SCOUT®

Professional Marine Antennas Made In Italy

Wifi onBoard - 4G/LTE dual sim Router + 10 dB WiFi antenna

Code: PF AN NWIFI12

4G onBoard - 4G/LTE dual sim Router + 4 dB 4G/LTE antenna

Code: PF AN NWIFI13

4G onBoard *Plus* - 4G/LTE dual sim Router + 2x 4 dB 4G/LTE antenna

Code: PF AN NWIFI11

WiFi + 4G onBoard - 4G/LTE dual sim Router + 10 dB WiFi antenna + 4 dB 4G/LTE antenna

Code: PF AN NWIFI08

WiFi + 4G onBoard *Plus* - 4G/LTE dual sim Router + 10 dB WiFi antenna + 2x 4 dB 4G/LTE antenna

Code: PF AN NWIFI14

Thank you for purchasing a Scout product. This guide refers to all the WiFi/4G systems listed above, before installing the router and the antenna(s) please read carefully all instructions. Customer comments are welcome.

To avoid burning and voltage caused traumas, of the personnel working with the device, please follow these safety requirements:

⚠ The device is intended for supply from a Limited Power Source (LPS) that power consumption should not exceed 15VA and current rating of over current protective device should not exceed 2A.

⚠ The highest transient over voltage in the output (secondary circuit) of used PSU shall not exceed 36V peak.

⚠ The device can be used with the Personal Computer (first safety class) or Notebook (second safety class). Associated equipment: PSU (power supply unit) (LPS) and personal computer (PC) shall comply with the requirements of standard EN 60950-1.

⚠ Do not mount or service the device during a thunderstorm.

⚠ To avoid mechanical damages to the device it is recommended to transport it packed in a damage-proof pack.
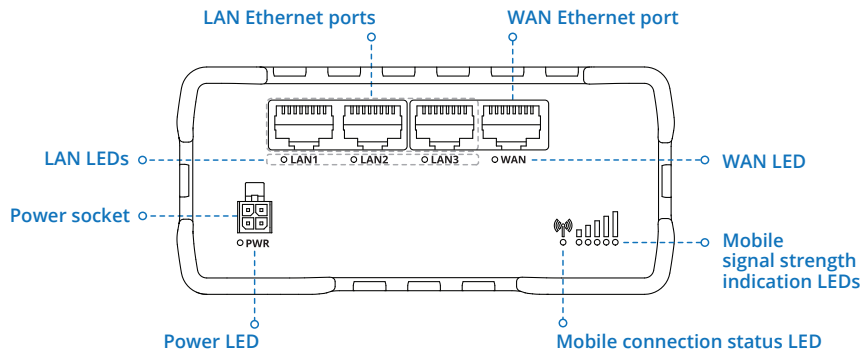
⚠ Protection in primary circuits of associated PC and PSU (LPS) against short circuits and earth faults of associated PC shall be provided as part of the building installation.

To avoid mechanical damage to the device it is recommended to transport it packed in a damageproof pack. When using the device it should be placed so that its indicating LEDs would be visible as they inform in which working mode the device is in and if it has any working problems.
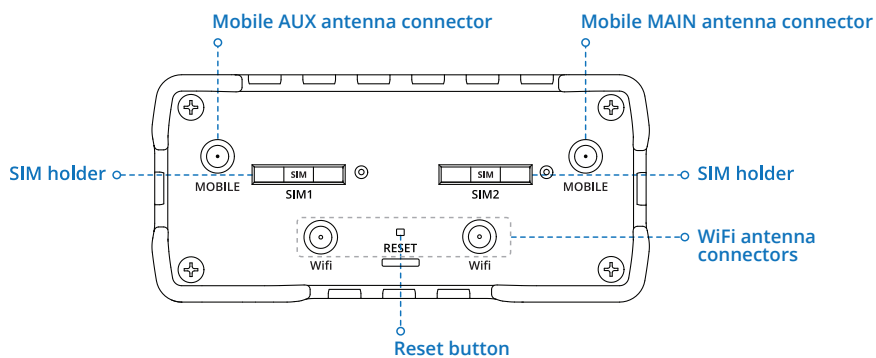
Protection against over current, short circuiting and earth faults should be provided as a part of the building installation.

Signal level of the device depends on the environment in which it is working in. In case the device starts working insufficiently, please refer to qualified personnel in order to repair this product. We recommend forwarding it to a repair center or the manufacturer. There are no exchangeable parts inside the device.
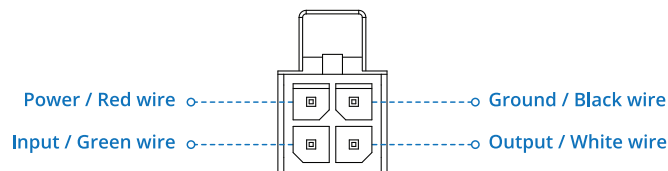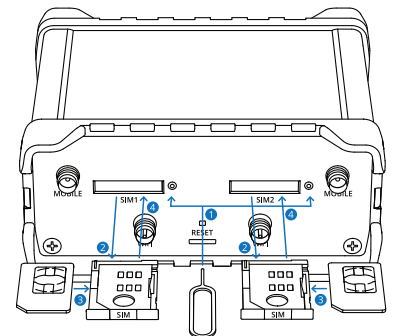
Router front view

LAN Ethernet ports

WAN Ethernet port

LAN LEDs

WAN LED

Power socket

Mobile
signal strength
indication LEDs

Power LED

Mobile connection status LED

Router back view

Mobile AUX antenna connector

Mobile MAIN antenna connector

SIM holder

SIM holder

WiFi antenna
connectors

Reset button

Power socket pinout

Power / Red wire

Ground / Black wire

Input / Green wire

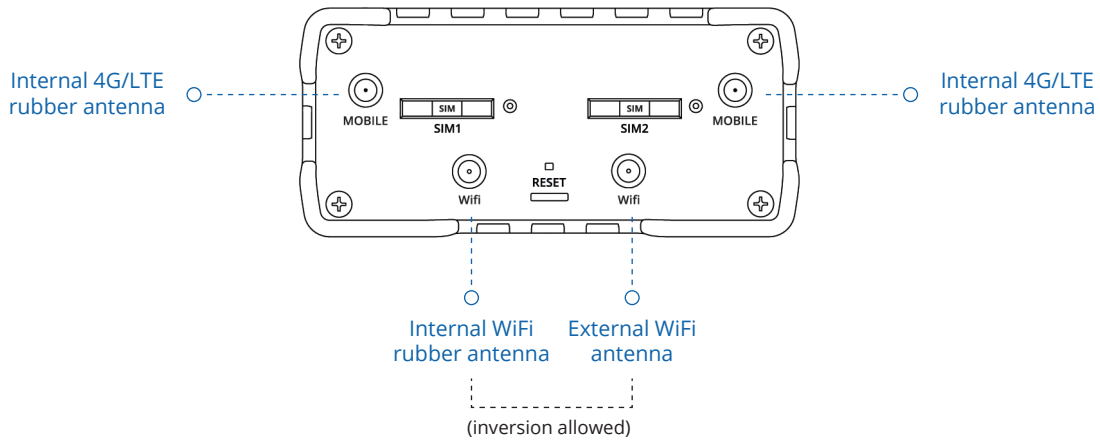Output / White wire

Hardware installation

1. Push the SIM holder button with the SIM needle.

2. Pull out the SIM holder.

3. Insert you SIM card into the SIM holder.

4. Slide the SIM holder back into the router.

5. Connect 4G/LTE and WiFi antennas (see next page for the detailed description).

6. Connect the power adapter to the socket on the front device. Then plug the other end of the power adapter into a power outlet.

