

TECHNICAL SPECIFICATIONS

Antenna dimensions (H x Ø): 200 x 140mm (8 x 5.5")

Antenna weight: 1 kg (2.2 lb)

DC Power Supply: 9/30 V DC

Power consumption: < 5W

Automatic switch option from Wi-Fi registered networks to 4G

Wi-Fi connection speed up to 72 Mbps in download

LAN connection speed up to 100 Mbps in download

4G backup WAN function

2 Ethernet ports

2 Diversity high performance LTE antennas

1 Wi-Fi antenna

UV waterproof resistant dome

Peer-to-Peer (P2P) connection between unit and mobile device

Android and IOS App for an easy control

Automatic Firmware upgrade

Innovative updating system for APN database

ETHERNET

IEEE 802.3, IEEE 802.3u standards

1 x LAN 10/100Mbps Ethernet port

1 x WAN 10/100Mbps Ethernet port

WI-FI

IEEE 802.11b/g/n WiFi standards

AP and STA mode

Frequency 2.4 GHz

General Features - EU version

LTE

LTE FDD: B1/B3/B5/B7/B8/B20

LTE TDD: B38/B40/B41

LTE CAT4 up to 150 Mbps DL

LTE CAT4 up to 50 Mbps UL

3G

UMTS/DC-HSPA+ 850/900/2100 MHz

DC-HSPA+ mode: max 42Mbps (DL), max 5.76Mbps (UL)

UMTS mode: 384 kbps (DL), 384 kbps (UL)

TD-SCDMA: max 4.2 Mbps (DL) max 2.2 Mbps (UL)

2G

GSM/GPRS/EDGE 900/1800 MHz

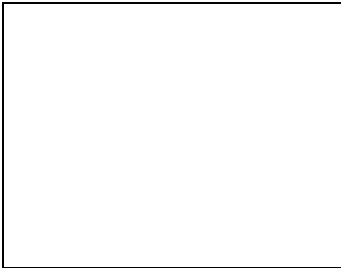


SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Glomex declares that the radio equipment type weBBoat 4G Lite (IT1104) is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.glomex.it/leisure/eng/certifications.php>



GLOMEX[®]
The best in marine antennas



weBoat[®] **4G Lite**

4G/Wi-Fi

INTEGRATED COASTAL INTERNET SYSTEM

USER AND INSTALLATION MANUAL

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1. FOREWORD

1.1 INTRODUCTION

Thank you for purchasing the Glomex weBBoat® 4G Lite. 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.

1.2 IDENTIFICATION WEBBOAT® 4G Lite

For any communication with Glomex or its service center, please have the model and product serial number of the weBBoat® 4G Lite handy, which can be found, on the outside packaging, on the quick guide, on page 2 of this manual and on the router inside the weBBoat® housing.

1.3 WARRANTY

Glomex guarantees the weBBoat® 4G Lite (IT1104) 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 (Return merchandise authorization), which should be completed and sent with the unit to the following address:

GLOMEX S.r.l.
Via Faentina 165/G
48124 Ravenna (Italy)

Complete with all the accessories supplied at the time of purchase for shipment.

The product serial number must neither be erased nor made illegible; otherwise the warranty will be voided.

WARNING

Retain this user manual and installation guide, which contains the 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, overvoltage 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 guarantee is not applicable in case passwords are lost. Keep them in a safe place.

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 and maintenance.

After the expiration of the warranty period, the technical support activities will be carried out charging the customer for the replaced parts, the labor 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.r.l.
Via Faentina 165/G
48124 Ravenna (Italy)

1.4 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 symbol 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 of the persons involved. 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.r.l. at the following email: service@glomex.it

1.5 ENVIRONMENT

Do not throw the appliance away with the general 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.



Fig. 1

GL00024

2. PRODUCT DESCRIPTION

2.1 WHAT IS WEBBOAT® 4G LITE

weBBoat® 4G Lite is the 3G/4G/Wi-Fi SIM integrated system designed by Glomex to surf the Internet at high speed, ensuring stable and fast connections up to 15 miles away from the coast.

weBBoat® 4G Lite has 2 4G diversity antennas that receive the Internet signal and redirects it inside the boat or RV vehicle through a Wi-Fi antenna, thereby increasing the signal strength. It generates a secure and protected Wi-Fi network that can be used simultaneously by up to 24 different connected devices.

Also, if a known Wi-Fi network is present and available (such as the local marina's network), weBBoat® 4G Lite will automatically connect to it to limit the cost of the Internet connection.

weBBoat® 4G Lite is a PLUG & PLAY product as the 4G/3G/GSM module is integrated, for its operation, it only requires a 12V to 24V power cable (12V DC or 24V DC) and one Mini-SIM card for surfing the Internet; all this makes the system particularly easy to install.

weBBoat® 4G Lite is also easy to use, due to the new weBBoat® 4G Lite free app available for iOS and Android devices.

NOTE: *The distance from the coast within which the weBBoat® 4G Lite works depends on the 3G/4G signal coverage from the mobile phone mast of your cellular carrier, the correct installation of the weBBoat® 4G Lite and on the height of the weBBoat® 4G Lite antenna.*

2.2 WHAT IS NEW ON WEBBOAT® 4G LITE?

- Peer-to-peer connection (P2P)
- INNOVATIVE updating system for APN database and firmware
- Free and automatic firmware updates with the possibility to keep the custom settings
- Periodic and free app updates

weBBoat® 4G Lite is provided with:

- 2 high-gain and wideband antennas to transmit and receive in 3G and 4G in a Diversity configuration
- A Wi-Fi antenna to share the Internet connection to a maximum of 24 devices present on board. It can also receive the Wi-Fi signal of a nearby Wi-Fi network (such as the local marina's network), thus limiting the costs of surfing the Internet.
- Automatic 4G/Wi-Fi switching with default to Wi-Fi to save on connection charges;
- A 3G/UMTS, 4G/LTE, LAN and Wi-Fi router to redistribute the Internet

weBoat® 4G Lite

- signal up to 24 devices (PCs, smartphones and tablets) present on the boat through the protected and secure weBBoat® 4G Lite Wi-Fi network;
- 2 mounting bases, one for installation on the boat and the other one for RV vehicle.

Simply insert a Mini-SIM card (not supplied) into the SIM card slot and you connect all your Internet devices (smartphone, tablet, PC, etc.) to a 3G/4G network or the local Wi-Fi hotspot.

The small internal router will automatically switch from 3G/4G to Wi-Fi and back to maintain Internet connection.

weBBoat® 4G Lite can manage international roaming.

To avoid excessive costs, we recommend using the mini-SIM card of the country in which you are navigating*.



Fig. 2

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* **NOTE:** For correct 4G/3G operations, please verify that your service provider is operating on the supported LTE bands listed on page 1 of this manual.

3. CONTENTS

The components contained in the packaging are the following:

- weBBoat® 4G Lite (Fig. 3)
- Quick Reference Guide (Fig. 4)
- Installation and Operating Manual (Fig. 5)
- Mounting base for RV vehicles (Fig. 6)
- n.3 screws for RV mounting base



Fig. 3

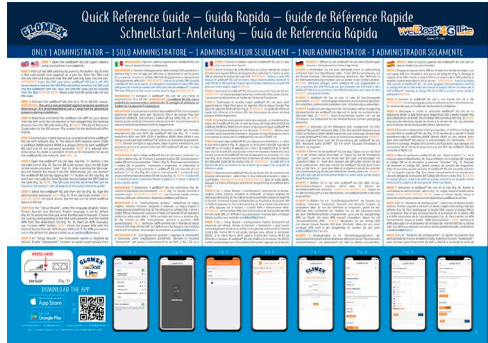


Fig. 4



Fig. 5

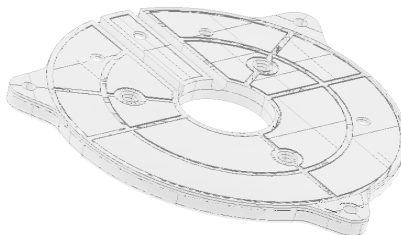


Fig. 6

3.1 INSTALLATION

3.1.1 Installation on Sailboats

It is advisable to place the weBBoat® 4G Lite to a maximum height of 8/10 meters on the spreader with the support Glomex code ITM002 (not supplied) (Fig. 8) or with any mount with 1'-14 standard thread.

IMPORTANT: Do not install the weBBoat® 4G Lite on top of the masthead.

