

RUTX09

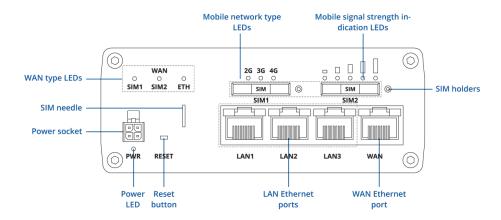
v1.2



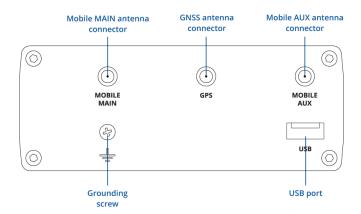


HARDWARE

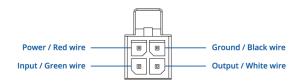
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

Mobile

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 12
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, send/read SMS via HTTP POST/GET, 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
Black/White list	Operator black/white 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	When working with devices with two SIM slots, the one not currently in use will remain idle until the device switches to it, meaning that no data is used on the card until then
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
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



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
Ports 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 >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, Mobile, 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



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	Blacklist for blocking out unwanted websites, Whitelist for specifying allowed sites only	
Access control	Flexible access control of SSH, Web interface, CLI and Telnet	
SSL certificate generation	Let's Encrypt and SCEP certificate generation methods	



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-CFB 128, AES-128-CFB 128, AES-128-CFB 128, AES-128-CFB 128, AES-128-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-192-CFB 192, AES-256-CFB 256, AES-256-CFB 256, AES-256-CFB 256, AES-256-CBC 256	
IPsec	XFRM, IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, 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

Protocol HTTP(S), MQTT, Azure MQTT, Kinesis	
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	
DLMS Support	DLMS - standard protocol for utility meter data exchange
Supported modes	Client
Supported connection types	TCP, USB
COSEM	Allows to scan meter COSEM objects for automatic detection and configuration
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



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)
SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET
Call	Reboot, Status, Mobile data on/off, Output on/off, answer/hang-up with a timer, Wi-Fon/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	
СРИ	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH storage	256 MB, SPI Flash



Firmware ,	/ Configu	uration
riiiiwaie	/ Commy	ai atioii

Timware / Comiguration	
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++
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	
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Coordinates	GNSS coordinates via WebUI, SMS, TAVL, RMS
NMEA	NMEA 0183
NTRIP	NTRIP protocol (Networked Transport of RTCM via Internet Protocol)
Server software	Supported server software TAVL, RMS
Geofencing	Configurable multiple geofence zones
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



	Output
inniit /	CHITCHIT
IIIPGC/	Output

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 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reset Reboot/User default reset/Factory reset button		
Events Email, RMS, SMS 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 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reboot/User default reset/Factory reset button	Input	1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high
I/O juggler	Output	1 x Digital Output, Open collector output, max output 30 V, 300 mA
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 1x Digital Input, 1 x Digital Output on 4-pin power connector Status LEDs 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reboot/User default reset/Factory reset button	Events	Email, RMS, SMS
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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 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reboot/User default reset/Factory reset button	Power	
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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 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reset Reboot/User default reset/Factory reset button	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
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 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reset Reboot/User default reset/Factory reset button	Power consumption	9 W Max
I/O's 1 x Digital Input, 1 x Digital Output on 4-pin power connector 3 x WAN type, 2 x Mobile connection type, 5 x Mobile connection strength, 8 x LAN status, 3 x WAN status, 1x Power SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1 x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1 x USB A port for external devices Reboot/User default reset/Factory reset button	Physical Interfaces	
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SIM 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders Power 1x 4-pin power connector Antennas 2 x SMA for LTE, 1 x SMA for GNNS USB 1x USB A port for external devices Reset Reboot/User default reset/Factory reset button	I/O's	1 x Digital Input, 1 x Digital Output on 4-pin power connector
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USB 1 x USB A port for external devices Reset Reboot/User default reset/Factory reset button	Power	1 x 4-pin power connector
Reset Reboot/User default reset/Factory reset button	Antennas	2 x SMA for LTE, 1 x SMA for GNNS
·	USB	1 x USB A port for external devices
Other 1 x Grounding screw	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 44.2 x 95.1 mm
Weight	455 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, ANRT, ICASA, NOM, RCM, IMDA, NTC, E-mark, UL/CSA Safety, CB, RoHS, REACH
Operator	Deutsche Telekom AG
EMC Emissions & Immunity	
Standards	EN 55032:2015 + A11:2020 EN 55035:2017 + A11:2020 EN 301 489-1 V2.2.3 Draft EN 301 489-19 V2.2.0 EN 301 489-52 V1.2.1
ESD	EN 61000-4-2:2009
Radiated Immunity	EN 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 303 413 V1.2.1 EN 301 908-1 V15.1.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.1.1



Safety

Standards	CE: EN 62368-1:2014 + A11:2017, EN IEC 62311:2020, EN 50665:2017
	RCM : AS/NZS 60950.1: 2015
	CB : IEC 62368-1:2018
	UL/CSA Safety: UL 62368-1 (3rd Ed., Rev. December 13, 2019),
	CAN/CSA C22.2 No. 62368-1:19 (3rd Ed., Rev. December 13, 2019)
Standards	CE: EN 62368-1:2014 + A11:2017, EN IEC 62311:2020, EN 50665:2017
	RCM : AS/NZS 60950.1: 2015
	CB : IEC 62368-1:2018
	UL/CSA Safety: UL 62368-1 (3rd Ed., Rev. December 13, 2019),
	CAN/CSA C22.2 No. 62368-1:19 (3rd Ed., Rev. December 13, 2019)