7. Connect the device wirelessly (SSID: RUT950_****(unique to each device)) or use an Ethernet cable (connected to LAN port).
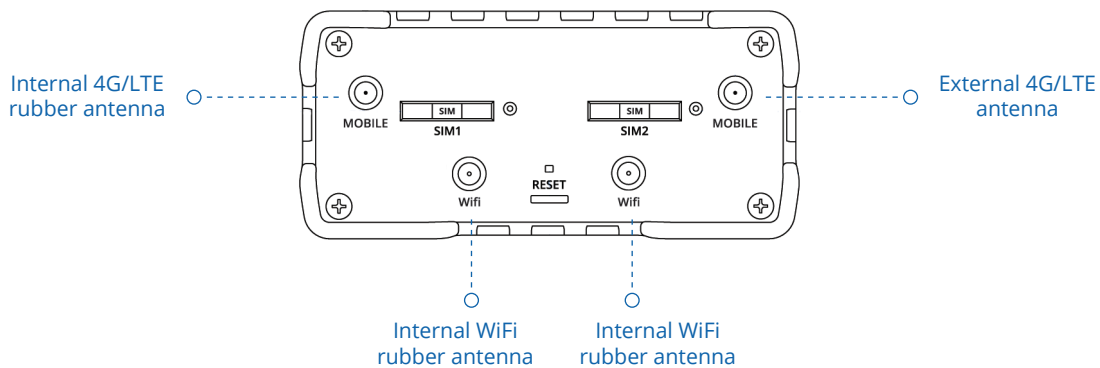
Antennas connection

WiFi onBoard

- connect the two internal 4G/LTE rubber antennas marked "Mobile" to the Mobile antenna connectors;

- connect the external WiFi antenna to one of the two WiFi antenna connectors;

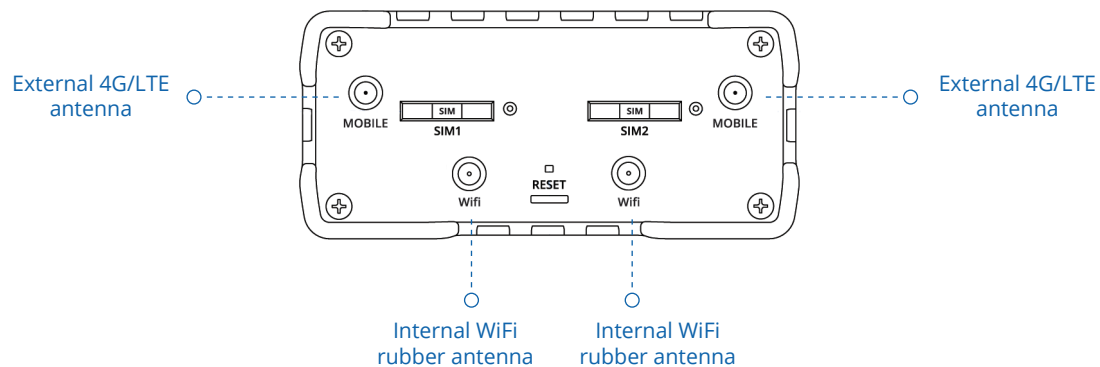- connect one internal WiFi rubber antenna to the other WiFi antenna connector.

Internal 4G/LTE rubber antenna — MOBILE SIM1 SIM2 MOBILE — Internal 4G/LTE rubber antenna
RESET
Wifi — Wifi

Internal WiFi rubber antenna   External WiFi antenna
(inversion allowed)

4G onBoard

- connect one internal 4G/LTE rubber antenna marked "Mobile" to the Mobile AUX antenna connector;

- connect the external 4G/LTE antenna to the Mobile MAIN antenna connector;

- connect the two internal WiFi rubber antennas to the WiFi antenna connectors.

