**Assembly Instructions**

Mount the sensor facing upwards and in a level position. There are 2 mounting options with the supplied mount. The ZigBoat® GPS/Tracking can be assembled with any mount with 1’-14 standard thread. **SUGGESTION:** keep the supplied power cable at least 50 cm (1.64 ft) in length to make the assembly and disassembly phases easier.

**OPTION 1:**
- Pass the power cable through the central hole of the supplied mount
- Screw the sensor into the mount collar in the upper part of the mount (if already assembled, skip this step)
- Pass the power cable through the mount cable slot
- Place the collar and the cable slot cover are mounted in the mount
- Check that the collar and the cable slot cover are mounted in the mount

**OPTION 2:**
- Pass the power cable through the supplied mount side cable slot
- Remove the cable slot cover from the supplied mount
- Place the collar in the upper part of the mount if already assembled, skip this step
- Fix the mount with 3 screws (not supplied)
- Pass the power cable through the mount cable slot
- Screw the sensor into the mount

**NOTE:** For metal boats, the sensor must be installed outside.

**WARNING:** Do not mount the ZigBoat® GPS/Tracking in the immediate proximity of electronic devices, radio-frequency equipments and metal obstacles. Keep the separation distance from other antennas to avoid mutual interference.

- RADAR antenna do not mount within radar beam
- VHF antenna more than 1m
- HF antenna more than 1m
- Satellite voice communication do not mount within Inmarsat/Infranum beam

**Disassembly Instructions**

- Unscrew the GPS from the mount
- Unscrew the mount from the GPS antenna (NOTE: hold the GPS antenna with the hand)
- Disconnect the power cable from the power source
- Disconnect the power cable from the power source
- Unscrew the mount from the GPS antenna (NOTE: hold the GPS antenna with the hand)
- Unscrew the screws on the mount

**NOTE:** During this operation, be careful not to damage the power cable

- Disconnect the power cable from the power source

**OPTION 1:**
- Pull up the ZigBoat® GPS/Tracking till the end of the supplied power cable
- Remove the power cable from the power source
- Place the collar in the upper part of the mount
- Pull up the ZigBoat® GPS/Tracking till the end of the supplied power cable
- Attach the mount into the mount
- Check that the status LED located on the back is on and colored red.

**OPTION 2:**
- Power cable through the supplied mount central hole
- Unscrew the screws on the mount

**NOTE:**
- In case of weak signal, change the position of the GPS; check that there are no metal obstacles between the Gateway and the GPS sensor.
- Please check that the device is properly powered
- Please check the serial number has been entered correctly
- Please check the serial number has been entered correctly
- Please check the serial number has been entered correctly
- Please check the serial number has been entered correctly
- Please check that the device is properly powered

**Adding the sensor to the Gateway**

**NOTE:** Make sure the gateway is turned on and configured correctly.

- In case of weak signal, change the position of the GPS; check that there are no metal obstacles between the Gateway and the GPS sensor

**WARNING:** Make sure the FW version of the Gateway ZigBoat® is 1.2 or later. To check which version of firmware is currently installed on the ZigBoat® Gateway, click the Menu button on the top right (fig. 5) select Setting and then Firmware Update tab. The firmware currently installed is reported in the row “Firmware installed”.

**NOTE:** If the field “Sensor Name” is not filled up, the sensor is identified by default via its serial number

**WARNING:** it is possible to join only one GPS sensor for Gateway.

1. Open the ZigBoat® APP, select the Gateway in the ZB Gateways menu and wait a few seconds. Then, select the “menu” button on the top right (fig. 6). Select “Device list” (fig. 7). Add the sensor by:

**OPTION 1:**
- Power cable through the supplied mount side cable slot
- Fix the mount with 3 screws (not supplied)

**OPTION 2:**
- Pass the power cable through the supplied mount side cable slot
- Check that the collar and the cable slot cover are mounted in the mount

2. You can change the device name by selecting “Sensor Name” entering the serial number which is on the sensor’s label and in this manual (fig. 8). Then, press the “Add Device” button.

