

RUTX10

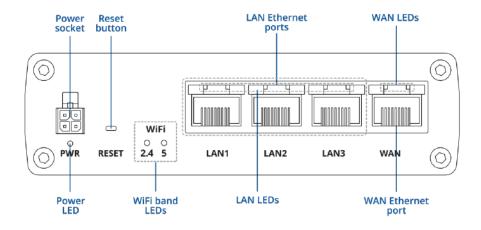
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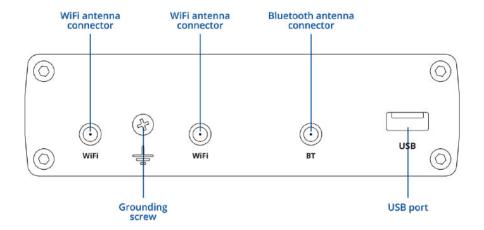


HARDWARE

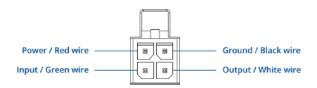
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

Ethernet

WAN	1 x WAN port 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
LAN	3 x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
Wireless	
Wireless mode	802.11b/g/n/ac Wave 2 (Wi-Fi 5) with data transmission rates up to 867 Mbps (Dual Band, MU-MIMO), 802.11r fast transition, Access Point (AP), Station (STA)
Wi-Fi security	WPA2-Enterprise: PEAP, WPA2-PSK, WPA-EAP, WPA-PSK, WPA3-SAE, WPA3-EAP, OWE; AES-CCMP, TKIP, Auto-cipher modes, client separation, EAP-TLS with PKCS#12 certificates, disable auto-reconnect, 802.11w Protected Management Frames (PMF)
SSID/ESSID	ESSID stealth mode
Wi-Fi users	Up to 150 simultaneous connections
Wireless Connectivity Features	Wireless mesh (802.11s), fast roaming (802.11r), Relayd, BSS transition management (802.11v), radio resource measurement (802.11k)
Wireless MAC filter	Whitelist, blacklist
Wireless QR code generator	Once scanned, a user will automatically enter your network without needing to input login information.





Security

SSL certificate generation	Let's encrypt support
802.1x	Port-based network access control client
Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, IP & login attempts block, time-based login blocking, built-in random password generator
Firewall	Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T
Attack prevention	DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)
VLAN	Port and tag-based VLAN separation
WEB filter	Blacklist for blocking out unwanted websites, Whitelist for specifying allowed sites only
Access control	Flexible access control of SSH, Web interface, CLI and Telnet
Bluetooth	
Bluetooth 4.0	Bluetooth low energy (LE) for short range communication



Network

Network protocols TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake O Lan (WOL), VXLAN VolP passthrough support H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VolP packets Connection monitoring Ping Reboot, Wget Reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forward, traffic rules, custom rules, TTL target customisation Firewall status page View all your Firewall statistics, rules, and rule counters Ports management View device ports, enable and disable each of them, turn auto-configuration on or change their transmission speed, and so on Network topology Visual representation of your network, showing which devices are connected to w other devices Captive portal (hotspot), internal/external Radius server, Radius MAC authentication, SMS authorisation, SSO authentication, internal/external landing page, walled gard user scripts, URL parameters, user groups, individual user or group limitations, use management, 9 default customisable themes and optionality to upload and downlocustomised hotspot themes DHCP Static and dynamic IP allocation, DHCP relay, DHCP server configuration, status, static leases: MAC with wildcards QoS / Smart Queue Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WMM, 802:11e DDNS Supported >25 service providers, others can be configured manually DNS over HTTPS DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS		
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Ping Reboot, Wget Reboot, Periodic Reboot, LCP and ICMP for link inspection Firewall Port forward, traffic rules, custom rules, TTL target customisation Firewall status page View all your Firewall statistics, rules, and rule counters Ports management View device ports, enable and disable each of them, turn auto-configuration on or change their transmission speed, and so on Network topology Visual representation of your network, showing which devices are connected to wother devices Hotspot Captive portal (hotspot), internal/external Radius server, Radius MAC authentication SMS authorisation, SSO authentication, internal/external landing page, walled gard user scripts, URL parameters, user groups, individual user or group limitations, use management, 9 default customisable themes and optionality to upload and downlocustomised hotspot themes DHCP Static and dynamic IP allocation, DHCP relay, DHCP server configuration, status, static leases: MAC with wildcards Qos / Smart Queue Management (SQM) Tarffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e DDNS Supported > 25 service providers, others can be configured manually DNS over HTTPS DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS Network backup Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic Failor and parameters and providers are supported. VRF support Initial virtual routing and forwarding (VRF) support	Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake On Lan (WOL), VXLAN
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VRF support Initial virtual routing and forwarding (VRF) support	Load balancing	Balance Internet traffic over multiple WAN connections
	SSHFS	Possibility to mount remote file system via SSH protocol
Traffic Management Real-time monitoring, wireless signal charts, traffic usage history	VRF support	Initial virtual routing and forwarding (VRF) support
	Traffic Management	Real-time monitoring, wireless signal charts, traffic usage history



VPN

OpenVPN	Multiple clients and a server can run simultaneously, 27 encryption methods
OpenVPN Encryption	DES-CBC 64, RC2-CBC 128, DES-EDE-CBC 128, DES-EDE3-CBC 192, DESX-CBC 192, BF-CBC 128, RC2-40-CBC 40, CAST5-CBC 128, RC2-64-CBC 64, AES-128-CBC 128, AES-128-CFB 128, AES-128-CFB1 128, AES-128-CFB8 128, AES-128-OFB 128, AES-128-GCM 128, AES-192-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-192-CBC 192, AES-192-GCM 192, AES-256-GCM 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-CBC 256
IPsec	XFRM, IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES192GCM12, AES256GCM12, AES128GCM16, AES192GCM16, AES256GCM16)
GRE	GRE tunnel, GRE tunnel over IPsec support
PPTP, L2TP	Client/Server instances can run simultaneously, L2TPv3, L2TP over IPsec support
Stunnel	Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program's code
DMVPN	Method of building scalable IPsec VPNs, Phase 2 and Phase 3 and Dual Hub support
SSTP	SSTP client instance support
ZeroTier	ZeroTier VPN client support
WireGuard	WireGuard VPN client and server support
Tinc	Tinc offers encryption, authentication and compression in it's tunnels. Client and server support.
Tailscale	Tailscale offers speed, stability, and simplicity over traditional VPNs. Encrypted point-to-point connections using the open source WireGuard protocol
OPC UA	
Supported modes	Client, Server
Supported connection types	TCP
MODBUS	
Supported modes	Server, Client
Supported connection types	TCP, USB
Custom registers	MODBUS TCP custom register block requests, which read/write to a file inside the router, and can be used to extend MODBUS TCP Client functionality
Supported data formats	8-bit: INT, UINT; 16-bit: INT, UINT (MSB or LSB first); 32-bit: float, INT, UINT (ABCD (big-endian), DCBA (little-endian), CDAB, BADC), HEX, ASCII



DATA TO SERVER

HTTP(S), MQTT, Azure MQTT, Kinesis
Extract parameters from multiple sources and different protocols, and send them all to a single server; Custom LUA scripting, allowing scripts to utilize the router's Data to server feature
Allows sending commands and receiving data from MODBUS Server through MQTT broker
Station, Outstation
TCP, USB
DLMS - standard protocol for utility meter data exchange
Client
TCP, USB
Expand your device's possibilities by using a set of configurable API endpoints to retrieve or change data. For more information, please refer to this documentation: https://developers.teltonika-networks.com
HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, multiple event log servers, firmware update availability notifications, event log, system log, kernel log, Internet status
Firmware update from server, automatic notification
SSH (v1, v2)
OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
MQTT Broker, MQTT publisher
SNMP (v1, v2, v3), SNMP Trap, Brute force protection
Management API over HTTP/HTTPS
Teltonika Remote Management System (RMS)



IoT Platforms

IoT Platforms	
ThingWorx	Allows monitoring of: WAN Type, WAN IP
Cumulocity - Cloud of Things	Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP. Has reboot and firmware upgrade actions
Azure IoT Hub	Can be configured with Data to Server to send all the available parameters to the cloud. Has Direct method support which allows to execute RutOS API calls on the IoT Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT Hubs
System Characteristics	
СРИ	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH storage	256 MB, SPI Flash
Firmware / Configuration	
WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup
FOTA	Update FW
RMS	Update FW/configuration for multiple devices at once
Keep settings	Update FW without losing current configuration
Factory settings reset	A full factory reset restores all system settings, including the IP address, PIN, and use data to the default manufacturer's configuration
FIRMWARE CUSTOMISATION	
Operating system	RutOS (OpenWrt based Linux OS)
Supported languages	Busybox shell, Lua, C, C++, and Python, Java in Package manager
Development tools	SDK package with build environment provided
GPL customization	You can create your own custom, branded firmware and web page application by changing colours, logos, and other elements in our firmware to fit your or your clients' needs
Package Manager	The Package Manager is a service used to install additional software on the device
Location Tracking	
NTRIP	NTRIP protocol (Networked Transport of RTCM via Internet Protocol)