Internal 4G/LTE rubber antenna — MOBILE SIM1 SIM2 MOBILE — External 4G/LTE antenna
RESET
Wifi — Wifi

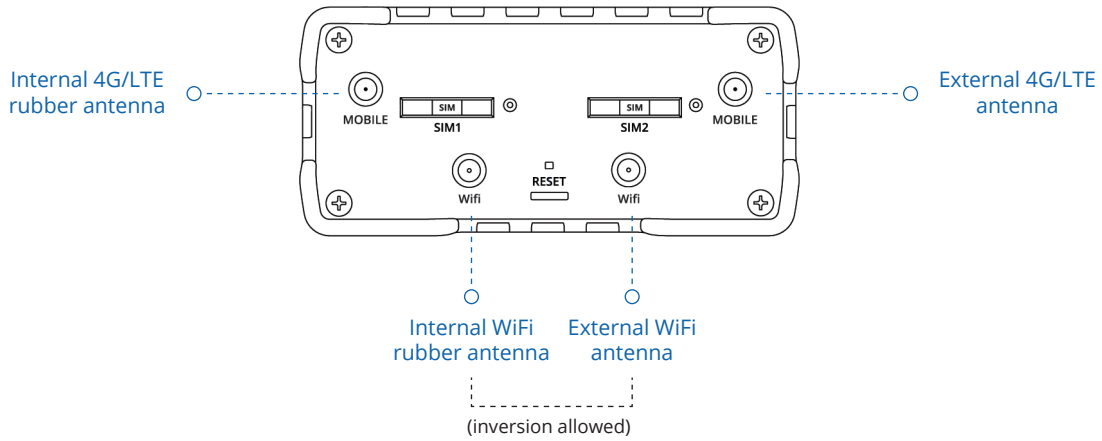Internal WiFi rubber antenna   Internal WiFi rubber antenna

4G onBoard Plus

- connect the two external 4G/LTE antennas to the Mobile antenna connectors;

- connect the two internal WiFi rubber antennas to the WiFi antenna connectors.
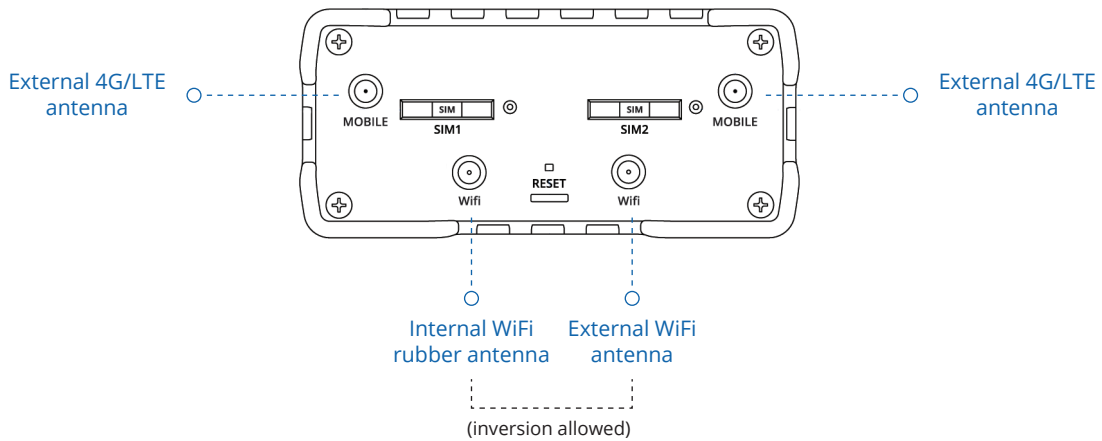
External 4G/LTE antenna — MOBILE SIM1 SIM2 MOBILE — External 4G/LTE antenna
RESET
Wifi — Wifi

Internal WiFi rubber antenna   Internal WiFi rubber antenna

WiFi + 4G onBoard

- connect one internal 4G/LTE rubber antenna marked "Mobile" to the Mobile AUX antenna connector;

- connect the external 4G/LTE antenna to the Mobile MAIN antenna connector;

- connect the external WiFi antenna to one of the two WiFi antenna connectors;

- connect one internal WiFi rubber antenna to the other WiFi antenna connector.

Internal 4G/LTE rubber antenna

External 4G/LTE antenna

MOBILE SIM1 SIM2 MOBILE
RESET
Wifi Wifi

Internal WiFi rubber antenna External WiFi antenna

(inversion allowed)

WiFi + 4G onBoard *Plus*

- connect the two external 4G/LTE antennas to the Mobile antenna connectors;

- connect the external WiFi antenna to one of the two WiFi antenna connectors;

- connect one internal WiFi rubber antenna to the other WiFi antenna connector.
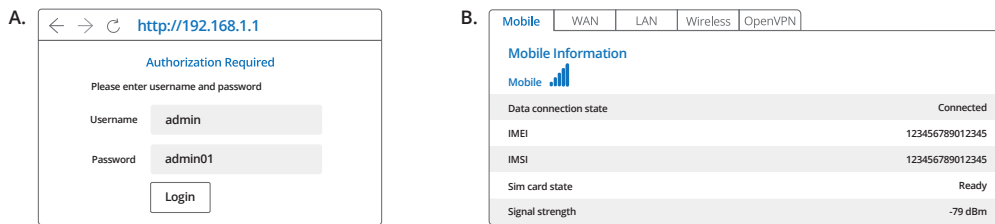
External 4G/LTE antenna

External 4G/LTE antenna

MOBILE SIM1 SIM2 MOBILE
RESET
Wifi Wifi

Internal WiFi rubber antenna External WiFi antenna

(inversion allowed)

Antennas reference

Internal WiFi rubber antenna

Internal 4G/LTE rubber antenna

External 4G/LTE antenna

External WiFi antenna

Login to device

1. Scan for available networks with your wireless device (Smartphone, Tablet, Laptop), choose the wireless network RUT950_**** from the list and click Connect. Enter the WiFi password located on the device's bottom label.

2. To enter the router's Web interface (WebUI), type http://192.168.1.1 into the URL field of your Internet browser.

3. Use login information shown in image A when prompted for authentication.

4. After you login, you will be prompted to change your password for security reasons. The new password must contain at least 8 characters, including at least one uppercase letter, one lowercase letter and one digit. This step is mandatory and you will not be able to interact with the router's WebUI before you change the password.

5. When you change the router's password, the Configuration Wizard will start. The Configuration Wizard is a tool used to setup some of the router's main operating parameters.

6. Go to the Status > Network page and pay attention to the Signal Strength indication (image B). To maximize the cellular performance try adjusting the antennas or changing the location of your device to achieve the best signal conditions.

A.

← → C	http://192.168.1.1

Authorization Required

Please enter username and password

Username	admin
Password	admin01

Login

B.

Mobile	WAN	LAN	Wireless	OpenVPN

Mobile Information

Mobile ▂▄▆█

Data connection state	Connected
IMEI	123456789012345
IMSI	123456789012345
Sim card state	Ready
Signal strength	-79 dBm

WAN setting

To set the WAN select Network > WAN from the main Menu.

The Operation Modes window lets you determine how the router will be connecting to the internet. You can chose between three types of WAN – Mobile, Wired and Wi-Fi. You can also setup backup WAN options in case your main connection goes down.

Operation Mode

	Main WAN	Backup WAN ▼	Interface Name	Protocol	IP Address	Sort	
🖥	⦿	☐	Wired (WAN)	Static	192.168.10.66		Edit
📶	○	☑	Mobile (WAN2)	None	188.69.69.69	↑ ↓	Edit
📶	○	☐	WiFi (WAN3)	DHCP	-	↑ ↓	Edit

You can choose one main WAN and one or two (or none) backup WAN options. To choose your main WAN just check the desired option (wired, mobile or Wi-Fi) in the Main WAN column (first from the left), to choose a backup WAN(s), check the desired option(s) in the Backup WAN column (second from the left). Above is an example of a configuration that uses wired as Main WAN and mobile as Backup WAN. The Operation Modes tab also displays each interfaces name, WAN IP address and Protocol in use. To configure a WAN interface more in depth, click the Edit button located to the right of the desired interface. Each interface configures separately, to avoid redundancy this chapter will only overview the configuration of the wired WAN interface, since mobile contains less information and Wi-Fi is basically the same.