3. The GPS sensor will now start searching for the ZigBoat™ network to join.

4. When the status LED is green, the sensor has successfully joined the ZigBoat™ network

5. To check the correct configuration, select the overview tab of the ZigBoat™ App (fig. 9).

**NOTE:**
- GPS Glomex
- 44.424°12.165°
- Mar 13, 12.52.44
- GMT
Fig. 7

NOTE: The map is not available offline. It can only be viewed when connected to the Wi-Fi network generated by the ZigBoat connected to the Internet. If your smartphone is connected directly to the Gateway and the mobile device (smartphone, tablet) are enabled, it is possible to set the target at the center of the map (fig. 13). The Gateway exchanges ZigBee® telegrams with the Gateway. The Gateway sends ZigBee® telegrams to the Gateway (fig. 13).

Hybrid map and Google map mode are available (fig. 7).

Here you can check (fig. 8):
- GPS unit + 72mm (2.3") mount
- Power supply: 12/24 V DC
- Power consumption: Max 0.8 W; Typical 0.2 W
- Connectivity IEEE 802.15.4 / ZigBee® 1.0/1.1
- Status connection (Connected / Disconnected)
- Status LED
- Weather
- Date/Time
- Latitude
- Longitude
- Speed
- Date/Time

Weather
Shows the current daily weather forecasts and for the next 7 days (fig. 11).

Technical specifications
- Dimensions: 200mm (4") Ø / Height: 58mm (2.3") GPS unit + 72mm (2.3") mount
- Weight: 110g (4 oz)
- GPS Rx-frequency: L1 (1575.42 MHz)
- Power supply: 12/24 V DC
- Power consumption: Max 0.8 W; Typical 0.2 W
- Connectivity IEEE 802.15.4 / ZigBee® 1.0/1.1
- Output power: up to 20 dBm
- GPS: up to 3 GNSS (GPS, Galileo, GLONASS, BeiDou)
- Dimensions: 200mm (4") Ø / Height: 58mm (2.3") GPS unit + 72mm (2.3") mount
- Weight: 110g (4 oz)
- GPS Rx-frequency: L1 (1575.42 MHz)
- Power supply: 12/24 V DC
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- Power consumption: Max 0.8 W; Typical 0.2 W
- Connectivity IEEE 802.15.4 / ZigBee® 1.0/1.1
- Output power: up to 20 dBm
- GPS: up to 3 GNSS (GPS, Galileo, GLONASS, BeiDou)

Simplified EU Declaration of Conformity
The manufacturer Glomex declares that the radio equipment type ZigBee® GPS is in compliance with European Directive 2014/53/EU. The full text of the EU Declaration is available at the following internet address http://www.glomex.it/leisure/eng/certifications.php

Conformity

This device complies with FCC Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Other certifications
Distributed by Glomex Srl
via Fantina 10/a/G
48124 Ravenna
Italy

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Warranty
Glomex guarantees the ZigBoat® SB110 and the GPS Sensor SB110 against manufacturing defects for a period of 2 years from date of purchase. Warranty can be in the form of repair or replacement of the unit if manufacturing defects have been found and are confirmed by Glomex or one of its affiliates. In order to validate warranty, either the original sales receipt or a copy must be provided at the time warranty is requested. Before returning any items for warranty, please contact the Glomex Customer Service department to receive a RMA which should be completed and sent to the unit to the following address:

GLOMEX S.r.l.
Via Fantina 10/a/G
48124 Ravenna (Italy)

All items must be complete with all the accessories supplied at the time of purchase for shipment. The serial number must neither be erased nor made illegible, otherwise the warranty will be voided.

Instruction manuals available online:
Consultez le manuel d’utilisation en français sur: http://www.glomex.it/leisure/eng/certifications.php
Consulte el manual de usuario en español en:
Consulta il manuale utente in italiano su:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Fig. 8

Steps for resetting
1. Remove the plastic cap (fig. 12)
2. Check the sensor is powered
3. Press the reset button until the status LED blinks red
4. Release the button
5. Re-insert the plastic cap