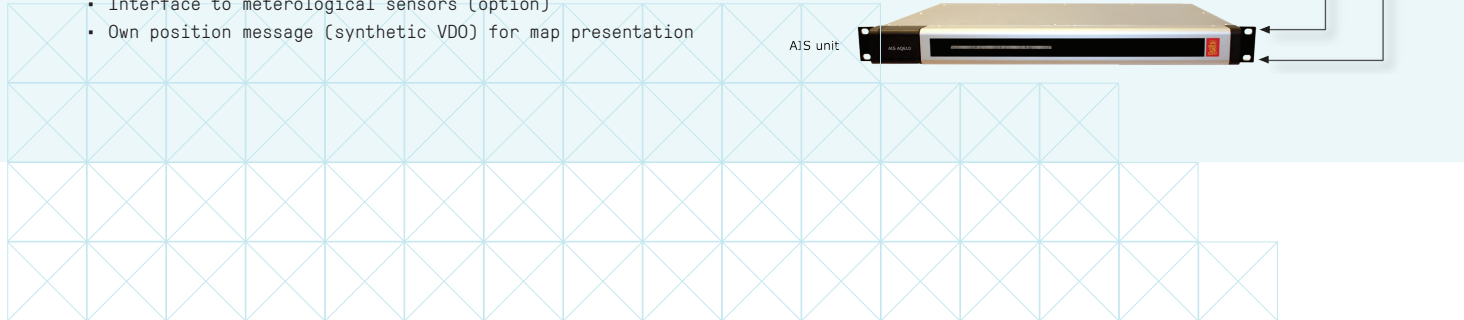
The AIS RX610 has an Ethernet/LAN interface, making it easy to interface the unit to other equipment or data networks. From the AIS Central Monitor Application a single AIS RX610, or a network of these, can be remotely operated and maintained. The AIS RX610 supports configuration and firmware update 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
- RTCM v.2.3 support for reception of DGPS corrections on LAN
- Three remotely configurable receivers (TDMA/DSC)
- USB interface for firmware update
- Transmission of virtual AtoN, implementation of a subset of IEC 62320-2 functionality
- Serial interface, data (RS-232)
- Optional combined 100 to 240 V AC and 24 V DC version
- Interface to meteorological sensors (option)
- Own position message (synthetic VDO) for map presentation



TECHNICAL SPECIFICATIONS

AIS RX610

INTERFACES

Communication ports	Service and redundancy, RS-232
Message formats	NMEA
LAN	100 Mbs BaseT Ethernet

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

AIS RX610 Unit	3 kg, 44 mm x 485 mm x 345 mm
AIS RX610_24 V DC Unit	3.3 kg, 44 mm x 485 mm x 345 mm
GPS antenna	0.15 kg, 230 mm x 33 mm
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
Power consumption	9 W average
GPS antenna	5 V DC from AIS Unit

ENVIRONMENTAL SPECIFICATIONS

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

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	EN 60950-1
Electromagnetic compatibility	EN 60945/EN 61000-6-3/6-2
Electrical interface	IEC 61162-1/2
IALA recommendation	A-124
Radio	IEC 61993-2 (clause 15), ITU-R M. 1371-5
MTBF (hours)	>100.000 (designed to meet)

Specifications subject to change without any further notice.

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