RUTXR1

ROUTER SFP/LTE EMPRESARIAL PARA MONTAJE EN BASTIDOR



Energy & utilities

Enterprise

Industrial & automation

Retail

Smart city

4G LTE CAT 6

Velocidades celulares de hasta 300 Mbps con agregación de portadoras

SFP

Puerto SFP para comunicación de fibra óptica de largo alcance

WI-FI

Wi-Fi 802.11ac de doble banda Wave-2

POTENCIA DUAL

La compatibilidad con fuentes de alimentación dobles garantiza un servicio ininterrumpido

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Mobile

Mobile module	4G LTE Cat 6 up to 300 DL/ 50 UL Mbps; 3G up to 42 DL/ 5.76 UL Mbps
3GPP Release	Release 11
SIM switch	2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail, SIM idle protection
Status	IMSI, ICCID, operator, operator state, data connection state, network type, CA indicator, bandwidth, connected band, signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, data sent/received, LAC, TAC, cell ID, ARFCN, UARFCN, EARFCN, MCC, and MNC
SMS	SMS status, SMS configuration, EMAIL to SMS, SMS to EMAIL, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP
USSD	Supports sending and reading Unstructured Supplementary Service Data messages
Block/Allow list	Operator block/allow list (by country or separate operators)
Multiple PDN	Possibility to use different PDNs for multiple network access and services
Band management	Band lock, Used band status display
SIM idle protection service	Provides the possibility to configure the router to periodically switch to the unused SIM card and establish a data connection in order to prevent the SIM card from being blocked
SIM PIN code management	SIM PIN code management enables setting, changing, or disabling the SIM card's PIN
APN	Auto APN
Bridge	Direct connection (bridge) between mobile ISP and device on LAN
Passthrough	Router assigns its mobile WAN IP address to another device on LAN

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	SSID stealth mode and access control based on MAC address
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	Allowlist, blocklist
Wireless QR code generator	Once scanned, a user will automatically enter your network without needing to input login information
TravelMate	Forward Wi-Fi hotspot landing page to a subsequent connected device

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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
Fibre	1 x SFP port (cannot work simultaneously with Ethernet WAN port)
LAN	4 x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover

Network	
Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), Policy based routing
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
VoIP passthrough support	H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP 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
Port management	View device ports, enable and disable each of them, turn auto-configuration on or off, change their transmission speed, and so on
Network topology	Visual representation of your network, showing which devices are connected to which other devices
Hotspot	Captive portal (hotspot), internal/external Radius server, Radius MAC authentication, SMS authorisation, SSO authentication, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customisable themes and optionality to upload and download customised 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 >77 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, Mobile, Fiber, VRRP, Wired options, each of which can be used as an automatic Failover
Load balancing	Balance Internet traffic over multiple WAN connections
SSHFS	Possibility to mount remote file system via SSH protocol
VRF support	Initial virtual routing and forwarding (VRF) support
Traffic Management	Real-time monitoring, wireless signal charts, traffic usage history

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Security	
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	Preconfigured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI, DMZ, NAT, NAT-T, NAT64
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
Mobile quota control	Mobile data limit, customizable period, start time, warning limit, phone number
WEB filter	Block list for blocking out unwanted websites, allow list for specifying allowed sites only
Access control	Flexible access control of SSH, Web interface, CLI and Telnet
Certificate Manager	Certificate creation tool allows to create CA, server, client, let's encrypt, SCEP certificates

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-CFB1 192, AES-192-CFB8 192, AES-192-OFB 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-OFB 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

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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	
Protocol	HTTP(S), MQTT, Azure MQTT
Data to server	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

MQTT Gateway	
Modbus MQTT Gateway	Allows sending commands and receiving data from MODBUS Server through MQTT broker

DNP3	
Supported modes	Station, Outstation
Supported connection	TCP, USB

DLMS/COSEM	
DLMS Support	DLMS - standard protocol for utility meter data exchange
Supported modes	Client
Supported connection types	TCP, USB

