



# RUT240

User manual v2.0



Wiki knowledge base  
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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 9 VDC power adapter.

## SAFETY

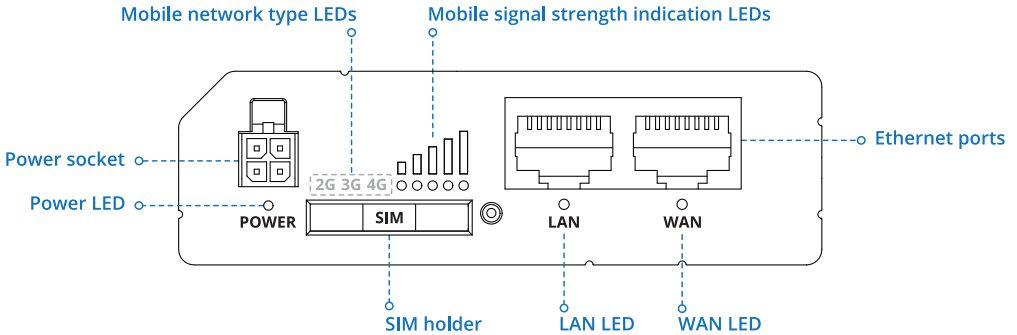
To avoid voltage caused traumas please follow these safety requirements:

- The device is intended to be powered from a Limited Power Source (LPS) that does not exceed 15 W in power consumption and the current rating of overcurrent protective device should not exceed 2 A.
- The highest transient overvoltage in the output (secondary circuit) of used PSU shall not exceed 36 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.
- To avoid mechanical damage to the device it is recommended to transport it packed in a damage-proof pack.

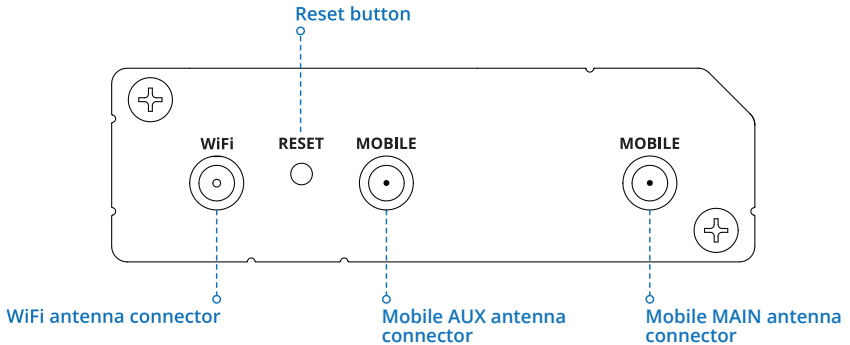
When using the device it should be placed so that its indicating LEDs would be visible as they inform in which working mode the device is in and if it has any working problems.

Protection against over current, short circuiting and earth faults should be provided as a part of the building installation.

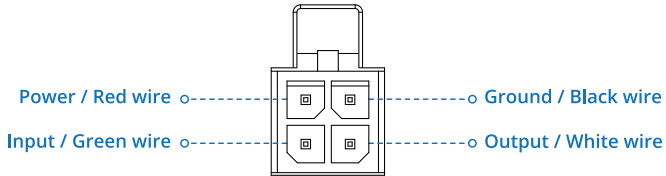
## FRONT VIEW



## BACK VIEW

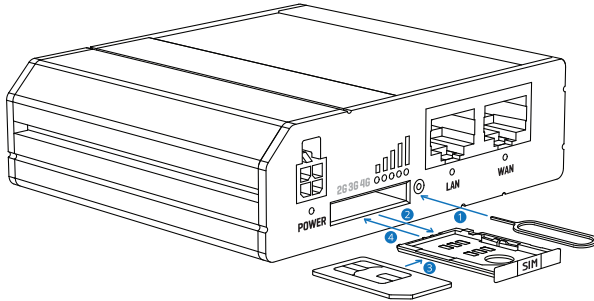


## POWER SOCKET PINOUT



## HARDWARE INSTALLATION

1. Push the SIM holder button with the SIM needle.
2. Pull out the SIM holder.
3. Insert your SIM card into the SIM holder.
4. Slide the SIM holder back into the router.
5. Attach LTE and WiFi antennas (max torque 0.9 Nm 8.0 in-lbs).
6. 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.
7. Connect to the device wirelessly (SSID: RUT240\_\*\*\*\* (unique to each device)) or use an Ethernet cable (connected to LAN port).



## LED INDICATIONS

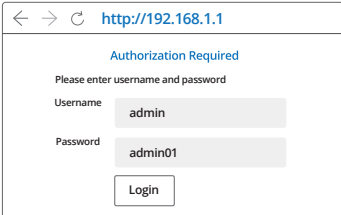
- Singal strength status LEDs turned on: the router is turning on.
- 2G, 3G and 4G LEDs constantly blinking every 1 sec.: no SIM or bad PIN.
- Blinking from 2G LED to 4G LED every 1 sec.: SIM holder not inserted.
- 2G/3G/4G LEDs blinking every 1 sec.: connected to 2G/3G/4G, but no data session established.
- 2G/3G/4G LED turned on: connected to 2G/3G/4G with data session.
- 2G/3G/4G LED blinking rapidly: connected to 2G/3G/4G with data session and data is being transferred.

