



weBoat[®] Plus 5G

**DUAL SIM 5G/4G/Wi-Fi INTEGRATED
COASTAL INTERNET SYSTEM**

USER AND INSTALLATION MANUAL

July 2023 - Specification may change without notice

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LABEL

TECHNICAL SPECIFICATIONS

Antenna dimensions (diam.x H): 250 x 300 mm / 10x12"

Antenna weight: 1 kg / 2,2 lb

DUAL MICRO SIM system

Automatic switch Wi-Fi registered networks to 5G/4G

Automatic APN

SMS management function

V-SAT/SAT internet autoswitch mode

Switching cellular data to external Wi-Fi

Encrypted real-time peer-to-peer connection for remote set-up and service

5G/4G backup WAN function

5G: up to 2.5Gbps in download

LTE CAT16 DWN: up to 1Gbps in download

DC- HSPA+ up to 42 Mbps in download

Power Supply: 9/30 Vdc

Average Consumption: 450mA (max. 1A)

GENERAL FEATURES

IT1205PLUS - WORLDWIDE (escl. Cina)

Operating temperature: from -40°C to 75°C

5G NR: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n66/n71/n77/
n78/n79 - n48 in process

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12(B17)/B13/B14/B18/B19/B20/B25
/B26/B28/B29/B30/B32/ B66/B71

LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48 LAA: B46 (supports only 2 × 2
MIMO)

WCDMA: B1/B2/B3/B4/B5/B6/B8/B19

DATA

Complies with IEEE 802.11b/g/n, wireless

2 Ethernet ports (1 WAN + 1 LAN)

4 Diversity high performance antennas

2 High gain Wi-Fi antennas

Android and iOS App for an easy control

Easy installation require only power supply connection 9/30V

Anti-yellowing U.V. resistant dome

SIMPLIFIED EU DECLARATION OF CONFORMITY

The manufacturer Glomex declares that the radio equipment type weBBoat® Plus 5G 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](http://www.glomex.it/leisure/eng/certifications.php)

1. FOREWORD

Thank you for purchasing the Glomex weBBoat® Plus 5G. We are sure that you will enjoy the quality and reliability of this device for many years to come.

This user manual should be read thoroughly before attempting to install the device to ensure trouble-free operation. If you are unsure in any aspect of this installation, please contact a qualified technician or Glomex Customer Service.

1.1 IDENTIFICATION WEBBOAT® PLUS 5G

For any communication with Glomex or its service center, please have the model and serial number of the weBBoat® Plus 5G handy which can be found on the outside packaging, on the second page of its quick reference guide, or inside the lower radome of weBBoat®.

1.2 WARRANTY

Glomex guarantees the weBBoat® Plus 5G (IT1205PLUS) 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 with the unit to the following address:

GLOMEX S.p.A.
Via Faentina 165/G
48124 Ravenna (Italy)

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.

WARNING

Retain this user manual and quick reference guide which contains weBBoat® Plus 5G serial number for warranty purposes.

The warranty does not apply in case of damage due to carelessness, use or installation not compliant with the instructions given, tampering, product or serial number modification, damage due to accidental causes or to the buyer's negligence. Moreover, warranty does not apply in case of damage consequent to connections of the equipment to different voltages than those indicated or to sudden voltage variations of the network the equipment is connected to, as well as in case of damage caused by leakage, fire, inductive/electrostatic discharges or discharges due to lightning, use of cables different to those provided, overvoltages or other phenomena not related to the equipment.

Finally, the warranty does not apply to problems caused by the telephone operator and at a Wi-Fi hotspot.

The parts subject to wear consequent to use such as connection cables, connectors, external parts and plastic supports are covered by a one-year period warranty.

The following are not covered by warranty: periodic monitoring, software updates, settings of the product, maintenance.

After the expiration of the warranty period, the technical support activities will be carried out charging the customer for the replaced parts, the labour costs and freight charges, according to current rates.

The equipment will be replaced or repaired under warranty only and exclusively on Glomex quality department's approval.

Should any dispute rise, the place of jurisdiction will exclusively be Ravenna (Italy).

The warranty is provided by:

**GLOMEX S.p.A.
Via Faentina 165/G
48124 Ravenna (Italy)**

1.3 GENERAL SAFETY RULES

Carefully read the instructions and follow the recommended precautions to avoid potential hazards and safeguard your health and safety, before carrying out any installation and maintenance.

This manual contains the following indications:

WARNING

This advice warns against potential damage to the equipment which could involve the operator's safety.

Failure to comply with the instructions preceded by the above-mentioned keywords (WARNING) can cause serious accidents or even the death of the persons involved. Moreover, in this Manual, some instructions are given with text in *italics*, preceded

by
the word NOTE.