USB

Data rate	USB 2.0
Applications	Samba share, USB-to-serial
External devices	Possibility to connect external HDD, flash drive, additional modem, printer, USB-serial adapter
Storage formats	FAT, FAT32, exFAT, NTFS (read-only), ext2, ext3, ext4
Input / Output	
Input	1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high
Output	1 x Digital Output, Open collector output, max output 30 V, 300 mA
Events	Email, RMS
I/O juggler	Allows to set certain I/O conditions to initiate event
Power	
Connector	4-pin industrial DC power socket
Input voltage range	9 - 50 VDC, reverse polarity protection, voltage surge/transient protection
PoE (passive)	Possibility to power up through LAN1 port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 50 VDC
Power consumption	9 W Max
Physical Interfaces	
Ethernet	4 x RJ45 ports, 10/100/1000 Mbps
I/O's	1 x Digital Input, 1 x Digital Output on 4-pin power connector
Status LEDs	8 x LAN status LEDs, 1 x Power LED, 2 x 2.4G and 5G Wi-Fi LEDs
Power	1 x 4-pin power connector
Antennas	2 x RP-SMA for Wi-Fi, 1 x RP-SMA for Bluetooth
USB	1 x USB A port for external devices
Reset	Reboot/User default reset/Factory reset button
Other	1 x Grounding screw



Physical Specification

Casing material	Aluminium housing
Dimensions (W x H x D)	115 x 32.2 x 95.2 mm
Weight	355 g
Mounting options	DIN rail, wall mount, flat surface (all require additional kit)
Operating Environment	
Operating temperature	-40 °C to 75 °C
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30
Regulatory & Type Approvals	
Regulatory	CE, UKCA, EAC, UCRF, CITC, ICASA, ANRT, FCC, IC, PTCRB, RCM, IMDA, SIRIM, NTC, E-mark, Railway, UL/CSA Safety, CB
Regulatory	CE, UKCA, EAC, UCRF, CITC, ICASA, ANRT, FCC, IC, NOM, UL/CSA Safety, Anatel, Giteki, CB
EMC Emissions & Immunity	
Standards	EN 55032:2015 + A11:2020
	EN 55035:2017 + A11:2020
	EN 301 489-1 V2.2.3
	EN 301 489-3 V2.1.2
	EN 301 489-17 V3.2.4
Radiated Immunity	EN IEC 61000-4-3:2006 + A1:2008 + A2:2010
EFT	EN 61000-4-4:2012
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014 + A1:2017
cs	EN 61000-4-6:2014
DIP	EN 61000-4-11:2004
RF	
Standards	EN 300 328 V2.2.2
	EN 301 893 V2.1.1
	EN 300 440 V2.2.1





Safety

CE: EN IEC 62368-1:2020 + A11:2020, EN 62311:2020

RCM: AS/NZS 62368.1:2022 **CB**: IEC 62368-1:2018



ORDERING

STANDARD PACKAGE*

- Router RUTX10
- 18 W PSU
- 2x Wi-Fi antennas (swivel, RP-SMA male)
- 1x Bluetooth antenna (magnetic mount, RP-SMA male, 1.5 m cable)
- Ethernet cable (1.5 m)
- QSG (Quick Start Guide)
- Packaging box

For more information on all available packaging options - please contact us directly.

CLASSIFICATION CODES

HS Code: 851762 **HTS:** 8517.62.00

AVAILABLE VERSIONS

RUTX10 *****

N/A RUTX10000000 / Standard package with EU PSU

RUTX10000200 / Standard package with US PSU RUTX10000300 / Standard package with UK PSU RUTX10000400 / Standard package with AU PSU

RUTX10000B00 / Standard package with Power cable with 4-way screw

terminal

RUTX10000C00 / Mass packing code

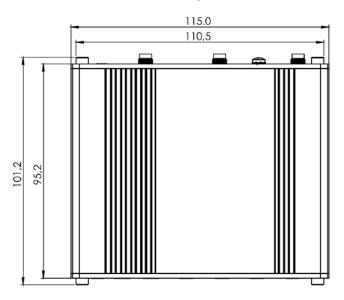
^{*}Standard package contents may differ based on standard order codes.



RUTX10 SPATIAL MEASUREMENTS

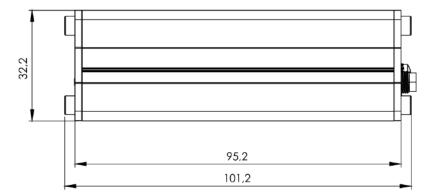
TOP VIEW

The figure below depicts the measurements of device and its components as seen from the top:



RIGHT VIEW

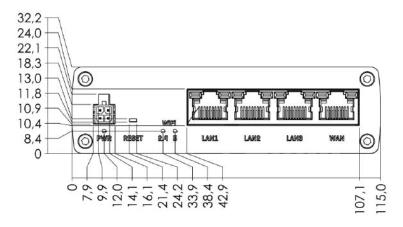
The figure below depicts the measurements of device and its components as seen from the right side:





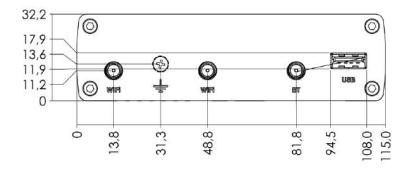
FRONT VIEW

The figure below depicts the measurements of device and its components as seen from the front panel side:



REAR VIEW

The figure below depicts the measurements of device and its components as seen from the back panel side:





MOUNTING SPACE REQUIREMENTS

The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:

