

Code: RUTX50

ACCESS POINT 5G +ROUTER **RUTX50** Dual SIM Wi-Fi 5, 2.4 GHz, 5 GHz, 867 Mbps Teltonika

The RUTX50 Wireless Router, operating in accordance with the IEEE 802.11 b/g/n/ac standard, allows to share a network connection between several users in areas that are covered by 3G/4G/5G signal. The RUTX50 router broadcasts 2 separate wireless networks in the 5 GHz band and in the 2.4 GHz band with a maximum speed of 867 Mb/s. The device is equipped with 5 Ethernet ports (4 x LAN + WAN), 1 configurable digital input/output, USB port, 2 SIM card slots and connectors for 5G/LTE, WiFi and GNSS (Global Navigation Satellite Systems) antennas. The device is compatible with IoT (Internet of Things) technology.

The router is managed by the RutOS operating system and supports industrial protocols such as Modbus, DLMS, DNP3, OPC UA, and is compatible with the RMS management system, enabling efficient remote and local management of the device. The **Teltonika RMS** application is dedicated to management.

The Teltonika RUTX50 router has a 4-pin industrial power socket and supports a wide range of power supply voltages.



Frequency range:	<p>WiFi :</p> <ul style="list-style-type: none"> • 2.4 GHz (2.400 ... 2.500 GHz) , • 5 GHz (4.950 ... 5.850 GHz) , <p>5G/4G/3G :</p> <ul style="list-style-type: none"> • 617 ... 960 MHz, • 1710 ... 2690 MHz, • 3300 ... 6000 MHz , <p>GNSS :</p> <ul style="list-style-type: none"> • 1575.42 ... 1602 MHz
Antenna type:	<ul style="list-style-type: none"> • 2 x Omnidirectional antenna Wi-Fi - 3 dBi (SMA-RP connector), • 4 x Omnidirectional antenna 5G/4G/3G - 4 dBi (SMA connector), • 1 x Omnidirectional antenna GNSS - 28 dB (SMA connector)
Standards:	<ul style="list-style-type: none"> • 2.4 GHz Wi-Fi : IEEE 802.11 b/g/n , • 5 GHz Wi-Fi : IEEE 802.11 a/n/ac, • 5G Sub-6 SA/NSA, LTE Cat. 20, 3G WCDMA • GNSS : GPS, GLONASS, BeiDou, Galileo, QZSS





DATA SHEET

Baud rates:	<ul style="list-style-type: none">• WiFi : max. 867 Mbps• 5G Sub-6 SA/NSA : 2.1 / 3.3 Gb/s DL 4x4 MIMO, 900 / 600 Mbps UL 2x2 MIMO,• 4G LTE : 2 Gb/s DL, 200 Mbps UL,• 3G : 42 Mbps DL, 5.76 Mbps UL
LAN ports:	4 x 10/100/1000 Mbps
WAN interface:	1 x 10/100/1000 Mbps
Transmitter power:	<ul style="list-style-type: none">≤ 20 dBm @ 2.4 GHz Wi-Fi≤ 23 dBm @ 5 GHz Wi-Fi≤ 23 dBm @ 5G≤ 23 dBm @ 4G+ LTE≤ 24 dBm @ 3G WCDMA
LED indicators:	<ul style="list-style-type: none">• Power• WiFi : 2.4, 5• WAN : SIM 1, SIM 2, WiFi, ETH• 3G, 4G, 5G, 3 x Signal indicator• 5 x Link/Act : 4 x LAN + WAN
Network type:	<ul style="list-style-type: none">• 5G NR NSA : n1/3/5/7/8/20/28/38/40/41/77• 5G NR SA : n1/3/5/7/8/20/28/38/40/41/77/78• 4G LTE-FDD: B1/3/5/7/8/20/28/32• 4G LTE-TDD: B38/40/41/42/43• 3G WCDMA: B1/5/8
LTE:	✓
QSS:	—
WDS:	—
SIM card slot:	2 x Mini SIM - 2FF
DDNS:	Support > 25
DHCP server:	✓
Port USB:	USB 2.0
Protections:	<ul style="list-style-type: none">• WPA2-Enterprise - PEAP, WPA2-PSK, WPA-EAP, WPA-PSK, WPA3-SAE, WPA3-EAP, OWE, AES-CCMP, TKIP, EAP-TLS• Auto Cipher modes• Client separation• SSID hiding• Firewall• DDOS, SYN, SSH, HTTP/HTTPS attack defense• Configurable, independent data limits for each SIM card• Black list / White list• MAC addresses filtering • Protection against the effects of reverse polarity power connection• Overvoltage protection > 51 V DC / 10 μs
Management interface:	Web browser, Teltonika RMS application, SMS
Default IP address:	192.168.1.1
Operating system:	RutOS (Linux OS based)
Firmware update:	✓

Main features:	<ul style="list-style-type: none"> • Dual SIM • MU-MIMO - a multi-antenna transmission function that allows to increase the bandwidth and reliability of connection with the client of the network • Support for Mesh technology • Checking the fast roaming function - in accordance with the IEEE 802.11r standard (only if used access points support this function) • Seamless Roaming - 802.11k/v roaming function switches clients automatically to the AP with the optimal signal with a seamless transition when moving. This allows sensitive applications like VoIP and video conferences to go uninterrupted, • Compliance with the Modbus, DLMS, DNP3, OPC UA protocol • MDI/MDI-X auto detection feature - auto detecting the data transmission mode • Static / dynamic routing • Support for VoIP technology, • Ability to work as a Hotspot • View topology and network status • WMM support (QoS mechanism of the 802.11e standard) • DHCP Relay support • VLAN support • VPN networks: IPsec VPN, L2TP VPN, PPTP VPN, Open VPN • Compliance with the MQTT protocol • SNMP v1/v2/v3/Trap • WAN Connection Backup - thanks to the fully functional WAN / LAN port, you can use various types of backup connections, including cable, fiber and DSL modems • Support for IoT (Internet of Things) systems, • Configuration using the Teltonika RMS application • Durable aluminum housing • Shock-proof • Industrial wide temperature design. • RESET button • Port USB 2.0 - possibility to connect external HDD, flash drive, additional modem, printer, USB-serial adapter • 4-pin industrial power socket, • Wide range of supported supply voltages, • 1 digital input / output - ability to set certain I/O conditions to initiate event • Grounding • "Index of Protection" : IP30 • Ethernet cable included
Power supply:	<ul style="list-style-type: none"> • 12 V DC / 1.5 A (power adapter included) • 9 ... 50 V DC • 9 ... 50 V DC - Passive PoE, Powering from LAN1
Power consumption:	≤ 18 W
Operation temp:	-40 °C ... 75 °C
Permissible relative humidity:	10 % ... 90 % (non-condensing)
Weight:	0.53 kg
Dimensions:	132 x 103 x 44 mm
Manufacturer / Brand:	Teltonika
Guarantee:	2 years