RUTX11

User manual v1.1

Wiki knowledge base
https://wiki.teltonika.lt/

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ATTENTION

Before using the device, we strongly recommend reading this user manual first.

Do not disassemble the device. Do not touch the device if the housing is broken.

All wireless devices for data transferring may be susceptible to interference, which could affect performance.

The device is not water-resistant. Keep it dry.

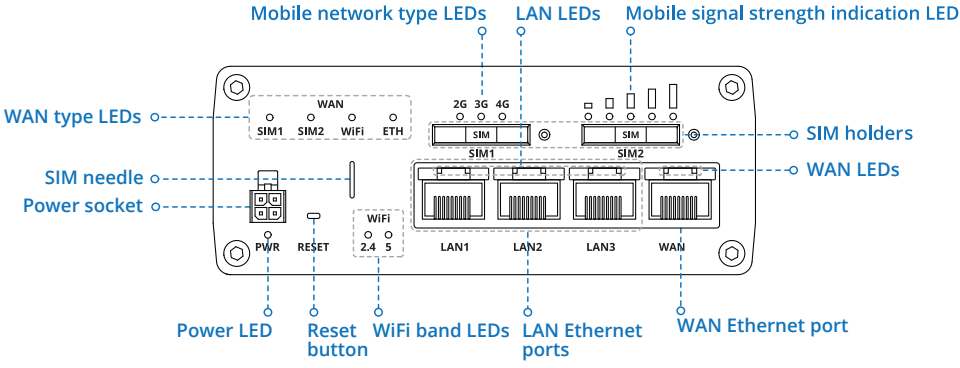
Device is powered by a low voltage 12 VDC power adapter.

SAFETY

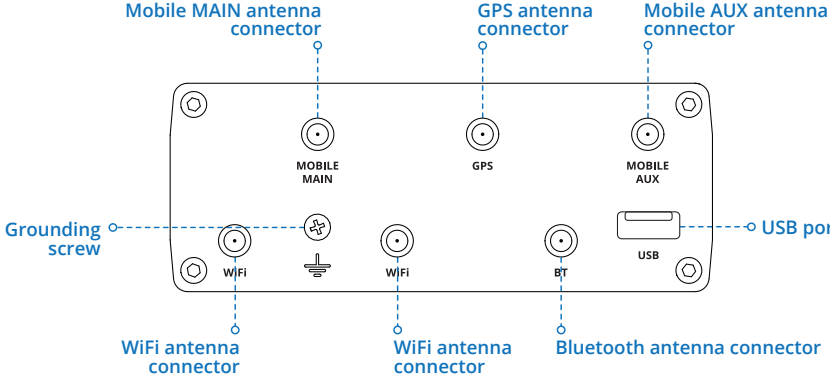
To avoid voltage caused traumas please follow these safety requirements:
- The device is intended to be powered from Limited Power Source (LPS) with a power of at least 18 W.
- The overcurrent protective device rated current should not exceed 3A.
- The highest transient overvoltage in the output (secondary circuit) of used PSU shall not exceed 55 V peak.
- The device can be used with a 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/EN 62368-1.
- To avoid mechanical damage to the device it is recommended to transport it packed in a damage-proof 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.

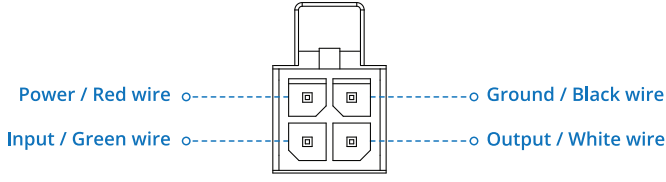
FRONT VIEW



BACK VIEW

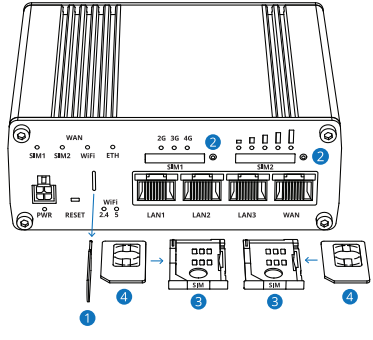


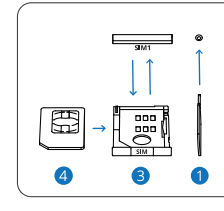
POWER SOCKET PINOUT



HARDWARE INSTALLATION

1. Pull out the ❶ SIM needle from the front panel of the router.
2. Push the ❷ SIM holder button with the ❶ SIM needle.
3. Pull out the ❸ SIM holder.
4. Insert your ❹ SIM card into the ❸ SIM holder.
5. Slide the ❸ SIM holder back into the router.
6. Attach LTE, GPS, Bluetooth and WiFi antennas (max torque 0.4 Nm 3.5 in-lbs).
7. Connect the power adapter to the socket on the front of the device. Then plug the other end of the power adapter into a power outlet.
8. Connect to the device wirelessly (SSID: RUTX11_**** (unique to each device)) or use an Ethernet cable (connected to LAN port).