The information and specifications given in this manual are based upon the information available at the moment it is written.

In case of doubts, do not hesitate to contact GLOMEX S.p.A. at the following email:

service@glomex.it

1.4 ENVIRONMENT

Do not throw the appliance away with the normal household waste at the end of its life, but instead, dispose of at a recycling station. By doing this, you will help preserve the environment



2. PRODUCT DESCRIPTION

weBBoat® Plus 5G is the evolution of award winning **COASTAL INTERNET** 4G/3G/Wi-Fi DUAL SIM integrated system to surf the web - weBBoat® 4G Plus EVO. The system ensures stable and high speed connections **up to more than 20 miles from the coast.**

weBBoat® Plus 5G is equipped with four 5G/4G/3G diversity antennas, two diversity Wi-Fi antennas, and a super-fast 5G/4G/3G/Wi-Fi router that creates a hot spot on the vessel. Up to **32 different devices** can be used simultaneously without any degradation to the signal or performance. The units built-in advanced switching software allows the user to save money on costly roaming and overage charges by automatically switching to Wi-Fi when available.

weBBoat® Plus 5G is a true **Plug & Play** device that requires minimal setup and only one power lead for the antenna which operates from 9-30 Vdc. The Dual SIM architecture allows the user to have more choices for operator (i.e. different carriers for coverage, extra data if one card runs out, etc).

weBBoat® Plus 5G has additional features that increase the performance and usefulness of your Coastal Internet integrated system, such as:

Automatic APN

SMS management/reading/sending to monitor internet consumption

Automatic switching mode with onboard satellite internet devices/V-SAT

Encrypted real-time peer-to-peer connection for remote set-up and service

weBBoat® Plus 5G is provided with:

- Four high gain and wide bandwidth antennas to transmit and receive in 5G and 4G in a Diversity configuration;
- Two Wi-Fi antennas to automatically receive the Wi-Fi signal from the local Wi-Fi network and switch between 5G/4G and Wi-Fi by default to save on connection costs;
- 5G-4G/LTE, 3G/UMTS, LAN and Wi-Fi router to redistribute the Internet signal to a maximum of 32 devices (PCs, smartphones, tablets, smart TVs, etc.) present on the boat through the protected and secure weBBoat® Plus 5G Wi-Fi network;
- External slot for two Micro-SIM cards with locking system.

NOTE: The distance from the coast within which the weBBoat® Plus 5G works depends on the 5G/4G/3G signal coverage from the transmitter of your cellular carrier, the correct installation of the weBBoat®, and on the height of the weBBoat® installation.

code: IT1205PLUS (WORLDWIDE)

3. INSTALLATION

WARNING

We recommend not to install the antenna at the same level as the radar, as the radar's energy could damage the antenna. The antenna should be positioned at a distance of at least 1.5m (5') from the other transmitting antennas (VHF, radar)

Installation on sailboat

It is advisable to place the weBBoat® Plus 5G to a maximum height of 8/10m (26/33') on the spreader with the Glomex mount code ITM001 (not supplied).

The weBBoat® Plus 5G must be fixed to the mount by tightening the screw on the bottom of weBBoat® Plus 5G with a screwdriver (Fig. 2).

IMPORTANT: Do not install the weBBoat® Plus 5G at the masthead.

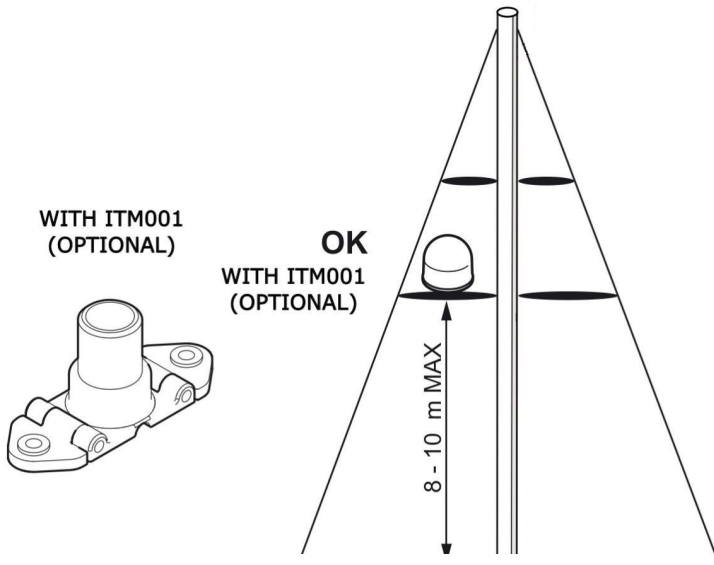


Fig. 1

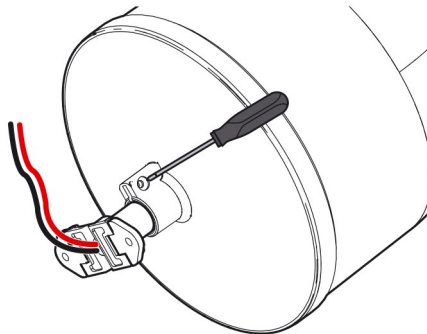


Fig. 2

Typical installation on fiberglass midsize power boat

OK

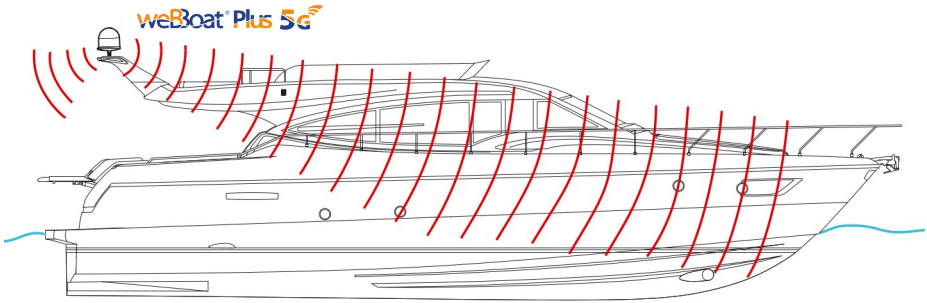


Fig. 3

Typical installation on metal power boat or big yachts

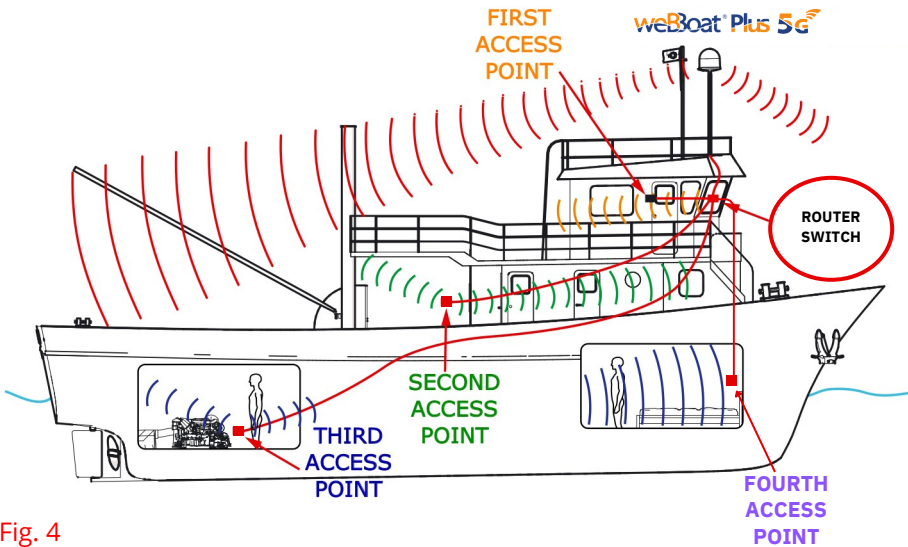


Fig. 4

The image is an example only. The user may configure the network as required. Using 4 access points at the most is recommended.

Warning

The weBBoat® Plus 5G must be fixed to a mount by tightening the screw in the weBBoat® Plus 5G base by means of a screwdriver (Fig. 3).

The installation of the weBBoat® Plus 5G near or above a flat metal surface may result in significant reduction of the Wi-Fi and 3G/4G signal strength.

Do not mount the weBBoat® Plus 5G near metal obstructions that may interfere with the Wi-Fi signal.

When using the weBBoat® Plus 5G on metal vessels, Wi-Fi signal can be very weak. For this reason, it is necessary to use an access point (maximum of 16 APs can be used) inside the vessel. These can be connected to an external network hub (optional) which then connects to the router inside the weBBoat® Plus 5G radome via an Ethernet cable (optional) using the LAN ports. WLAN port can be used to connect weBBoat® Plus 5G to the onboard satellite internet device/V-SAT.

Electric connections

For proper functioning of weBBoat® Plus 5G, simply connect the antenna power cable to a 9/30 Vdc source following the guidelines below.

Connect the red (positive) and the black wire (negative) coming out from the base of weBBoat® Plus 5G to the battery through a twin lead power cable. The connection can be made by soldering or with a crimp sleeve. It is advisable to have this procedure carried out by a technician.

The power line which connects the two wires coming out from the base of weBBoat® Plus 5G must have cables with a cross section of 1.5 mm² by a length up to 10m, and 2.5 mm² for longer lengths. Minimum power supply voltage: 9 Vdc.

This unit is not protected against excessive current or short circuit. It is recommended to use a 1amp fuse for protection purposes during installation.

NOTE: To prevent boat battery drain, we recommend attaching the weBBoat power supply to a fuse panel that can be turned off when the unit is not in use.

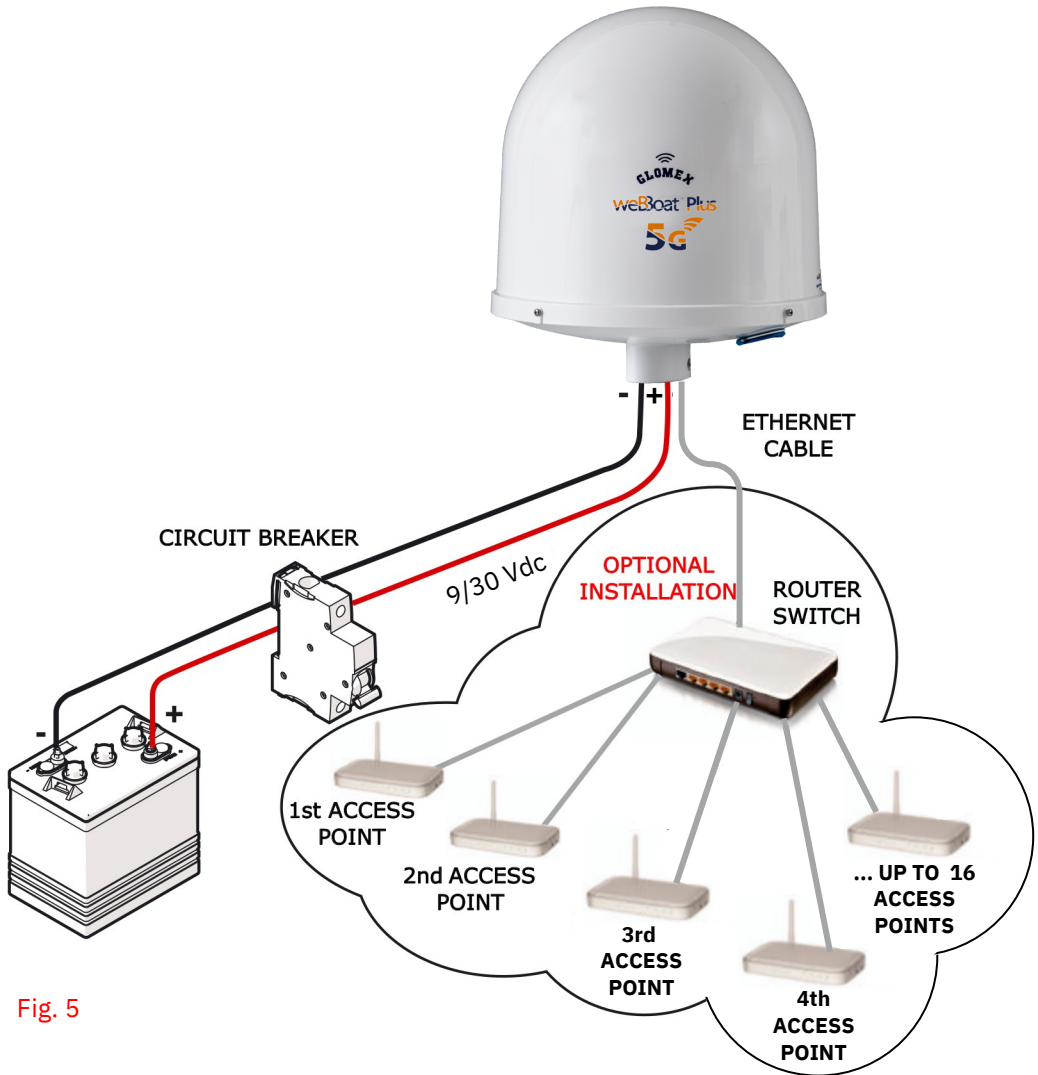


Fig. 5

NOTE: In order to receive the signal from the weBBoat® Plus 5G inside metal vessels, up to a maximum of 16 access points (according to your needs) must be placed inside the boat, which must be linked with a switch to the router inside the weBBoat® Plus 5G via an Ethernet network cable.

3.1 INSERTING THE SIM CARDS

NOTE: Insert the Micro-SIM card(s) with weBBoat® Plus 5G off or on. Insert the two Micro-SIM cards in the dedicated external slots with the cut edge facing down and the contact facing outwards, as shown in Fig. 6.