ORDERING

STANDARD PACKAGE*















- Router RUTX09
- 18 W PSU
- 2x Mobile antennas (swivel, SMA male)
- 1x GNSS antenna (adhesive, SMA male, 3 m cable)
- SIM Adapter kit
- Ethernet cable (1.5 m)
- QSG (Quick Start Guide)
- Packaging box

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

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



CLASSIFICATION CODES

HS Code: 851762 **HTS:** 8517.62.00

AVAILABLE VERSIONS

RUTX09 0 ***** Europe ³ , The Middle East ³ , Africa, Australia, APAC ² , Brazil, Malaysia	4G (LTE-FDD) : B1, B3, B5, B7, B8, B20, B28, B32 ¹ 4G (LTE-TDD) : B38, B40, B41 3G : B1, B3, B5, B8	RUTX09000000 / Standard package with EU PSU RUTX09000A00 / Standard package with Power cable with 4-way screw terminal RUTX09000400 / Standard package with UK PSU RUTX09000300 / Standard package with AU PSU RUTX09000900 / Mass packing code
RUTX09 1***** North America	4G (LTE-FDD) : B2, B4, B5, B7, B12, B13, B25, B26, B291, B30, B66 3G : B2, B4, B5	RUTX09100200 / Standard package with US PSU RUTX09100900 / Mass packing code
RUTX09 2 ***** EMEA ³ , Australia, Brazil	4G (LTE-FDD) : B1, B3, B5, B7, B8, B20, B28, B32 4G (LTE-TDD) : B38, B40, B41 3G : B1, B3, B5, B8	RUTX0920B200 / Standard package with EU PSU RUTX09200300 / Standard package with AU PSU RUTX09200400 / Standard package with UK PSU RUTX09200900 / Mass packing RUTX09200A00 / Standard package with Power cable with 4-way screw terminal
RUTX09 3 ***** North America	4G (LTE-FDD): B2, B4, B5, B7, B12, B13, B14, B25, B26, B29, B30, B66, B71 4G (LTE-TDD): B41, B48	RUTX09300200 / Standard package with US PSU

The price and lead-times for region (operator) specific versions may vary. For more information please contact us.

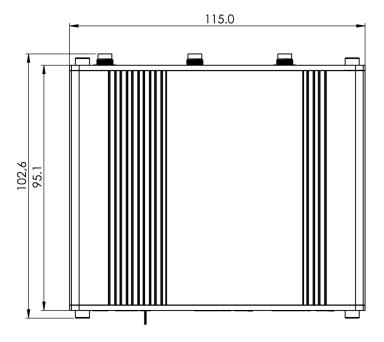
- 1 LTE-FDD B29 and B32 support Rx only, and in 2×CA it is only for secondary component carrier
- 2 Excluding Japan and CMCC
- 3 Regional availability excluding Russia, Belarus & Iran

RUTX09 SPATIAL MEASUREMENTS



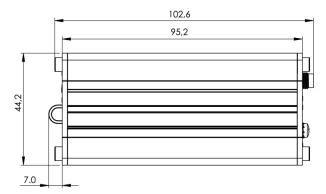
TOP VIEW

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



RIGHT VIEW

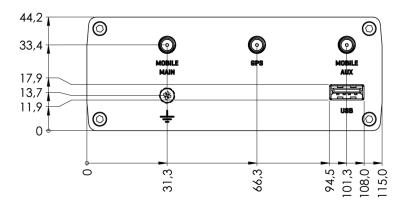
The figure below depicts the measurements of device and its components as seen from the right:





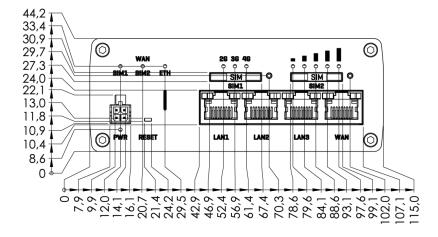
REAR VIEW

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



FRONT VIEW

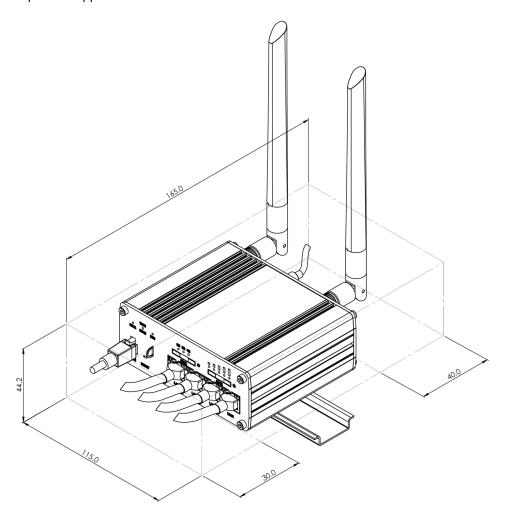
The figure below depicts the measurements of device and its components as seen from the front panel side:





MOUNTING SPACE REQUIREMENTS

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





DIN RAIL

The scheme below depicts protrusion measurements of an attached DIN Rail:

