

# AIS Receiver (Costal Station)

## TECHNICAL DATASHEET



easyRX3S (A20024)



EXCELLENCE IN RADIO TECHNOLOGIES  
Safety • Navigation • Tracking

### Standards

|                 |                                  |
|-----------------|----------------------------------|
| AIS Standards   | IEC 62287-2:2017; ITU-R M.1371-5 |
| Environmental   | IEC 60945:2002 + Corr.1:2018     |
| GPS Performance | IEC 61108-1:2003                 |
| Product Safety  | IEC 62368-1; EN 301843-1:2004    |

### AIS Specification

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Receiver             | 2 Receiver (AIS1/AIS2)<br>DSC (AIS Channel Management) |
| Tx Frequency         | AIS 1: 161.975 MHz; AIS 2: 162.025 MHz                 |
| Option:              | Marine Band: 156,025MHz - 162,025MHz                   |
| Rx Sensitivity       | ≤-112dBm 25kHz (<20% PER)                              |
| Channel width / grid | 25kHz                                                  |
| Modulation           | GMSK (AIS, TX und RX) / FSK (DSC, RX only)             |
| Transmission rate    | 9600b/s / 1200b/s                                      |

### GNSS Receiver

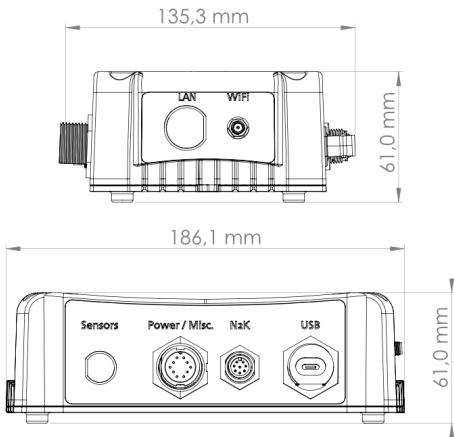
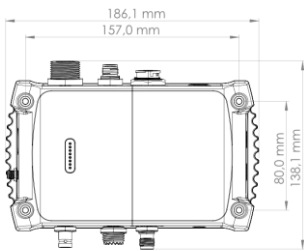
|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| Receiving Antenna  | Internal and external (BNC)                                             |
| Receiving Channels | 99 channels                                                             |
| Supported GNSS     | GPS, Galileo, Beidou, GLONASS<br>up to 3 concurrent GNSS constellations |

### Interface

|                        | A20011 (easyRX3) | A20010 (easyRX3-LAN) |
|------------------------|------------------|----------------------|
| VHF Antenna Connector  | SO239            | SO239                |
| VHF radio (Splitter)   | TNC              | TNC                  |
| GNSS Antenna Connector | BNC              | BNC                  |
| USB                    | USB-C            | USB-C                |
| NMEA0183               | 3 x IN/OUT       | 3 x IN/OUT           |
| NMEA2000               | +                | +                    |
| WiFi                   | +                | -                    |
| LAN                    | -                | RJ45                 |

### Dimensions/Drawings

|                     |                   |
|---------------------|-------------------|
| Weight              | 500 g             |
| Dimensions (LxWxH): | 186 x 138 x 61 mm |



### Variants

|        |              |
|--------|--------------|
| A20024 | easyRX3S     |
| A20025 | easyRX3S-LAN |

### Approval

|     |                         |
|-----|-------------------------|
| BSH | BSH/4542/001/4323246/18 |
| CE  |                         |

### Environmental

|                       |                  |
|-----------------------|------------------|
| Operating Temperature | -15°C to +55°C   |
| Storage Temperature   | -20 °C to +75 °C |
| Waterproof Rating     | IP 67            |
| Compass Safe Distance | min. 80 cm       |

### Power Supply

|                         |                          |
|-------------------------|--------------------------|
| Supply Voltage          | 12V or 24V               |
| Operating voltage range | 9,6 to 31,2V DC          |
| Power input             | 200mA (stand.) at 12V DC |
| NMEA2000 LEN Value      | 2                        |