NOTE: If you use weBBoat® Plus 5G with a single Micro-SIM card, it must be inserted in slot 1.

IMPORTANT: If the SIM card has a PIN, we recommend to remove the PIN code request before inserting the SIM card into weBBoat® Plus 5G. This can be done via a mobile phone and varies according to the individual mobile phones. Please check the steps in the instructions of your mobile phone, or contact your carrier.

BOTTOM OF RADOME



Fig. 6

4. DOWNLOAD THE APP FOR weBBoat® Plus 5G

Download and install the weBBoat APP on your device from the APP store (for iOS devices) or from Google Play (for Android devices). Scan the QR code below (Fig. 7).

NOTE: This user manual refers to the iOS version. The screens for the Android will differ slightly.



Fig. 7

IMPORTANT: The app instructions should be used only by the weBBoat® Plus 5G administrator (using only one device). After following all the steps in the following instructions, all the other internet devices (up to 31) must simply select the Wi-Fi network of the weBBoat and enter the password, if required.

Connect your mobile device (e.g. smartphone) to the weBBoat® Plus 5G Wi-Fi network (Fig. 8). The default Wi-Fi network name (SSID) is weBBoat_XXXX (where XXXX is a unique string for each weBBoat® Plus 5G) and it's not password protected .

NOTE: It is advised after initial setup to create a password (minimum 8 characters) to secure the weBBoat® Plus 5G network. (see paragraph 6).

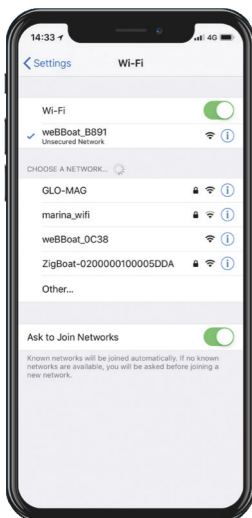


Fig. 8

5. FIRST SETUP

Open the weBBoat App. Tap the “+” button in the top right corner (Fig. 9). Tap the QR Code button. Scan the QR Code on the quick guide and press “Save” (Fig. 10). After scanning the QR code, you can rename the device if desired.

Alternatively, you can connect the weBBoat[®] Plus 5G by tapping the “+” button on the top (Fig. 9) and the string associated with the QR Code located on the label (Fig. 10).

NOTE: The QR code and the Serial Number can be found on the bottom-right of page 2 of the quick reference guide or inside the lower radome of weBBoat[®].



Fig. 9

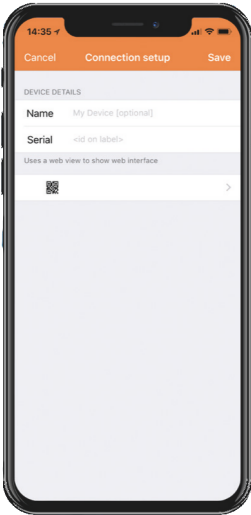


Fig. 10

Select the weBBoat® Plus 5G from the list (Fig. 11). Type the administrator password: **admin** (Fig. 12). Then, tap Login button.

NOTE FOR IOS USERS: for quick access, tap the star icon to select weBBoat device in the list.



Fig. 11



Fig. 12

5.1 SIM CARD CARRIER APN

In the “Setup Wizard”, select the language (English, Italian, French, Spanish and German). English is the default setting (Fig. 13). To unblock the SIM card, enter the PIN code (if necessary). The Setup Wizard configures SIM1. If the user needs to configure SIM 2 it is possible to select SIM2 from the Active SIM section of the Control Panel (Fig. 18) and then configure it in the Mobile section of the Advanced Settings. By default, the “Auto APN” option, which allows automatic connection, is selected (Fig. 13). To enter an APN manually, deselect the “Auto APN” option and a drop-down menu will be shown with a list of possible APNs. By selecting the value “none” from this list, it will be possible to manually enter a custom APN. (Fig 14).

NOTE: Check the correct APN with the Internet Service Provider (ISP) of the SIM card. If the APN you need is not included in the default list, please contact Glomex at webboat@glomex.it.

