


RECEIVERS

# R400NXG NETWORK AIS RECEIVER WITH ETHERNET, GPS & USB

SKU: 001-1143

## FEATURES

- **Industry Grade Dual Channel AIS Receiver**
- **Ideal for land-based monitoring of sea traffic**
- **Ethernet network connectivity**
- **Internal GPS Receiver**
- **USB Connectivity**
- **Ideal for feeding vessel tracking data to a website or a vessel monitoring server**
- **Rugged aluminium housing**
- **Quick and easy to configure and install**
- **Universal AC power supply**

The difference between the R400N and R400NX is the network module installed within the product. The R400N uses a Digi module, whereas the R400NX uses a Lantronix XPort module, which follows a slightly different setup process.

## OVERVIEW

The R400NXG is an AIS receiver unit with built in GPS receiver, Ethernet interface and USB port is designed specifically for coastal monitoring of AIS equipped vessels.

Connected to an Ethernet Network directly or via a Router to a PC running compatible software, AIS data transmitted from ships within range can be displayed on the screen giving a visual interpretation of the traffic within VHF range. The unit can also be mounted at a remote location and AIS data sent over the Internet to a fixed IP address for use on a dedicated server.

The R400NXG has been specifically designed for use by the professional market and uses Comar's well proven and internationally specified high sensitivity dual channel parallel receiver.

## APPLICATIONS

- For shoreside monitoring of shipping by Government bodies
- Managing traffic at local port approaches
- Assisting in Search and Rescue operations
- Locating ships for local tug/supply operators
- Analysing shipping in specific areas
- Monitoring fishing zones
- Feeding data to AIS vessel tracking websites

## RELATED PRODUCTS

R400NX - Network AIS receiver with Ethernet Output
R500Ni - Intelligent Network AIS receiver with WIFI
G500Ni - Intelligent GPS receiver with WIFI

AV200 - Base Station Antenna with Ground Plane
AV300 - Fibreglass VHF Antenna
AV400 - Commercial Antenna for AIS
AG100 - GPS Antenna

# SPECIFICATIONS

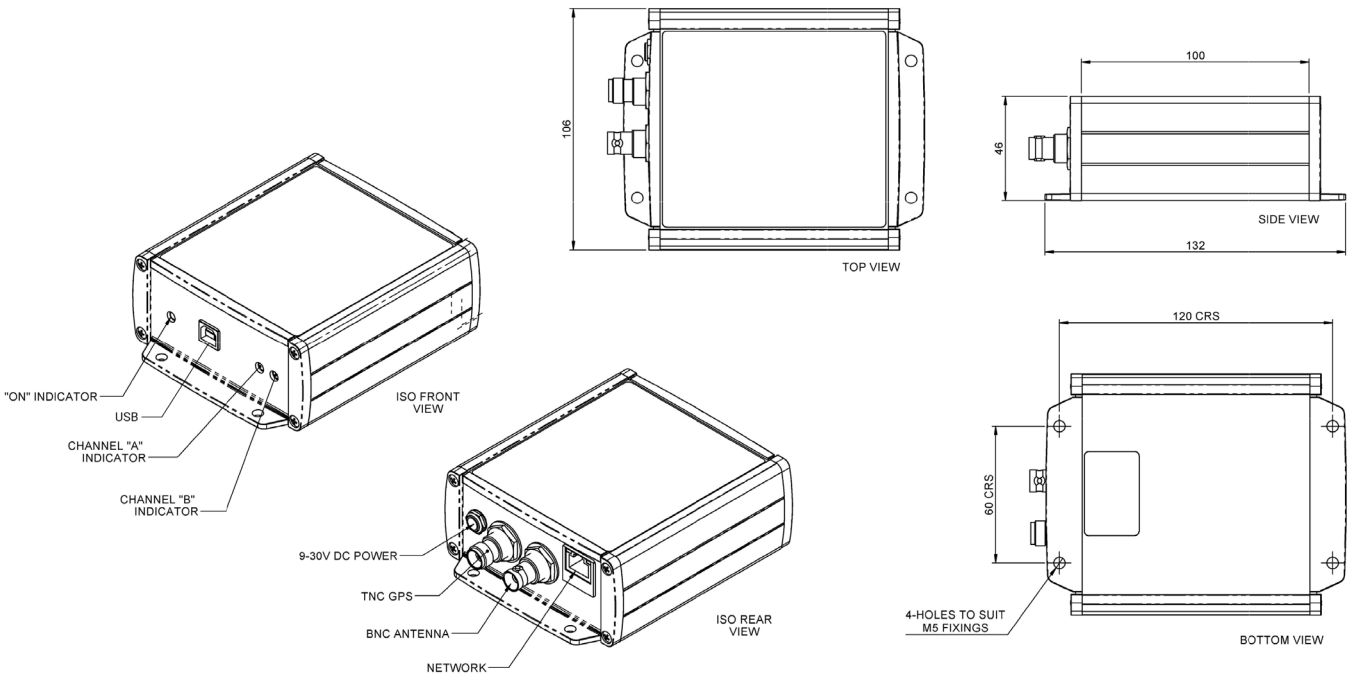
| PHYSICAL | |
|---|---|
| **Weight:** | 350g |
| **Dimensions:** | L 132 mm W 106 mm D 46 mm |
| **Mounting:** | To flat surface with case brackets |
| **Connections:** | RJ45 Ethernet 10 / 100 Base-T<br>BNC Coaxial to AIS VHF antenna<br>TNC Coaxial to GPS antenna<br>USB 2.0 Port: Type B (Cable Supplied) |
| **Construction:** | Aluminium, ABS End Caps |
| **Finish:** | Black Fine-texture Powder-coat, Grey ABS |

| ELECTRICAL | |
|---|---|
| **Power Supply:** | 12 V dc 3 W nominal (9-30 V dc) |
| **Antenna Impedance:** | 50 Ω |
| **Network Protocols:** | CLI Server, DHCP Client, DNS Client, HTTP(S) Server, Microsoft Azure Integration, Network Discovery, SMTP Client, SNMP, SNTP Client, TCP Client, TCP Server, TLS Client, TLS Server, UDP |
| **Network Connections:** | TCP Client: Connects to up to 3 servers.<br>UDP Server: Can accept up to 4 simultaneous connections. |
| **Data Output:** | NMEA 0183; 38,400 Baud; VDM output message |

| OPERATIONAL | |
|---|---|
| **Frequency** | Channel A 161.975 MHz<br>Channel B 162.025 MHz<br>GPS: 1575.42MHz |
| **Sensitivity:** | VHF: Up to -112 dBm<br>GPS: Up to -155dBm |
| **Display:** | 3 Indicator LEDs (Ch A; Ch B; ON) |
| **Data Types Received:** | Name of Vessel; MMSI Number; Position; Speed (SOG); Course (COG); Type of Vessel; Call Sign; Heading; Rate of Turn; Navigational Status; Vessel Dimensions; Destination |

| ENVIRONMENTAL | |
|---|---|
| **IP Rating:** | IP40 |
| **Operating temp:** | -15°C to +55°C |
| **Compass:** | Safe Distance 50 cm |

| ADDITIONAL | |
|---|---|
| **Supplied:** | R400NXG AIS Receiver |
| **Supplied:** | Universal 100-250 V ac to 12 V dc Power Supply |
| **Supplied:** | Antenna Connector Adaptor |
| **Supplied:** | 2m Ethernet cable |




**Copyright © 2025 Comar Systems Ltd. - R400NXG Datasheet v06r09**

**Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. PO304LY**

**Comar Systems Ltd. reserves the right to make changes to its products and specifications without prior notice.**