

QSG RUTM51

This Wiki page contains the online version of the **Quick Start Guide (QSG)** for the **RUTM51 Router**. Here you will find an overview of the various components on the front and back of a RUTM51 device, hardware installation instructions, first login information, device specifications, and general safety information. It is highly recommended to acquaint yourself with the Quick Start Guide before using the device. You can also locate a printed version of the Quick Start Guide in the packaging box of your device.

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Contents

- [1 Safety information](#)
 - [1.1 General](#)
 - [1.2 RF exposure](#)
 - [1.3 Operating conditions](#)
 - [1.4 Faulty and damaged products](#)
 - [1.5 Electrical safety](#)
 - [1.6 Product handling](#)

Safety information

Before starting operating the device, please review recommendations and precautions to minimize the possibility of accidents. Safety precautions presented are supplementary and subject to the local safety regulations. When various operations are executed on the device, the user must fully follow the safety instructions and recommendations provided with the device.

General

Radio specifications

RF technologies	3G, 4G, 5G, Wi-Fi 2.4 GHz: IEEE 802.11 b/g/n, Wi-Fi 5 GHz: IEEE 802.11 a/n/ac
Max RF power	24 dBm@WCDMA, 23 dBm@LTE, 23 dBm@5G, 20 dBm@WiFi 2.4G, 23 dBm@WiFi 5G, 13.98 dBm@WiFi 5.8G
	Bundled accessories specifications*
Power adapter	Input: 0.6 A@100-240 VAC, Output: 12 VDC, 1.5 A, 4-pin plug
Mobile antenna	617~960 / 1710~2690 / 3300~6000 MHz, 50 Ω, VSWR<3, gain** 4 dBi, omnidirectional, SMA male connector
WiFi antenna	2400~2500 MHz / 4950~5850 MHz, 50 Ω, VSWR<2, gain** 3 dBi, omnidirectional, RP-SMA male connector

* Order code dependant.

** 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.





RUTM51 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.

CE Declaration of Conformity

[BG] Bulgarian	С настоящето, TELTONIKA NETWORKS декларира, че RUTM51 е в съответствие със съществените изисквания и другите приложими разпоредби на Директива 2014/53/EU
[HR] Croatian	Ovim TELTONIKA NETWORKS izjavljuje da je ovaj RUTM51 u skladu s bitnim zahtjevima i ostalim relevantnim odredbama Direktive 2014/53/EU
[CZ] Czech	TELTONIKA NETWORKS tímto prohlašuje, že RUTM51 splňuje základní požadavky a všechna příslušná ustanovení Směrnice 2014/53/EU
[DK] Danish	Undertegnede TELTONIKA NETWORKS erklærer herved, at følgende udstyr RUTM51 overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU
[NL] Dutch	Hierbij verklaart TELTONIKA NETWORKS dat het toestel I RUTM51 in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU
[EE] Estonian	Käesolevaga kinnitab TELTONIKA NETWORKS seadme RUTM51 vastavust direktiivi 2014/53/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele
[FI] Finish	TELTONIKA NETWORKS vakuuttaa täten että RUTM51 tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen
[FR] French	TELTONIKA NETWORKS déclare que cette RUTM51 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU
[DE] German	Hiermit erklärt TELTONIKA NETWORKS, dass dieser RUTM51 den grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EU entspricht
[GR] Greek	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Ο ΚΑΤΑΣΚΕΥΑΣΤΗΣ TELTONIKA NETWORKS ΔΗΛΩΝΕΙ ΟΤΙ RUTM51 ΣΥΜΜΟΡΦΟΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU
[HU] Hungarian	A TELTONIKA NETWORKS ezzennel kijelenti, hogy a RUTM51 típusú berendezés teljesíti az alapvető követelményeket és más 2014/53/EU irányelvben meghatározott vonatkozó rendelkezéseket
[IE] Irish	Leis seo, dearbhaíonn TELTONIKA NETWORKS go gcomhlíonann an RUTM51 seo bunriachtanais agus forálacha ábhartha eile Threoir 2014/53/EU
[IT] Italian	Con la presente, TELTONIKA NETWORKS dichiara che questo RUTM51 è conforme ai requisiti essenziali e ad altre disposizioni pertinenti della Direttiva 2014/53/EU
[LV] Latvian	Ar šo TELTONIKA NETWORKS deklarē, ka RUTM51 atbilst Direktīvas 2014/53/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem
[LT] Lithuanian	Šiuo dokumentu UAB TELTONIKA NETWORKS deklaruoja, kad šis RUTM51 atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas

[MT] Maltese	Hawnhekk, TELTONIKA NETWORKS tiddikjara li dan l-RUTM51 huwa konformi mar-rekwiżiti essenzjali u dispozizzjonijiet rilevanti oħra tad Direttiva 2014/53/EU
[NO] Norwegian	TELTONIKA NETWORKS Erklærer herved at RUTM51 er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU
[PL] Polish	Niniejszym TELTONIKA NETWORKS deklaruje że RUTM51 jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy 2014/53/EU
[PT] Portuguese	Eu, TELTONIKA NETWORKS declaro que o RUTM51 cumpre os requisitos essenciais e outras provisões relevantes da Directiva 2014/53/EU
[RO] Romanian	Prin prezenta, TELTONIKA NETWORKS declară că aparatul RUTM51 este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei 2014/53/EU
[SK] Slovak	Spoločnosť TELTONIKA NETWORKS týmto vyhlasuje, že smerovač RUTM51 je v súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 2014/53/EU
[SI] Slovenian	TELTONIKA NETWORKS izjavlja, da je ta RUTM51 v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 2014/53/EU
[ES] Spanish	Por la presente, TELTONIKA NETWORKS declara que este RUTM51 cumple con los requisitos esenciales y otras exigencias relevantes de la Directiva 2014/53/EU
[SE] Swedish	Härmed intygar TELTONIKA NETWORKS att denna RUTM51 är i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU

Detailed compliance information is available at the following internet address: wiki.teltonika-networks.com/view/Certificates.

-  This sign means that it is necessary to read the User's Manual before you start using the device.
-  This sign on the package means that all used electronic and electric equipment should not be mixed with general household waste.
-  Hereby, TELTONIKA NETWORKS declares that this RUTM51 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://wiki.teltonika-networks.com/view/RUTM51_CE/RED
-  Hereby, TELTONIKA NETWORKS declares that the radio equipment type RUTM51 is in compliance with Radio Equipment Regulations 2017. The full text of the UK declaration of conformity is available at the following internet address: https://wiki.teltonika-networks.com/view/RUTM51_UKCA

RF exposure

This device meets the official requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by authorized agencies. The device must be used with a minimum separation of 20 cm from a person's body to ensure compliance with RF exposure guidelines. Failure to observe these instructions could

result in your RF exposure exceeding the applicable limits.

External antennas used with RUTM51 must be installed to provide a distance of at least 20 cm from any people and must not be co-located or operated in conjunction with any other antenna or transmitter.


Any external antenna gain must meet RF exposure and maximum radiated output power limits of the applicable rule section.

Operating Frequency / Maximum transmission power

	B1	1920-1980, 2110-2170 MHz, 24 dBm
WCDMA	B5 ¹	824-849, 869-894 MHz, 24 dBm
	B8	880-915, 925-960 MHz, 24 dBm
	B1	1920-1980, 2110-2170 MHz, 23 dBm
	B3	1710-1785, 1805-1880 MHz, 23 dBm
	B5 ¹	824-849, 869-894 MHz, 24 dBm
LTE-FDD	B7	2500-2570, 2620-2690 MHz, 24 dBm
	B8	880-915, 925-960 MHz, 23 dBm
	B20	832-862, 791-821 MHz, 23 dBm
	B28	703-748, 758-803 MHz, 23 dBm
	B38	2570-2620 MHz, 23 dBm
LTE-TDD	B40	2300-2400 MHz, 23 dBm
	B41 ²	2300-2400 MHz, 23 dBm
	n1	1920-1680, 2110-2170 MHz, 23 dBm
	n3	1710-1785, 1805-1880 MHz, 23 dBm
	n5 ¹	824-849, 869-894 MHz, 23 dBm
	n7	2500-2570, 2620-2690 MHz, 23 dBm
	n8	880-915, 925-960 MHz, 23 dBm
5G NR (SA, NSA)	n20	832-862, 791-821 MHz, 23 dBm
	n28	703-748, 758-803 MHz, 23 dBm
	n38	2570-2620 MHz, 23 dBm
	n40	2300-2400 MHz, 23 dBm
	n41	2496-2690 MHz, 26 dBm
	n77	3300-4200 MHz, 26 dBm
	n78	3300-3800 MHz, 26 dBm
	Wi-Fi 2.4 GHz	2412-2472 MHz, 20 dBm
	UNII-1 Band 1 5180-5240 MHz, 23 dBm	
Wi-Fi 5 GHz	UNII-2A Band 2	5260-5320 MHz, 30 dBm
	UNII-2C Band 3	5500-5700 MHz, 30 dBm
	UNII-3 Band 4	5745-5825 MHz, 13.98 dBm

¹ - Not supported in Europe region.

² - Not supported in Europe and Oceania regions.

 In all EU member states, operation of 5150-5350 MHz is restricted to indoor use only.

Operating conditions

- Operating temperature: -40° to +40° Celsius
- Humidity should be in the range of 10% to 90% (non-condensing). Only use the device in dry environments.
- Out of direct sunlight
- Away from heat source, corrosive substances, salts, and flammable gases

Attention: operation outside the permissible range can considerably shorten the service life of the device.

Faulty and damaged products

- Do not attempt to disassemble the device or its accessories.
- Only qualified personnel must service or repair the device or its accessories.
- If your device or its accessories have been submerged in water punctured or subjected to a severe fall, do not use until they have been checked at an authorized service center.

Electrical safety

- Only use approved accessories.
- Do not connect with incompatible products or accessories.
- It is recommended to ground devices with grounding terminals before connecting them to power. Failure to ground appropriately might result in a shock hazard. The cross-sectional area of the protective grounding conductor should be at least 1mm².

Product handling

- You alone are responsible for how you use your device and any consequences related to its use.
- Use of your device is subject to safety measures designed to protect users and their environment.
- Always treat your device and its accessories with care and keep it in a clean and dust-free place.
- Do not expose your device or its accessories to open flames, lit tobacco products, liquid, moisture, or high humidity.
- Do not drop, throw or try to bend your device or its accessories.
- Do not use harsh chemicals, cleaning solvents, or aerosols to clean the device or its accessories.
- Do not paint your device or its accessories.
- Do not attempt to disassemble your device (exemptions for devices that require disassembly for SIM insertion) or its accessories: it does not contain any user-serviceable parts. For safety reasons, the equipment should be opened only by qualified personnel.
- Make sure to use ESD personal protective equipment while the equipment is serviced.

- Do not use your device in an enclosed environment where heat dissipation is poor.
- Prolonged use in such space may cause excessive heat and raise ambient temperature, which will lead to the automatic shutdown of your device or the disconnection of the mobile network connection for your safety. To use your device again after such a shutdown, cool it in a well-ventilated place before turning it on.
- Please check all national laws and local regulations for the disposal of electronic products.
- Do not operate the device where ventilation is restricted.
- Do not use or install this product near water to avoid fire or shock hazards.
- Avoid exposing the equipment to rain or damp areas.
- Arrange power and Ethernet cables so that they are not likely to be stepped on or have items placed on them.
- Ensure that the voltage and the rated current of the power source match the device's requirements. Do not connect the device to an inappropriate power source.
- During a thunderstorm, no operations should be carried out on the device and cables.
- The unit must be powered off where blasting is in progress and explosive atmospheres are present or near medical life support equipment.
- Do not leave your device and its accessories within reach of small children or allow them to play with it. They could hurt themselves or others and could accidentally damage the device. Your device contains small parts with sharp edges that may cause an injury choking hazard.
- Like any wireless device, this device operates using radio signals, which cannot guarantee connection in all conditions. Therefore, you must never rely solely on any wireless device for emergency communications or otherwise use the device in situations where the interruption of data connectivity could lead to death, personal injury, property damage, data, or other loss.
- The device may become warm during regular use.