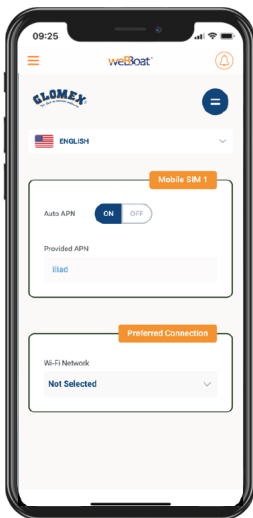


Fig. 13

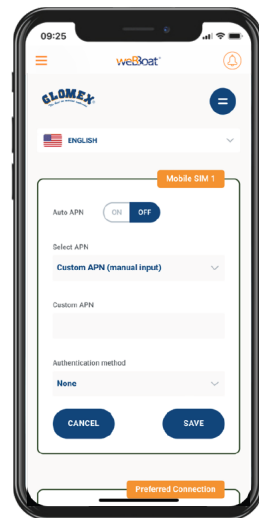


Fig. 14

5.2 AUTOSWITCH AND PRIORITY FUNCTION

In “Setup Wizard”, it is possible to connect to an external Wi-Fi just selecting from a dropdown list. In this mode weBBoat® Plus 5G is able to switch automatically from Wi-Fi to 5G/4G/3G if the external Wi-Fi Hotspot signal (i.e. marina Wi-Fi) is lost. While using the 5G/4G/3G connection, if the same external Wi-Fi Hotspot (i.e. marina Wi-Fi) is detected again, weBBoat® Plus 5G will switch the connection back from 5G/4G/3G to Wi-Fi automatically. To enable this option, tap “Enable” button (Fig. 13). Tap Wi-Fi Scan button (Fig. 15), select one of the available external Wi-Fi networks. Tap OK button to join the network and then enter the password (if required). Tap “Save” button to proceed (Fig.17).

WARNING:

During the Autoswitch configuration, the connection between the mobile device and weBBoat® Plus 5G will be lost. Please check the connection between the devices and reconnect before proceeding if needed. To skip the Setup Wizard, tap “Skip” button (not recommended).

IMPORTANT: Tap “Save” button in “Setup Wizard” to save all configuration settings (Fig. 15). In the “Advanced Settings” section there is a “Preferred Connection” section (Fig. 16) in which it is possible to customize the operation of the “Autoswitch” mode by redefining the priority of the various internet sources: **Wi-Fi** (Default Priority 1), **Mobile** (Default Priority 2) and **SAT** (Default Priority 3). You can enable the **Priority function** to choose which connection type is used and in which assigned priority order. Typically, the highest priority links will be the cheaper high bandwidth connections (marina Wi-Fi, then Cellular) with the lowest priority link being the more expensive satellite internet connection. With weBBoat® Plus 5G you can choose also to enable only one internet connection methods, for example the marina Wi-Fi to reduce the cellular or satellite internet data consumption and costs (see paragraph 5.3).

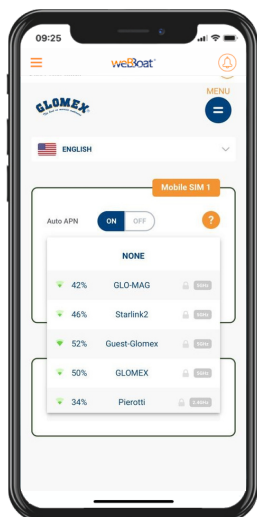


Fig. 15

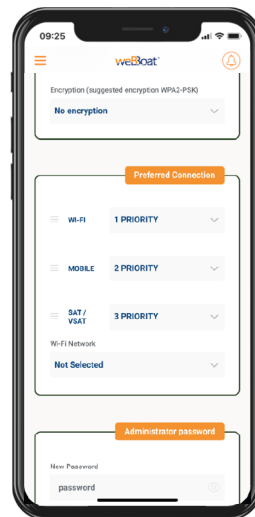


Fig. 16

5.3 CONTROL PANEL

After tapping “Save” button, the Control Panel will be shown automatically. This section includes all information related to the signal, the active SIM card and the APN in use (Fig. 18). If the Autoswitch function is not enabled, enable it by tapping “Autoswitch” button (Fig. 18).

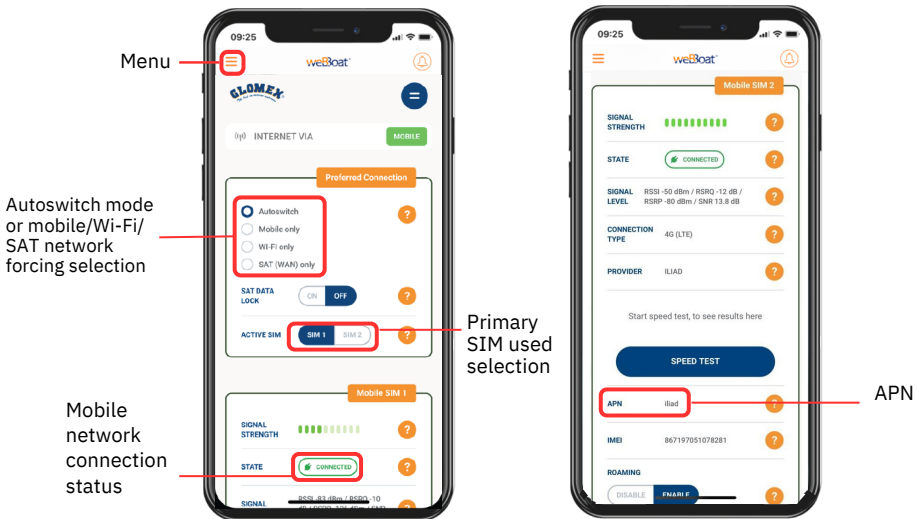


Fig. 18

Fig. 19

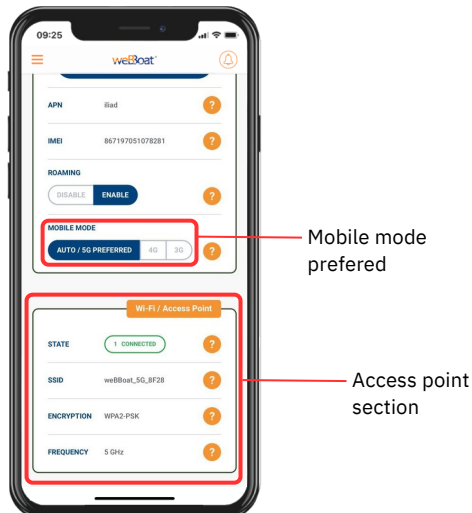


Fig. 20

Mobile network connection status: displays the weBBoat® Plus 5G status of connection with your mobile carrier network.

APN: weBBoat® Plus 5G automatically selects your SIM card carrier APN. However, you can manually enter an APN (see paragraph 5.1).

Primary SIM used selection: To select the SIM to use for surfing the web through the mobile network.

Autoswitch mode or mobile/Wi-Fi/SAT network forcing selection: to select the autoswitch mode (automatic switching between mobile network, Wi-Fi and SAT network, if present and properly configured) or to force the mobile connection only, the 5G mobile only, the 4G mobile only, the 3G mobile only, the Wi-Fi only or the SAT connection only. If autoswitch is selected, the Wi-Fi networks available will be scanned.

In the “Control Panel”, choose one of the following **Mobile modes** (Fig. 20):

Auto: weBBoat® Plus 5G is connected to the network that provides the best Internet connection.

Auto/5G preferred: weBBoat® Plus 5G is connected to the 5G network if available.

4G only: weBBoat® Plus 5G is connected to the 4G network only.

3G only: weBBoat® Plus 5G is connected to the 3G network only.

You can select the active SIM by clicking on the **SIM selector** (Fig. 18). The SIM change operation take about 15 seconds to be completed.

Other ways of managing Mobile/Wi-Fi operations from the Control Panel are:

Autoswitch: as described on paragraph 5.2

Mobile Only: weBBoat® Plus 5G is forced to work in Mobile regardless of other available Internet sources.

WiFi Only: weBBoat® Plus 5G is forced to work in Wi-Fi regardless of other available Internet sources.

SAT Only: weBBoat® Plus 5G is forced to work using the SAT input regardless of other available Internet sources.

NOTE: Please note that other Wi-Fi networks nearby could affect the speed performance of the weBBoat® Plus 5G.

6. CHANGE SSID AND PASSWORD

To customize the name of the Wi-Fi network generated by weBBoat® Plus 5G (SSID) and its password, tap the Menu button (Fig. 21) and select “Advanced settings”. Go to “Access point” section. Change the SSID in the related field and select the encryption type. Type the password and tap "Save" button (Fig. 20).

SUGGESTION: Choose WPA2-PSK encryption for better security.

NOTE: Do not use spaces or special characters in the name of the Wi-Fi network (SSID) and password.

After changing the name of the Wi-Fi network (SSID) and the password, weBBoat® Plus 5G will be rebooted automatically. Close the weBBoat App, reconnect your mobile device (e.g. smartphone) to the new Wi-Fi network of the weBBoat® Plus 5G and then reopen the App.



Fig. 21

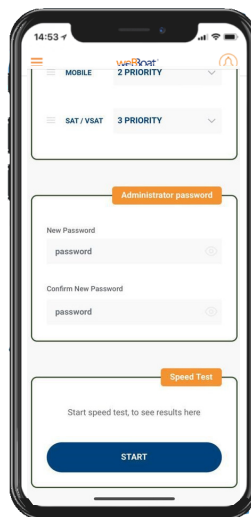


Fig. 22

7. CHANGE ADMINISTRATOR PASSWORD

To change the Administrator password, tap the "Menu" button (Fig. 21) and tap "Advanced settings". In the "Administrator Password" section (Fig. 22) enter the new administrator password in both fields and tap "Save" button.

IMPORTANT: Keep the new password in a safe place and do not forget it. If the administrator password is lost, you must restore the device to the default factory settings (see paragraph 8)

8. RESTORE weBBoat® Plus 5G

To restore weBBoat® Plus 5G to the default factory settings, push and hold the "reset" button, placed in the front of the router (Fig. 23), for at least 5 seconds. The "reset" button can be released after 5 seconds. When the weBBoat® Plus 5G reboots, it will reset all custom changes to factory defaults. Close the weBBoat App, reconnect your mobile device (e.g. smartphone) to the weBBoat® Plus 5G Wi-Fi network and then reopen the App.

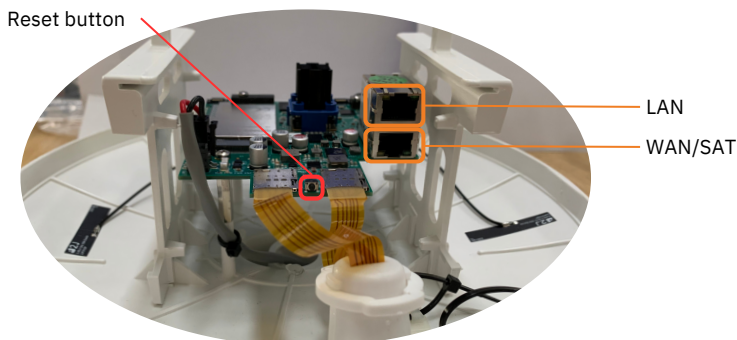


Fig. 23

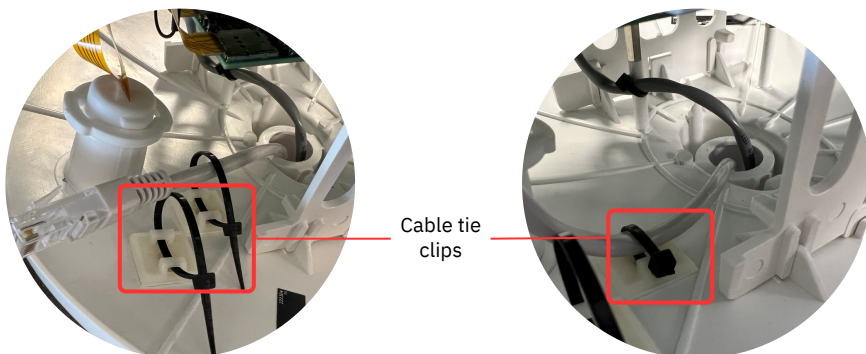


Fig. 24.1

Fig. 24.2

It's possible to use two cable tie clips to block the ethernet cables (Fig .24.1 and 24.2)

9. UPDATING FIRMWARE AND APN DATABASE

When firmware and Auto APN database updates are available, they will appear as an Upgrade Button in the “System Updates” menu (Fig. 25). Tap “Upgrade” button to perform the upgrade and wait for a few minutes.

IMPORTANT: When the Firmware upgrade is completed, weBBoat® Plus 5G will reboot automatically. Close the weBBoat App, reconnect your mobile device (e.g. smartphone) to the weBBoat® Plus 5G Wi-Fi network and then reopen the App.

WARNING:
**PLEASE DO NOT POWER OFF THE weBBoat® Plus 5G
DURING THE INSTALLATION**

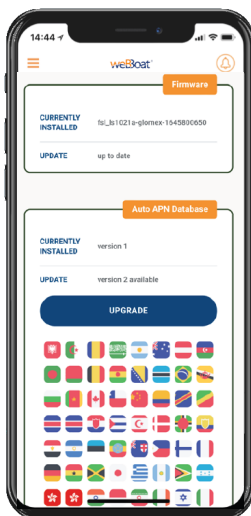


Fig. 25

10. SMS MANAGEMENT

The SMS section on the menu (Fig. 21) shows a number that indicates the number of received and unread SMS on the active SIM in the weBBoat® Plus 5G. By clicking on SMS you access the SMS section where you can read the SMS, monitor your credit and, if the SIM is enabled, send messages (Fig. 26).

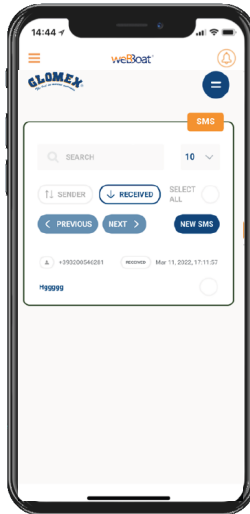


Fig. 26