Sim insertion/removal

LED INDICATIONS

- 2G,3G and 4G LEDs constantly blinking sequential: no SIM or bad PIN or searching operator.
- 2G/3G/4G LEDs blinking every 1 sec.: connected to 2G/3G/4G, but no data session established.
- 2G/3G/4G LEDs turned on: connected to 2G/3G/4G with data session.
- SIM1/SIM2/ETH LEDs turned on: SIM1/SIM2/ETH interface turned on.
- 2.4, 5 WiFi LEDs blinking every sec.: connected to 2.4, 5 WiFi band, but no data session established.
- 2.4, 5 WiFi LEDs turned on: connected to 2.4, 5 WiFi band with data session.

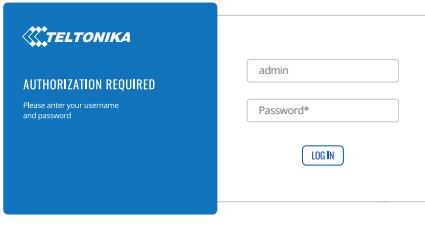
SIGNAL STRENGTH LEDS

No. of lit up LEDs	Signal strength value
0	≤ -111 dBm
1	-110 dBm to -97 dBm
2	-96 dBm to -82 dBm
3	-81 dBm to -67 dBm
4	-66 dBm to -52 dBm
5	≥ -51 dBm

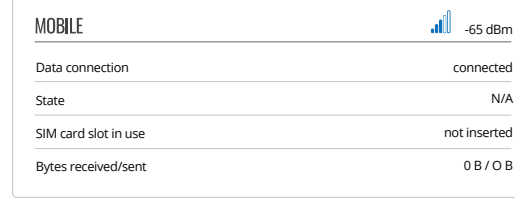
LOGIN TO DEVICE

1. To enter the router's Web interface (WebUI), type **http://192.168.1.1** into the URL field of your Internet browser.
2. Use login information shown in image A when prompted for authentication.
3. After you log in, 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**.
4. When you change the router's password, the **Configuration Wizard** will start. The **Configuration Wizard** is a tool used to set up some of the router's main operating parameters.
5. 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.



B.



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If you have any more questions or suggestions regarding GPL, please contact us at **gpl@teltonika.lt**

SPECIFICATIONS

HARDWARE

- Quad-core ARM Cortex A7 717 MHz CPU
- 256 MB of DDR3 memory, 256 MB SPI Flash memory
- 4 pin industrial DC power socket
- USB port for external devices
- Reset/restore to default button
- 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holder
- 2 x SMA for LTE, 1 x SMA for GNNS, 1 x BT antenna connector
- 2 x RP-SMA for WiFi antenna connectors
- 8 x Ethernet LEDs, 3x WAN type LEDs, 2 x WiFi band LEDs
- 1 x power LED, 5 x Mobile connection signal strength LEDs
- 3 x Mobile connection type LEDs
- Grounding screw
- Attachable DIN rail adapter

*Supported frequency bands are dependent on geographical location and may not be available in all markets

WI-FI

- IEEE 802.11ac Wave 2 (WiFi 5), 802.11b/g/n standards
- 2x2 MIMO
- 2.412-2.484 / 5.18-5.905 GHz WiFi frequency range*
- 20dBm max WiFi TX power

ETHERNET

- IEEE 802.3, IEEE 802.3u, 802.3az standards
- 3 x LAN ports 10/100/1000 Mbps
- 1 x WAN port (can be configured to LAN) 10/100/1000 Mbps
- Supports Auto MDI/MDIX

BLUETOOTH

- Bluetooth Version 4.0
- Bluetooth Low Energy, Dual-mode Bluetooth
- Class 3, Class 2 and Class 1 support
- High-sensitivity Bluetooth and Bluetooth low energy receiver

RADIO INFORMATION

Radio specifications	
RF technologies	DC-HSDPA, HSUPA, WCDMA, LTE, GNSS, WiFi, Bluetooth
Max RF power	30 dBm@WiFi, 24 dBm@WCDMA, 23 dBm@LTE, 20 dBm@WiFi, 9.75dBm@Bluetooth
Bundled antennas specifications*	
WCDMA/LTE antenna	698~960/1710~2690 MHz, 50 Ω, VSWR<3, gain** 3 dBi, omnidirectional, SMA male connector
GNSS antenna	1575.42~1602 MHz, 2.2~5 VDC, VSWR<1.5, gain** 28 dB, RHCP polarization, SMA male connector
WiFi antenna	2400~2483.5 MHz/5.15~5.905 GHz, 50 Ω, VSWR<2, gain** 5dBi, omnidirectional, RP-SMA male connector
Bluetooth antenna	2400~2483.5 MHz, 50 Ω, VSWR<2, gain** 2dBi, 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.