Table of typical WAN configurations depending on the system setup

System	Main WAN	Backup WAN
WiFi onBoard	WiFi (WAN3)	-
4G onBoard	Mobile (WAN2)	-
4G onBoard *Plus*	Mobile (WAN2)	-
WiFi + 4G onBoard	WiFi (WAN3)	Mobile (WAN2)
WiFi + 4G onBoard *Plus*	WiFi (WAN3)	Mobile (WAN2)

Scan for available networks

When the main WAN or the backup WAN is set on WiFi (WAN3) you can scan the surrounding area and attempt to connect to a new wireless access point.

1. Enter the router's Web interface (WebUI).

2. Go to the Network > WAN page and click the Scan button to scan the surrounding area as shown in picture below.

3. You will be redirected to the window shown below.

4. Pressing Start scan will initiate a scan for available WiFi Access Points in the area. After the scan finishes, you will see a list of these Access points. Choose one according to your liking and press the Join Network button next to it.

5. Type in the password to access the selected network and press Save.

5. You're now connected to the external wireless access point, the free Internet signal is available on board.
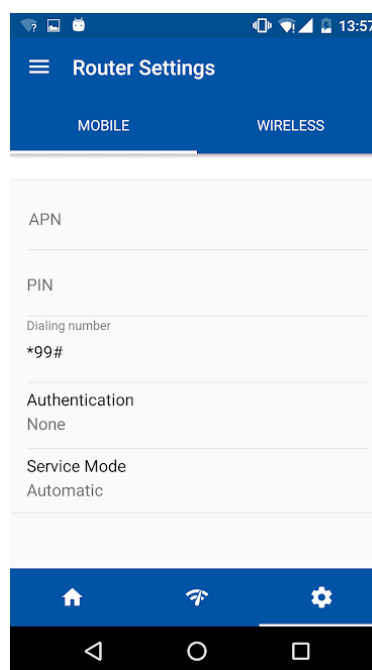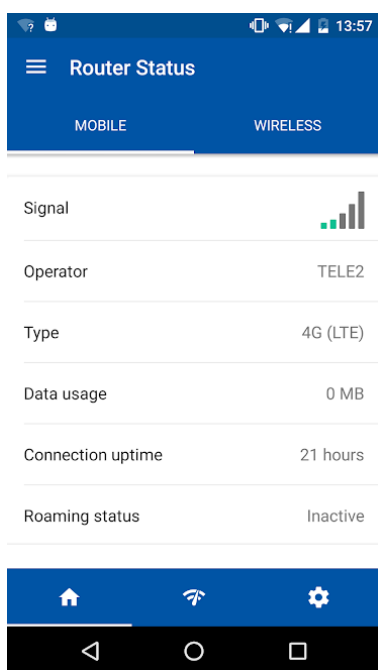
Complete user manual

All the information ragarding the router (model Sea-Hub *plus*) are hosted by a Wiki page which contains user manuals, configuration guides, certification information and much more.

Please find it at the following internet address: https://wiki.teltonika.lt/view/RUT950

APP for Android and iOS

Teltonika Router is an application developed for Android and for iOS to easily setup, monitor and manage the router (model Sea-Hub *plus)*.

You can dawnload the app for free on Goggle Play and App Store.

Remote Management Solution (RMS)

The Remote Management System (RMS) is a Cloud-based IoT platform designed for intuitive and convenient remote monitoring, configuration and control of the router (model Sea-Hub *plus*). In case you need assistance with your router configuration you can allow Scout to manage and monitor your router at distance (the router must be connected to the Internet). To active the RMS function please follow these steps:

1. Enter the router's Web interface (WebUI).

2. Go to the System > Administration > RMS page and flag the "Enable remote monitoring" option, than click the Save button.

3. Ask Scout helpdesk (e-mail: scout@scoutantenne.com) to connect to your router. You must provide the router serial number and router LAN MAC address. All the information are displayed in the same page (System > Administration > RMS).