API	
Teltonika Networks Web API (beta) support	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

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Monitoring & Management	
WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, multiple event log servers, firmware update availability notifications, event log, system log, kernel log, Internet status
FOTA	Firmware update from server, automatic notification
SSH	SSH (v1, v2)
Email	Receive email message status alerts of various services
SMS	SMS status, SMS configuration
Call	Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer, Wi-Fi on/off
TR-069	OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem
MQTT	MQTT Broker, MQTT publisher
SNMP	SNMP (v1, v2, v3), SNMP Trap, Brute force protection
JSON-RPC	Management API over HTTP/HTTPS
RMS	Teltonika Remote Management System (RMS)

IoT Platforms	
ThingWorx	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
Cumulocity - Cloud of Things	Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength. 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
AWS IoT Core	Utility to interact with the AWS cloud platform. Jobs Support: Call the device's API using AWS Jobs functionality

System Characteristics	
CPU	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH storage	256 MB, SPI Flash

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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 user 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

Power	
Connector	2 x 4-pin industrial DC power sockets for main and redundancy power source
Input voltage range	9 - 50 VDC, reverse polarity protection, voltage surge/transient protection
Power consumption	Idle: < 3W, max: 18W

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Physical Interfaces	
Ethernet	5 x RJ45 ports, 10/100/1000 Mbps
Status LEDs	2 x WAN type, 2 x Mobile connection type, 3 x Mobile signal strength, 2 x active SIM, 10 x Ethernet status, 2 x Console status, 2 x Power
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders
Power	2 x 4-pin DC connector
Antennas	2 x SMA for LTE, 2 x RP-SMA for Wi-Fi
USB	1 x USB A port for external devices
Reset	Reboot/User default reset/Factory reset button
Grounding	1 x Grounding screw, 1 x lock
Fibre	1 x SFP port

Physical Specification	
Casing material	Full steel housing
Dimensions (W x H x D)	272 x 42.6 x 122.6 mm
Weight	1093 g
Mounting options	Rack mounting kit

Operating Environment	
Operating temperature	-40 °C to 75 °C
Operating humidity	10% to 90% non-condensing

Regulatory & Type Approvals	
Regulatory	CE, UKCA, EAC, UCRF, CITC, ANRT, RCM, NTC, CB, ETA-WPC

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EMC Emissions & Immunity

Standards	EN 55032:2015 + A11:2020 EN 55035:2017 + A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013 + A1:2019 EN 301 489-1:V2.2.3 EN 301 489-3:V2.1.1 EN 301 489-17:V3.2.4 Draft EN 301 489-52:V1.1.2
ESD	EN 61000-4-2:2009
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 IEC 61000-4-11:2020

RF

Standards	EN 300 328:V2.2.2 EN 301 893:V2.1.1 EN 300 440:V2.2.1 EN 301 908-1:V13.1.1 EN 301 908-2:V13.1.1 EN 301 908-13:V13.1.1

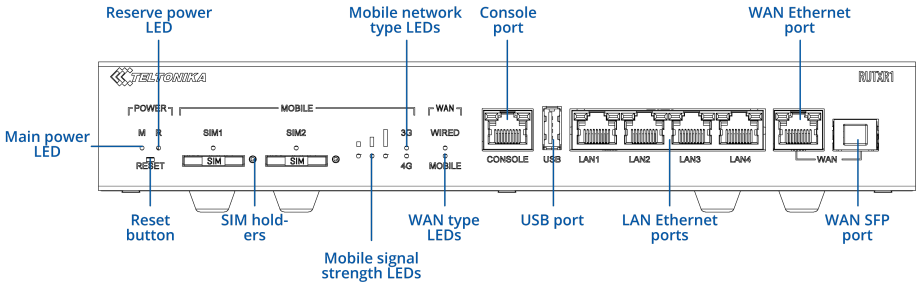
Safety

Standards	**CE**: EN 62368-1:2014 + A11:2017, EN 62232:2017, EN 50385:2017 **UL/CSA Safet**y: UL 62368-1 (3rd Ed., Rev. December 13, 2019), CAN/CSA C22.2 No. 62368-1:19 (3rd Ed., Rev. December 13, 2019) **CB**: IEC 62368-1:2018

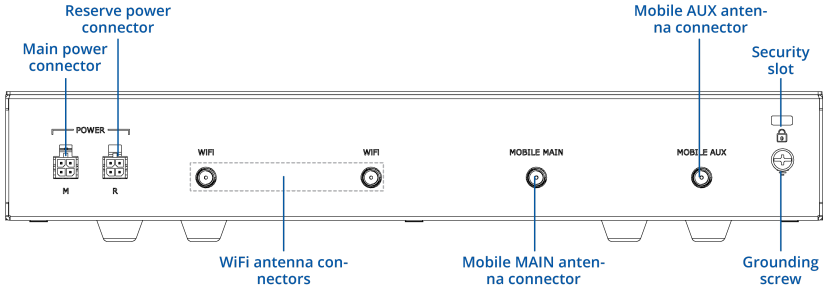
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Hardware

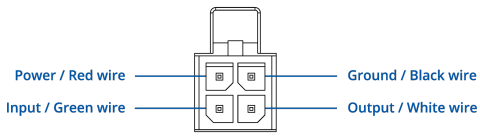
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT



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Ordering

Standard package*



RUTXR1



18W PSU



2 X MOBILE MAGNETIC SMA ANTENNAS



2 x WI-FI DUAL-BAND MAGNETIC SMA ANTENNAS



RACK MOUNTING KIT



SIM ADAPTER KIT



ETHERNET CABLE 1.5 M



QUICK START GUIDE

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

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

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Classification codes

HS Code: 851762
HTS: 8517.62.00

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

Available versions

Hardware version	Supported frequencies	Standard order code / Package Contains
RUTXR1 **3***** Europe[3], The Middle East[3], Africa, Oceania, Brazil	**4G (LTE-FDD)**: B1, B3, B5, B7, B8, B20, B28, B32 **3G**: B1, B3, B5, B8	RUTXR1300000 / Standard package with EU PSU RUTXR1300100 / Standard package with AU PSU RUTXR1300200 / Standard package with UK PSU RUTXR1300400 / Standard package with power cable (4-way screw terminal)

El precio y los plazos de entrega de las versiones específicas para cada región (operador) pueden variar. Para más información, póngase en contacto con nosotros.

1 - LTE-FDD B29 y B32 sólo admiten Rx, y en 2×CA es sólo para portadora de componente secundario
2 - Excluidos Japón y CMCC
3 - Disponibilidad regional - excluidos Rusia, Bielorrusia e Irán

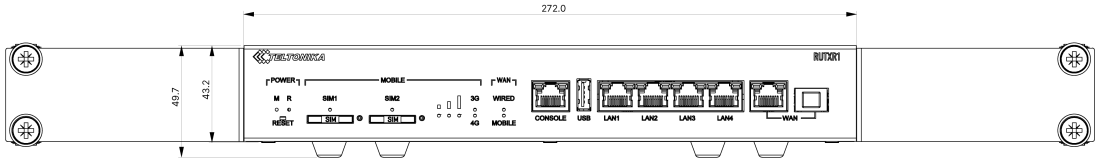
RUTXR1 spatial measurements

Available versions	
Device housing (W x H x D)*	272 x 42.6 x 122.6 mm
Box (W x H x D):	355 x 175 x 60 mm
	*Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below

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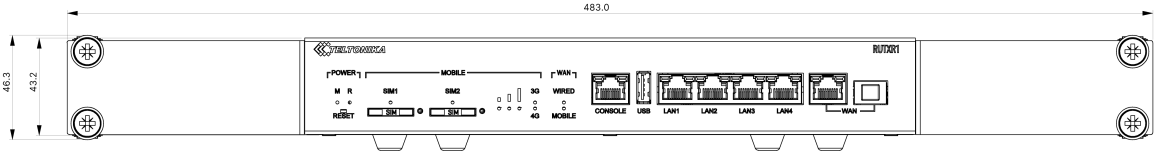
FRONT VIEW, DESK CONFIGURATION

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



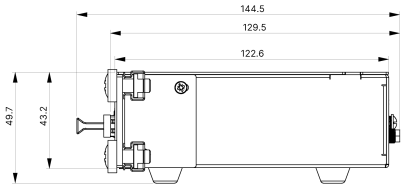
FRONT VIEW, RACK CONFIGURATION

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



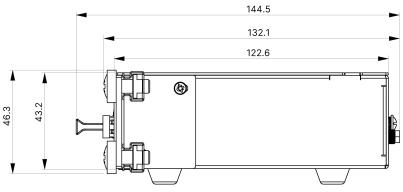
RIGHT VIEW, DESK CONFIGURATION

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



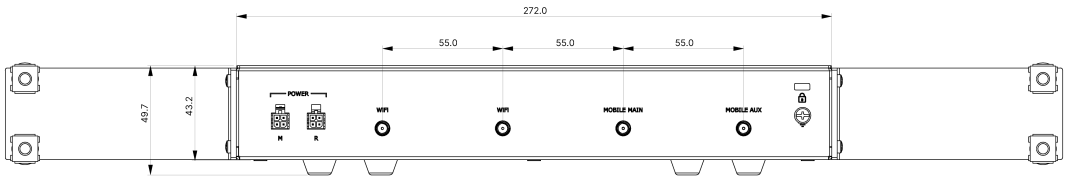
RIGHT VIEW, RACK CONFIGURATION

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



REAR VIEW, DESK CONFIGURATION

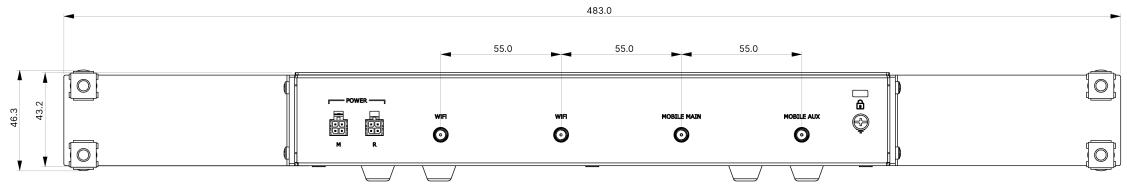
The figure below depicts the measurements of device and its components as seen from the back panel side:



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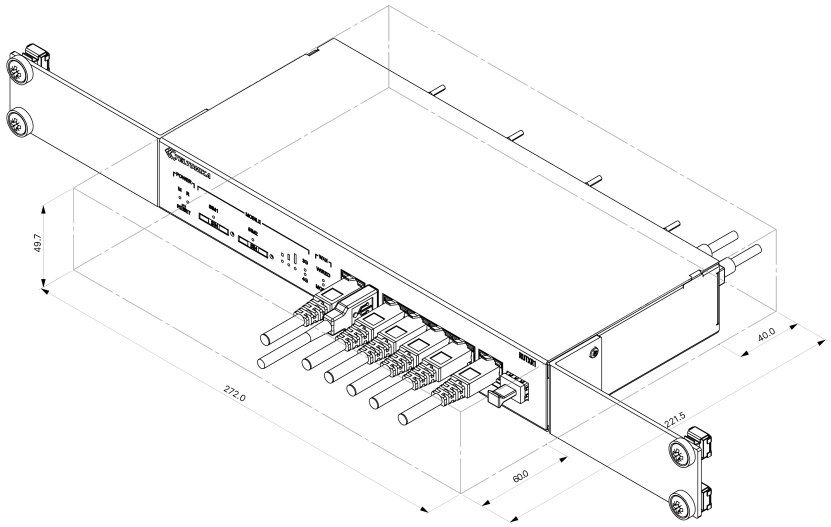
REAR VIEW, RACK CONFIGURATION

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



MOUNTING SPACE , DESK CONFIGURATION

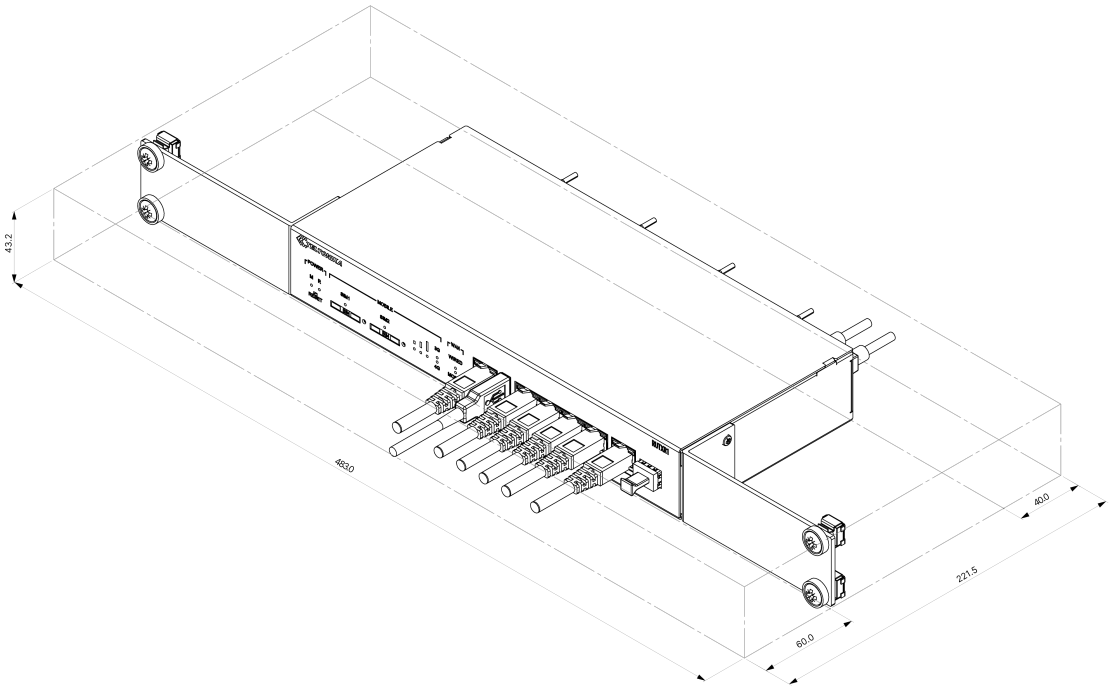
The figure below depicts an approximation of the device's dimensions when cables and antennas are attached:



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MOUNTING SPACE , RACK CONFIGURATION

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



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RMS

REMOTE MANAGEMENT SYSTEM



UNIFIED ENTERPRISE CONTROL. SIMPLIFIED.

One Integrated Ecosystem

Your complete networking solution: TAP Access Points, SWM/TSW Switches, and the power of RMS – all working together on one secure platform.

– Vendor-Neutral Management: RMS manages Teltonika and 3rd-Party networking devices from a single platform.

– No Hardware Controllers: Save cost and complexity. Manage everything through RMS or local OS.

– Enterprise OS: RutOS & TswOS come with built-in VPN, VLAN/QoS, enhanced security, and powerful automation tools.

Unmatched Remote power

– RMS Access Included: Get two years of free remote monitoring and configuration immediately upon purchase.

– Interactive Network Map: Visual 2D topology for faster diagnostics and configuration directly from the map.

– Extend Your Reach: Securely access any device behind your network through RMS Connect (cameras, PLCs, servers, etc.) extending management beyond our hardware.

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