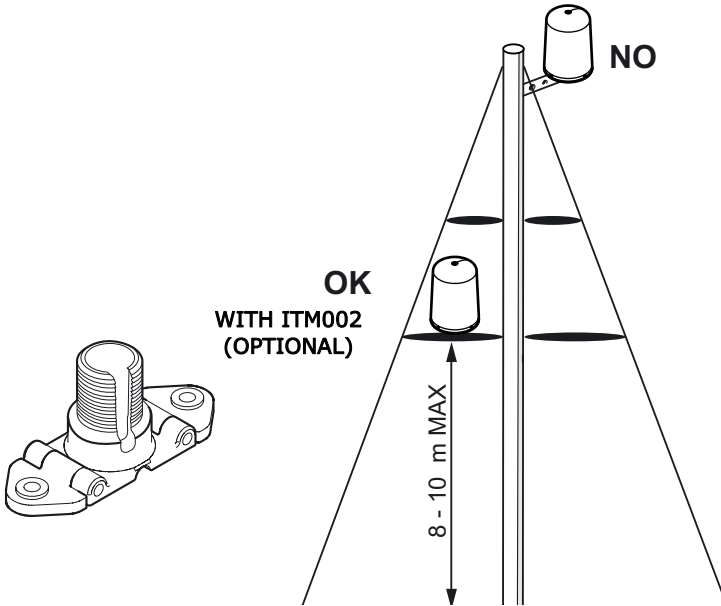


Fig. 7

GL00263

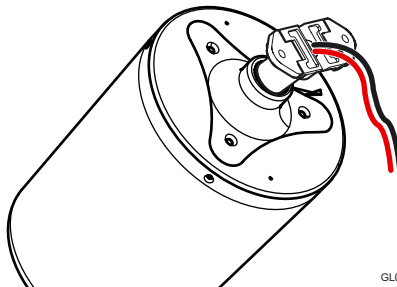
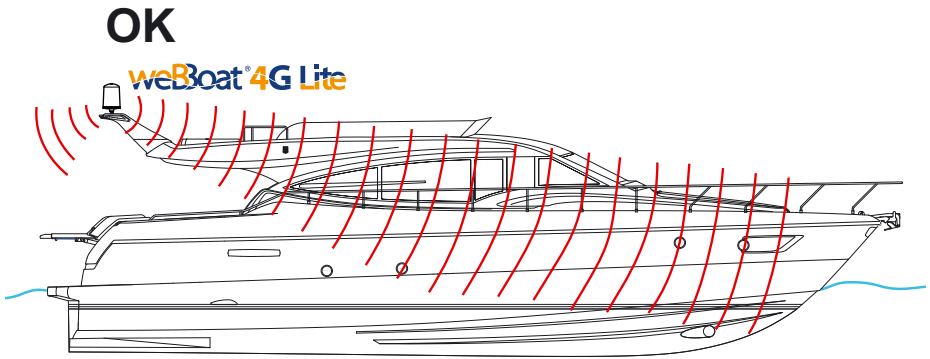


Fig. 8

GL00264

3.1.2 Installation on Power Boats



GL00265

Fig. 9

3.1.3 Installation on Metal Boats

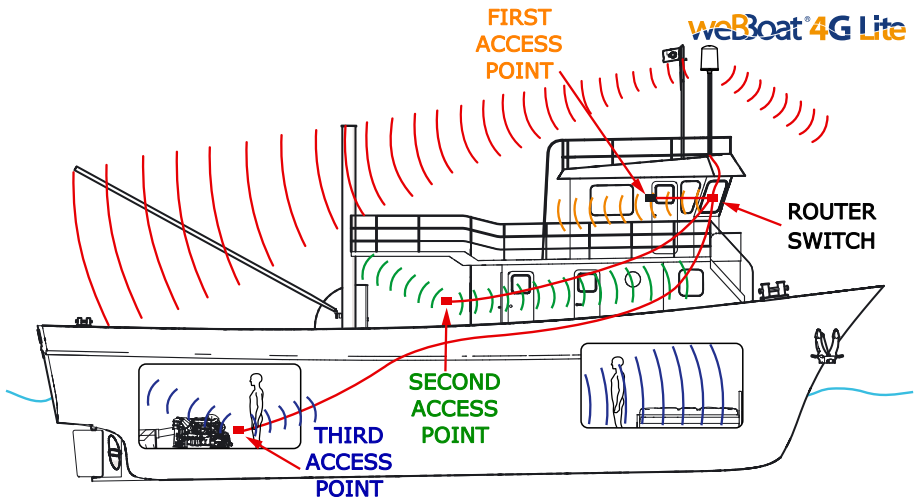


Fig. 10

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

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

NOTE: Do not mount the weBBoat® 4G Lite near metal obstructions that may interfere with the cellular and Wi-Fi signal.