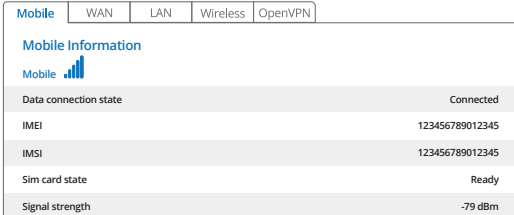
## SIGNAL STRENGTH LEDS

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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## SPECIFICATIONS

### HARDWARE

- High performance 400 MHz CPU with 64 MB of DDR2 memory
- 16 MB SPI Flash memory
- External SIM holder, 1 x SIM slot (Mini SIM – 2FF, 2st form factor)
- 4 pin DC connector with 1 x Digital input and 1 x Digital output
- Reset/restore to default button
- 2 x SMA for LTE, 1 x RP-SMA for WiFi antenna connectors
- 3 x connection type status LEDs, 5 x connection strength LEDs
- 2 x LAN status LEDs, 1 x Power LED
- Bottom and sideways DIN rail mounting slots

### ETHERNET

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

### Wi-Fi

- IEEE 802.11b/g/n WiFi standards
- Access Point (AP), Station (STA) modes
- WPA, WPA2, WPA&WPA2 encryption methods
- 2.401 – 2.495 GHz Wi-Fi frequency range\*
- 20 dBm max WiFi TX power
- SSID stealth mode and access control based on MAC address
- Up to 50 simultaneous connections
- Captive portal (Hotspot), internal/external Radius server
- Built in hotspot customizable landing page

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

## RADIO INFORMATION

Radio specifications	
RF technologies	GSM, GPRS, EDGE, UMTS/HSPA+, LTE, 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 WiFi antenna connector	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.

## ELECTRICAL, MECHANICAL & ENVIRONMENTAL

Dimensions (W x D x H)	83 mm x 74 mm x 25 mm
Weight	125 g
Power supply	100 - 240 VAC -> 9 VDC wall adapter
Input voltage range	9 - 30 VDC
Power consumption	< 5 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

## SAFETY INFORMATION

RUT240 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, TELNONIKA declares that this RUT240 is in compliance with the essential requirements and other relevant provisions of Directive CE/RED.
[BG] Bulgarian	С настоящето, TELNONIKA декларира, че RUT240 е в съответствие със съществените изисквания и другите приложими разпоредби на Директива CE/RED.
[CZ] Czech	TELNONIKA tímto prohlašuje, že RUT240 splňuje základní požadavky a všechna příslušná ustanovení Směrnice CE/RED.
[DE] German	Hiermit erklärt TELNONIKA dass sich das Gerät RUT240 in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie CE/RED befindet.
[DK] Danish	Undertegnede TELNONIKA erklærer herved, at følgende udstyr RUT240 overholder de væsentlige krav og øvrige relevante krav i direktiv CE/RED.
[EE] Estonian	Käesolevaga kinnitab TELNONIKA seadme RUT240 vastavust direktiivi CE/RED põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
[ES] Spanish	Por la presente, TELNONIKA declara que este RUT240 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva CE/RED.
[FI] Finnish	TELNONIKA vakuuttaa täten että RUT240 tyyppinen laite on direktiivin CE/RED oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[FR] French	TELNONIKA déclare que cette RUT240 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive CE /RED.
[GR] Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ ΤΗΣ ΤΕΛΝΟΝΙΚΑ ΔΗΛΩΝΕΙ ΟΤΙ ΡUT240 ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ CE/RED.
[HU] Hungarian	A TELNONIKA ezennel kijelenti, hogy a RUT240 típusú berendezés teljesíti az alapvető követelményeket és más CE/RED irányelvben meghatározott vonatkozó rendelkezéseket.
[IT] Italian	Con la presente TELNONIKA dichiara che questo RUT240 è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva CE/RED.
[LT] Lithuanian	Šiuo dokumentu UAB TELNONIKA deklaruoja, kad šis RUT240 atitinka esminius reikalavimus ir kitas CE/RED Direktyvos nuostatas.
[LV] Latvian	Ar šo TELNONIKA deklarē, ka RUT240 atbilst Direktīvas CE/RED būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
[NL] Dutch	Hierbij verklaart TELNONIKA dat het toestel I RUT240 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn CE/RED.
[NO] Norwegian	TELNONIKA Erklærer herved at RUT240 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv CE/RED.
[PL] Polish	Niniejszym TELNONIKA deklaruje że RUT240 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy CE/RED.
[PT] Portuguese	Eu, TELNONIKA declaro que o RUT240 cumpre os requisitos essenciais e outras provisões relevantes da Directiva CE/RED.
[RO] Romanian	Prin prezenta, TELNONIKA declară că aparatul RUT240 este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei CE/RED.
[SE] Swedish	Härmed intygar TELNONIKA att denna RUT240 är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv CE/RED.
[SI] Slovenian	TELNONIKA izjavlja, da je ta RUT240 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive CE/RED.

Declaration of Conformity (DoC) can be obtained by visiting <https://wiki.telnonika.lt/>



- [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]** Инструкции: 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 selaimen määräättää 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 οδηγών: 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 információt <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 nätadapter 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]** NávodZd 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](http://www.teltonika.lt)



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



Hereby, Teltonika declares that the radio equipment type RUT240 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/rut240/>