TECHNICAL INFORMATION

Radio specifications	
RF technologies	GSM, GPRS, EDGE, UMTS/HSPA+, LTE, GNSS, WiFi
Max RF power	33 dBm@GSM, 24 dBm@WCDMA, 23 dBm@LTE, 20 dBm@WiFi
Bundled antennas specifications*	
GSM/WCDMA/LTE antenna	698~960/1710~2690 MHz, 50 Ω, VSWR<3, gain** 3 dBi, omnidirectional, SMA male connector
WiFi antenna	2400~2483.5 MHz, 50 Ω, VSWR<2, gain** 5 dBi, omnidirectional, RP-SMA male connector

*Order code dependent.
**Higher gain antenna can be connected to compensate for cable attenuation when a cable is used. The user is responsible for the compliance with the legal regulations.

SAFETY INFORMATION

RUT950 router must be used in compliance with any and all applicable national and international laws and with any special restrictions regulating the utilization of the communication module in prescribed applications and environments.

[EN] English	Hereby, TELTONIKA declares that this RUT950 is in compliance with the essential requirements and other relevant provisions of Directive CE/RED.
[BG] Bulgarian	С настоящето, TELTONIKA декларира, че RUT950 е в съответствие със съществените изисквания и другитеприложими разпоредби на Директива CE/RED.
[CZ] Czech	TELTONIKA tímto prohlašuje, že RUT950 splňuje základní požadavky a všechna příslušná ustanoveni Směrnice CE/RED.
[DE] German	Hiermit erklärt TELTONIKA dass sich das Gerät RUT950 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie CE/RED befindet.
[DK] Danish	Undertegnede TELTONIKA erklærer herved, at følgende udstyr RUT950 overholder de væsentlige krav og øvrige relevante krav i direktiv CE/RED.
[EE] Estonian	Käesolevaga kinnitab TELTONIKA seadme RUT950 vastavust direktiivi CE/RED põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[ES] Spanish	Por la presente, TELTONIKA declara que este RUT950 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva CE/RED.
[FI] Finish	TELTONIKA vakuuttaa täten että RUT950 tyyppinen laite on direktiivin CE/RED oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[FR] French	TELTONIKA déclare que cette RUT950 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive CE /RED.
[GR] Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ TELTONIKA ΔΗΛΩΝΕΙ ΟΤΙ RUT950 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ CE/RED.
[HU] Hungarian	A TELTONIKA ezzennel kijelenti, hogy a RUT950 típusú berendezés teljesíti az alapvető követelményeket és más CE/RED irányelvben meghatározott vonatkozó rendelkezéseket.
[IT] Italian	Con la presente TELTONIKA dichiara che questo RUT950 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva CE/RED.
[LT] Lithuanian	Šiuo dokumentu UAB TELTONIKA deklaruoja, kad šis RUT950 atitinka esminius reikalavimus ir kitas CE/RED Direktyvos nuostatas.
[LV] Latvian	Ar šo TELTONIKA deklarē, ka RUT950 atbilst Direktīvas CE/RED būtiskajām prasībām un to saistītajiem noteikumiem.
[NL] Dutch	Hierbij verklaart TELTONIKA dat het toestel l RUT950 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn CE/RED.
[NO] Norwegian	TELTONIKA Erklærer herved at RUT950 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv CE/RED.
[PL] Polish	Niniejszym TELTONIKA deklaruje że RUT950 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy CE/RED.
[PT] Portuguese	Eu, TELTONIKA declaro que o RUT950 cumpre os requisitos essenciais e outras provisões relevantes da Directiva CE/RED.
[RO] Romanian	Prin prezenta, TELTONIKA declară că aparatul RUT950 este în conformitate cu cerinţele esenţiale şi cu alte prevederi pertinente ale Directivei CE/RED.
[SE] Swedish	Härmed intygar TELTONIKA att denna RUT950 är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv CE/RED.
[SI] Slovenian	TELTONIKA izjavlja, da je ta RUT950 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive CE/RED.

This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.

C€ Hereby, Scout declares that the radio equipment type Sea-Hub *plus* is in compliance with Directives: 2014/53/EU, 2014/35/EU, 2014/30/EU. The full text of the EU declaration of conformity is available at the following internet address: https://teltonika.lt/product/rut950/