When using the weBBoat® 4G Lite on metal vessels, Wi-Fi signal can be very weak.

For this reason, it is necessary to use an access point ITAP001 (maximum 4 Access Points 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® 4G Lite radome via an Ethernet cable (optional) (Fig. 11).

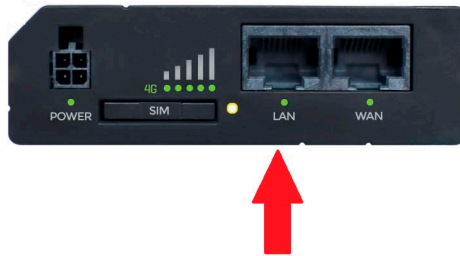


Fig. 11

3.2 ELECTRIC CONNECTIONS

For proper functioning of weBBoat® 4G Lite, simply connect the antenna power cable to a 12V/24V DC source following the guidelines below.

1. Connect the red (+ positive) and the black wire (- negative) coming out from the base of weBBoat® 4G Lite 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.

IMPORTANT: This unit is not protected against over-current or short-circuit. It is recommended to use a 1A (Amper) fuse for protection purposes during installation.

2. Connect the weBBoat® 4G Lite to a 12V or 24V DC source. The power cable line (not supplied), which connects the two wires coming out from the base of weBBoat® 4G Lite must have:
 - Cables with a cross section of 1.5 mm² by a length up to 10 m cable,
 - Cables with a cross section of 2.5 mm² for longer than 10m cable lengths.Minimum power supply voltage should be 9V DC.

NOTE: To prevent boat battery drain, we recommend attaching the weBBoat® 4G Lite power supply to a fuse panel with electrical switch that can be turned off when the unit is not in use.

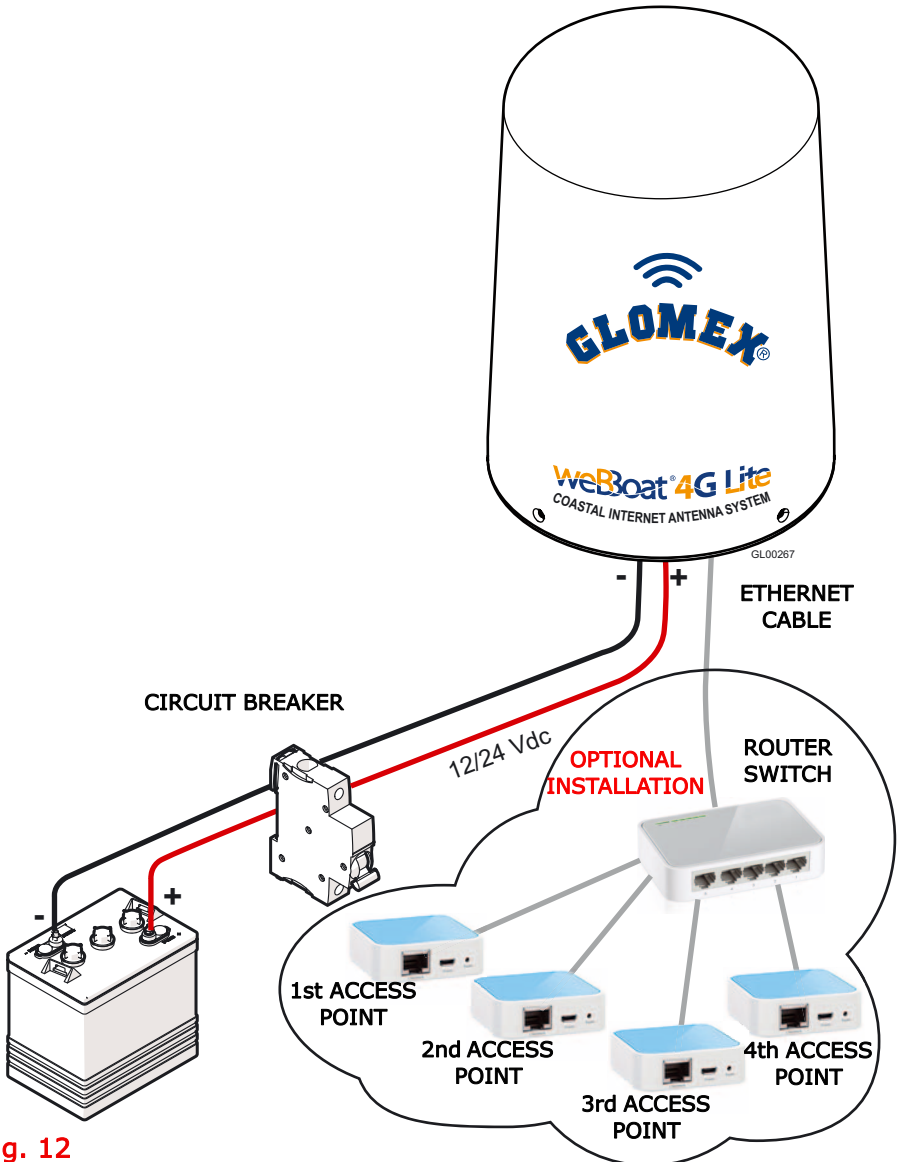


Fig. 12

NOTE: In order to receive the signal from the weBoat® 4G Lite inside metal vessels, up to a maximum of four access points (according to your needs) must be placed inside the boat, which must be linked with a switch to the router inside the weBoat® 4G Lite via an Ethernet network cable.

3.3 INSERTING THE SIM CARD



SWITCH OFF WEBBOAT® 4G Lite BEFORE INSERTING THE SIM CARD.

1. Open the weBBoat® 4G Lite upper radome using a screwdriver (not supplied).
2. Pull out the SIM card tray by pushing the button on the router (Fig. 13) with a SIM card needle (not supplied) or a paper clip (not supplied).

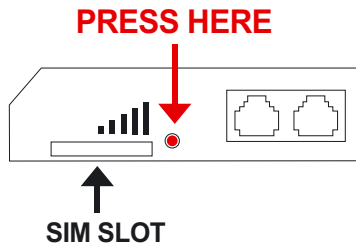


Fig. 13

3. Place the Mini-SIM card into the SIM card tray and slide the SIM card tray back into the slot.

IMPORTANT: If the SIM card has a PIN code, we recommend to disable the PIN code request before inserting the SIM card into the SIM slot of weBBoat® 4G Lite.

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.

The SIM PIN code can also be disabled from the weBBoat® 4G Lite App.

NOTE: *If you have a smaller SIM card (Micro or Nano) than Mini-SIM card, you need to use a SIM adapter.*

4. DOWNLOADING THE APP FOR WEBBOAT® 4G LITE



Fig. 14

Scan the QR code below to download and install the weBBoat® 4G Lite app on your device from the APP Store (for IOS devices) or from Google Play (for Android devices) for free.



Fig. 15

GL00269

IMPORTANT: The app instructions should be followed only by the weB-Boat® 4G Lite administrator (using only one device). After following all the steps in the following instructions, all the other Internet devices (up to 24) can simply select the Wi-Fi network of the weBBoat® 4G Lite and enter the password if required to use the Internet connection.

5. SETUP OF THE APP

Download and install the weBBoat® 4G Lite App on your device from the APP store (for iOS devices) or from Google Play (for Android devices).

NOTE: *This Quick Reference Guide refers to the iOS version for the setup of the app. The screens for the Android will differ slightly.*

NOTE: *Before to start, be sure that the mini-SIM card is inserted in to the SIM card slot and weBBoat® 4G Lite is power supplied.*

Connecting To weBBoat® 4G Lite

1. Connect your mobile device (e.g. smartphone) to the weBBoat® 4G Lite Wi-Fi network. The default Wi-Fi network name (SSID) is weB-Boat®_XXXX (where XXXX is a unique string for each weBBoat® 4G Lite) and it's not password protected (Fig. 16).

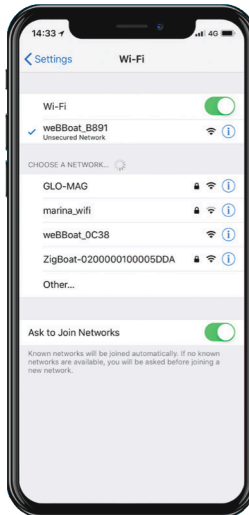


Fig. 16

NOTE: *It is advised after initial setup to set a password (minimum 8 characters) to protect the weBBoat® 4G Lite network. (see page 70).*

2. Open the weBBoat® 4G Lite app. Tap the "+" button in the top right corner (Fig. 17).



Fig. 17

3. Tap the QR Code button. Scan the QR Code on the router or on the page 2 of quick reference guide and press "Save" (Fig. 18).



Fig. 18

NOTE: After scanning the QR code, you can rename the device if desired and then tap "Save".

Alternatively, you can connect your weBBoat® 4G Lite by tapping the "+" button on the top of the screen (Fig. 17) and insert manually the Serial Number located below the QR Code on the label (Fig. 18).

NOTE: The QR code and the Serial Number can also be found on the bottom-right of page 2 of the quick reference guide.

4. Select the weBBoat® 4G Lite from the list (Fig. 19). Type the default administrator password: admin (Fig. 20). Then, tap "Login" button.



Fig. 19

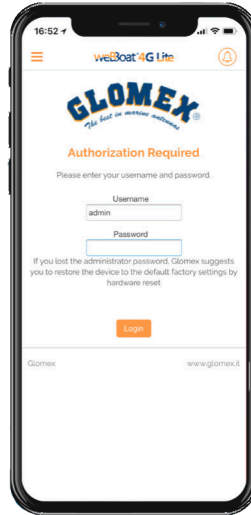


Fig. 20

NOTE FOR IOS USER: For quick access, tap the star icon to select weBBoat® 4G Lite device in the list as your favorite.

Language Selection

In the “Setup Wizard”, select the language (English, Italian, French, Spanish and German). (Fig. 21) English is set by default.

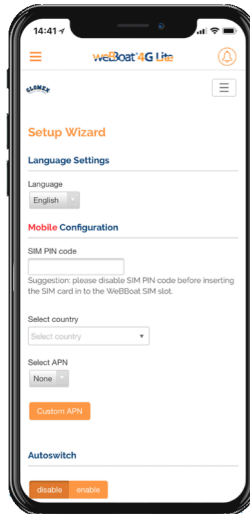


Fig. 21

APN Selection

To unlock the SIM card, enter the PIN code (if needed).

Choose the country corresponding to the SIM card's provider and the related APN from the drop-down list.

To insert an APN manually, tap "Custom APN" button (Fig. 22).

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

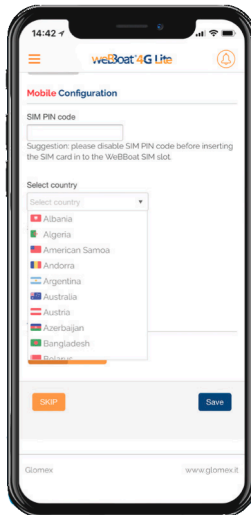


Fig. 22

Autoswitch Wifi/4G

In “Setup Wizard”, the Autoswitch option is disabled by default. Enable “Autoswitch” function to switch automatically from WiFi to 4G/3G if the external WiFi Hotspot signal (i.e. marina WiFi) is lost (Fig. 23).

While using the 4G/3G connection, if the same external WiFi Hotspot (i.e. marina WiFi) is detected again, weBBoat® 4G Lite will switch the connection back from 4G/3G to WiFi automatically.

- To enable this option, tap “Enable” button (Fig. 23). Tap WiFi Scan button (Fig. 23), select one of the available external WiFi networks. Tap OK button to join the network and then enter the password (if required). Tap “Save” button to proceed (Fig. 24).

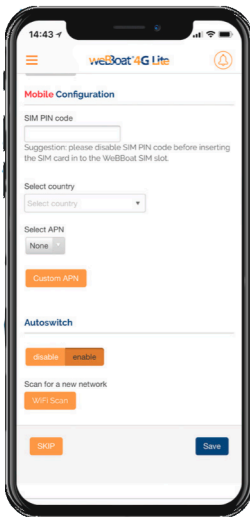


Fig. 23



Fig. 24

⚠ WARNING

During the Autoswitch configuration, the connection between the mobile device and weBBoat® 4G Lite will be lost. Please check the connection between the devices and if needed reconnect before proceeding. To skip the Setup Wizard, tap “Skip” button (not recommended).

IMPORTANT: Tap "Save" button in "Setup Wizard" to save all configuration settings (Fig. 23).

After tapping "Save" button, the Control Panel will be shown automatically. This section includes all information related to the signal, the SIM card and the APN in use (Fig. 25).

If the Autoswitch function is not enabled, you can enable it by tapping "Autoswitch" button (Fig. 25).

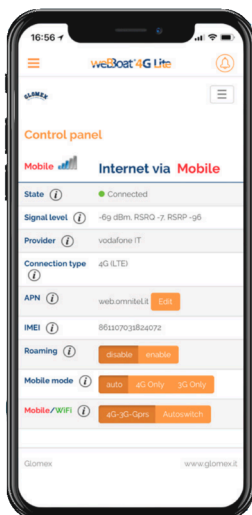


Fig. 25

Mobile Modes

In the “Control Panel”, you can choose one of the following Mobile modes (Fig. 25) for your best usage.

Auto: weBBoat® 4G Lite is connected to the network that provides the best Internet connection

4G only: weBBoat® 4G Lite is connected to the 4G network only

3G only: weBBoat® 4G Lite is connected to the 3G network only

NOTE: *Please note that other WiFi networks nearby could affect the speed performance of the weBBoat® 4G Lite.*

Customizing SSID Name and Password

To customize the name of the Wi-Fi network generated by weBBoat® 4G Lite (SSID) and its password, Tap the Menu button and select “Advanced settings”. (Fig. 26)

Go to “Wi-Fi Configuration” section.

Change the SSID in the related field and select the encryption type. Type the password and tap “Save” button (Fig. 27).



Fig. 26

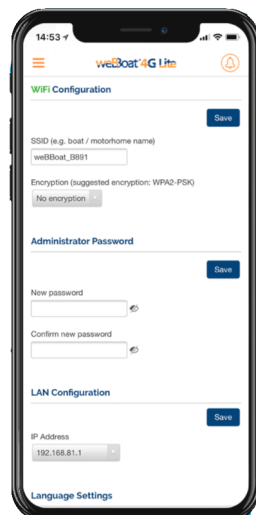


Fig. 27

NOTE: *The default password is 12345678. It is recommended to change the default password for your security.*

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, the weBBoat® 4G Lite will be rebooted automatically. Close the weBBoat® 4G Lite App, reconnect your mobile device (e.g. smartphone) to the new Wi-Fi network of the weBBoat® 4G Lite and then reopen the app.

SUGGESTION: Choose WPA2- PSK encryption for better security.

Changing The Admin Password

To change the Administrator password, tap the Menu button and tap "Advanced settings" (Fig. 26). In the "Administrator Password" section 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.

Restoring To Factory Settings

To restore the device to default factory settings, you should push and hold the "Reset" button for at least 5 seconds. The "Reset" button is placed in the back of the router (Fig. 28)

The "Reset" button can be released when all 5-signal strength LEDs (Fig. 29) are ON. When the weBBoat® 4G Lite reboots, it will reset all custom changes to factory defaults.

Close the weBBoat® 4G Lite App, reconnect your mobile device (e.g. smartphone) to the Wi-Fi network of the weBBoat® 4G Lite and then reopen the App.



Fig. 28



Fig. 29

Firmware And APN List Updates

When firmware and APN list updates are available, they will appear as an Upgrade Button in the “System Updates” menu (Fig. 30).

Tap “Upgrade” button to perform the upgrade and wait for a few minutes.

IMPORTANT: *Please do not power off the weBBoat® 4G Lite during the installation.*

IMPORTANT: *When the Firmware upgrade is completed, weBBoat® 4G Lite will reboot automatically.*

Close the weBBoat® 4G Lite App, reconnect your mobile device (e.g. smartphone) to the Wi-Fi network of the weBBoat® 4G Lite and then reopen the App.

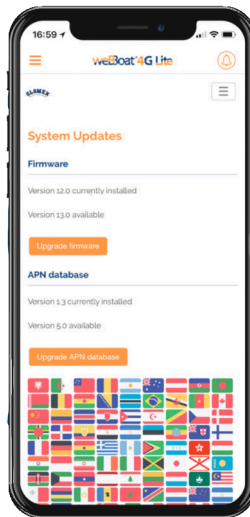


Fig. 30