ELECTRICAL, MECHANICAL & ENVIRONMENTAL

Dimensions (W x D x H)	115 mm x 95 mm x 44 mm
Weight	470 g
Power supply	9 - 50 VDC, 4 pin DC connector
Input voltage range	9 – 50 VDC
Power consumption	< 18 W
Operating temperature	- 40 °C to 75 °C
Storage temperature	- 45 °C to 80 °C
Operating humidity	10 % to 90 % Non-condensing
Storage humidity	5 % to 95 % Non-condensing

DECLARATION OF CONFORMITY

CE

RUTX11 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 RUTX11 is in compliance with the essential requirements and other relevant provisions of Directive RED.
[BG] Bulgarian	С настоящето, TELTONIKA декларира, че RUTX11 е в съответствие със съществените изисквания и другитеприложими разпоредби на Директива RED.
[CZ] Czech	TELTONIKA tímto prohlašuje, že RUTX11splňuje základní požadavky a všechna příslušná ustanoveni Směrnice RED.
[DE] German	Hiermit erklärt TELTONIKA dass sich das Gerät RUTX11 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie RED befindet.
[DK] Danish	Undertegnede TELTONIKA erklærer herved, at følgende udstyr RUTX11 overholder de væsentlige krav og øvrige relevante krav i direktiv RED.
[EE] Estonian	Käesolevaga kinnitab TELTONIKA seadme RUTX11 vastavust direktiivi RED põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[ES] Spanish	Por la presente, TELTONIKA declara que este RUTX11 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva RED.
[FI] Finish	TELTONIKA vakuuttaa täten että RUTX11 tyyppinen laite on direktiivin RED oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[FR] French	TELTONIKA déclare que cette RUTX11 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive RED.
[GR] Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ TELTONIKA ΔΗΛΩΝΕΙ ΟΤΙ RUTX11 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ RED.
[HU] Hungarian	A TELTONIKA ezzennel kijelenti, hogy a RUTX11 típusú berendezés teljesíti az alapvető követelményeket és más RED irányelvben meghatározott vonatkozó rendelkezéseket.
[IT] Italian	Con la presente TELTONIKA dichiara che questo RUTX11 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva RED.
[LT] Lithuanian	Šiuo dokumentu UAB TELTONIKA deklaruoja, kad šis RUTX11 atitinka esminius reikalavimus ir kitas RED Direktyvos nuostatas.
[LV] Latvian	Ar šo TELTONIKA deklarē, ka RUTX11 atbilst Direktīvas RED būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
[NL] Dutch	Hierbij verklaart TELTONIKA dat het toestel l RUTX11 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn RED.
[NO] Norwegian	TELTONIKA Erklærer herved at RUTX11 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv RED.
[PL] Polish	Niniejszym TELTONIKA deklaruje że RUTX11 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy RED.
[PT] Portuguese	Eu, TELTONIKA declaro que o RUTX11 cumpre os requisitos essenciais e outras provisões relevantes da Directiva RED.
[RO] Romanian	Prin prezenta, TELTONIKA declară că aparatul RUTX11 este în conformitate cu cerinţele esenţiale şi cu alte prevederi pertinente ale Directivei RED.
[SE] Swedish	Härmed intygar TELTONIKA att denna RUTX11 är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv RED.
[SI] Slovenian	TELTONIKA izjavlja, da je ta RUTX11 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive RED.

Declaration of Conformity (DoC) can be obtained by visiting https://teltonika.lt/PRODUCT/RUTX11/

[EN] Instruction Manual: Connect the power adapter to turn on the device. Open 192.168.1.1 in your web browser to configure it. More information on https://wiki.teltonika.lt

[BG] Инструкция: Свържете адаптера на захранване, за да включите устройството. Отворете 192.168.1.1 в уеб браузър, за да настроите продукта. Повече информация в https://wiki.teltonika.lt

[CZ] Návod k použití: Připojte napájecí adaptér k zapnutí přístroje. Otevřete 192.168.1.1 ve webovém prohlížeči pro konfiguraci produktu. Více informací najdete v https://wiki.teltonika.lt

[DE] Bedienungsanleitung: Verbinden Sie das Netzteil, um das Gerät einzuschalten. Öffnen Sie 192.168.1.1 in einem Web Browser, um das Produkt zu konfigurieren. Weitere Informationen im https://wiki.teltonika.lt

[DK] Instruktionsbog: Tilslut strømadapteren for at tænde for enheden. Åbn 192.168.1.1 i en webbrowser til at konfigurere produktet. Mere information i https://wiki.teltonika.lt

[EE] Kasutusjuhend: Ühendage toiteadapter seadme sisselülitamiseks. Avatud 192.168.1.1 in veebilehitseja seadistada toodet. Rohkem teavet https://wiki.teltonika.lt

[ES] Manual de instrucciones: Conecte el adaptador de alimentación para encender la unidad. Abra 192.168.1.1 en un navegador web para configurar el producto. Más información en https://wiki.teltonika.lt

[FI] Käyttöohje: Kytke virtalähde päälle laitteen. Avaa 192.168.1.1 in selaimen määrittää tuotteen. Lisää tietoa https://wiki.teltonika.lt

[FR] Mode d'emploi: Connectez l'adaptateur d'alimentation pour allumer l'appareil. Ouvrez 192.168.1.1 dans un navigateur Web pour configurer le produit. Plus d'informations dans https://wiki.teltonika.lt

[GR] εγχειρίδιο οδηγιών: Συνδέστε τον προσαρμογέα τροφοδοσίας για να ενεργοποιήσετε τη μονάδα. Ανοίξτε 192.168.1.1 σε ένα πρόγραμμα περιήγησης στο Web για να διαμορφώσετε το προϊόν. Περισσότερες πληροφορίες στο https://wiki.teltonika.lt

[HU] Használati utasítás: Csatlakoztassa a hálózati adaptert a készülék bekapcsolásához. Megnyitása 192.168.1.1 egy webböngészőben beállítani a terméket. Több információ https://wiki.teltonika.lt

[IT] Manuale di istruzioni: Collegare l'adattatore di alimentazione per accendere l'unità. Aprire 192.168.1.1 in un browser Web per configurare il prodotto. Maggiori informazioni in https://wiki.teltonika.lt

[LT] Naudojimosi instrukcija: Prijunkite maitinimo adapterį, įjunkite įrenginį. Interneto naršyklėje atidarykite adresą 192.168.1.1 - galite konfigūruoti gaminį. Daugiau informacijos rasite https://wiki.teltonika.lt

[LV] Lietošanas instrukcija: Pievienojiet Strāvas adapteri, lai ieslēgtu ierīci. Atvērt 192.168.1.1 ar interneta pārlūku, lai konfigurētu produktu. Plašāka informācija https://wiki.teltonika.lt

[NL] Handleiding: Sluit voedingsadapter aan op het apparaat in te schakelen. Open 192.168.1.1 in een webbrowser om het product te configureren. Meer informatie in https://wiki.teltonika.lt

[NO] Bruksanvisningen: Koble strømadapteren for å slå på enheten. Åpne 192.168.1.1 i en nettleser for å konfigurere produktet. Mer informasjon på https://wiki.teltonika.lt

[PL] Instrukcja obsługi: Podłącz adapter zasilania, aby włączyć urządzenie. Otwórz 192.168.1.1 w przeglądarce internetowej, aby skonfigurować urządzenie. Więcej informacji w https://wiki.teltonika.lt

[PT] Manual de instruções: Conecte o adaptador de alimentação para ligar o aparelho. Abra 192.168.1.1 em um navegador da web para configurar o produto. Mais informações em https://wiki.teltonika.lt

[RO] Instrucțiuni de utilizare: Conectați adaptorul de alimentare pentru a porni aparatul. Deschide 192.168.1.1 întrun browser web pentru a configura produsul. Mai multe informații în https://wiki.teltonika.lt

[SE] Instruktionsmanual: Anslut nätadap tern för att slå på enheten. Öppna 192.168.1.1 i en webbläsare för att konfigurera produkten. Mer information på https://wiki.teltonika.lt

[SI] Navodila: Priključite napajalnik za vklop naprave. Odprite 192.168.1.1 v spletnem brskalniku nastaviti izdelek. Več informacij v https://wiki.teltonika.lt

[SK] NávoZd na použitie: Pripojte napájací adaptér k zapnutiu prístroja. Otvorte 192.168.1.1 vo webovom prehliadači pre konfiguráciu produktu. Viac informácií nájdete v https://wiki.teltonika.lt

For more information visit www.teltonika.lt

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

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