

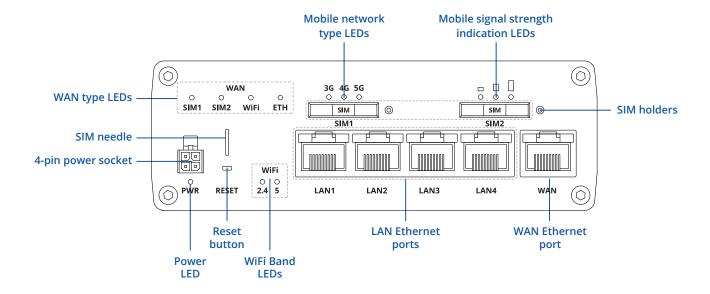
RUTX50



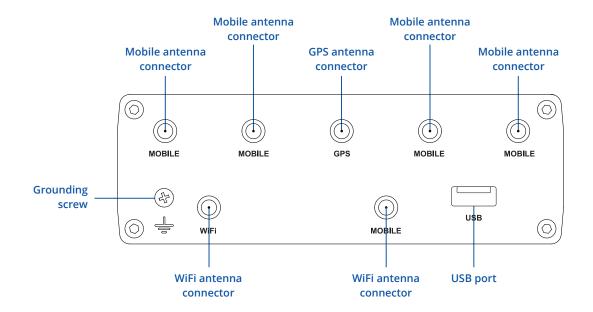


HARDWARE

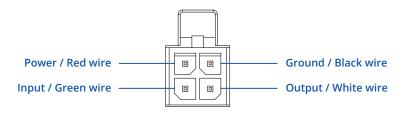
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

2.1/3.3Gbps DL (4x4 MIMO), 900/600 Mbps UL (2x2); 4G (LTE) – LTE Cat 20 2.0Gbps DL, 200Mbps UL; Mbps UL 2.th cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail, 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, Carrier aggregation 2.5INR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, CARRIER, ISLA, INSI, ICCID, CARRIER, INSI, INSI, ICCID, CARRIER, ISLA, INSI,
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1000 Mbns, compliance with IEEE 902.2 IEEE 902.21, 902.227 standards, supports auto MDI/MDIV
1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX
1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX
c routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), Policy based routing
MP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, IQTT, Wake On Lan (WOL)
ocol NAT helpers, allowing proper routing of VoIP packets
oot, Periodic Reboot, LCP and ICMP for link inspection
les, custom rules
allocation, DHCP Relay
s by source/destination, service, protocol or port, WMM, 802.11e
providers, others can be configured manually
RP, Wired options, each of which can be used as an automatic Failover
c over multiple WAN connections
mote file system via SSH protocol
certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block
certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T
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rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention
rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention has, NULL flags, FIN scan attacks)



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-CFB8 192, AES-192-CFB8 192, AES-192-CFB8 192, AES-192-CFB8 192, AES-256-CFB8 256, AES-256-CFB1 256, AES-256-CFB8
IPsec	IKEV1, IKEV2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES192GCM12, AES256GCM12, AES256GCM16, AES192GCM16, AES256GCM16)
GRE	GRE tunnel, GRE tunnel over IPsec support
PPTP, L2TP	Client/Server instances can run simultaneously, L2TPv3, L2TP over IPsec support
SSTP	Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the program's code
STUNNEL	Method of building scalable IPsec VPNs
DMVPN	SSTP client instance support
WireGuard	ZeroTier VPN client support
ZeroTier	WireGuard VPN client and server support
ZeroTier ZeroTier	Tinc offers encryption, authentication and compression in it's tunnels. Client and server support.
Zeronei	Thic offers encryption, authentication and compression in it's turners. Cheft and server support.
MODBUS TCP SLAVE	
ID range	Respond to one ID in range [1;255] or any
Allow Remote Access	Allow access through WAN
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 Slave functionality
MODBUS TCP MASTER	
Supported functions	01, 02, 03, 04, 05, 06, 15, 16
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)
DATA TO SERVER	
Protocol	HTTP(S), MQTT, Azure MQTT, Kinesis
DNP3	
MQTT Gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
DNP3	
Supported modes	TCP Master, DNP3 Outstation
MONITORING & MANAGEM	ENT CONTRACTOR OF THE PROPERTY
WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
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-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
JSON-RPC	Management API over HTTP/HTTPS
MODBUS	MODBUS TCP status/control
RMS	Teltonika Remote Management System (RMS)
IoT PLATFORMS	
Clouds of things	Allows monitoring of: Device data, Mobile data, Network info, Availability
	, months months and a series data, mostle data, received mostle data, received mostles
	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
ThingWorx	· · · · · · · · · · · · · · · · · · ·
ThingWorx Cumulocity	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection
ThingWorx Cumulocity Azure IoT Hub SYSTEM CHARACTERISTICS	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength Can send device IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, SIM State, PIN state, GSM signal, WCDMA RSCP,
ThingWorx Cumulocity Azure IoT Hub	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength Can send device IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, SIM State, PIN state, GSM signal, WCDMA RSCP,
ThingWorx Cumulocity Azure IoT Hub SYSTEM CHARACTERISTICS	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength Can send device IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, SIM State, PIN state, GSM signal, WCDMA RSCP, WCDMA EC/IO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type



FIRMW	ARF	/ CONFI	IGURA	TION

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

FIRMWARE CUSTOMIZATION

Operating system	RutOS (OpenWrt based Linux OS)
Supported languages	Busybox shell, Lua, C, C++
Development tools	SDK package with build environment provided

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	

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, 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, surge protection >51 VDC 10us max
PoE (passive)	Possibility to power up through LAN1 port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 30 VDC
Power consumption	Idle: < 4W, Max: 18W

PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTONS, SIM)

Ethernet	5 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	$3 \times$ connection status LEDs, $3 \times$ connection strength LEDs, $10 \times$ Ethernet port status LEDs, $4 \times$ WAN status LEDs, $1 \times$ Power LED, $2 \times 2.4G$ and $5G$ Wi-Fi LEDs
SIM	2 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V
Power	1 x 4-pin power connector
Antennas	4 x SMA for Mobile, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNNS
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	Aluminum housing
Dimensions (W x H x D)	132 x 44.2 x 95.1 mm
Weight	533 g
Mounting ontions	DIN rail (can be mounted on two sides) flat surface placement

OPERATING ENVIRONMENT

Operating temperature	-40 °C to 75 °C
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30



WHAT'S IN THE BOX?

STANDARD PACKAGE CONTAINS*

- RUTX50 Router
- 18 W PSU
- 4x Mobile antennas (swivel, SMA male)
- 2x Wi-Fi antennas (magnetic mount, RP-SMA male, 1.5 m cable)
- 1x GNSS antenna (adhesive, SMA male, 3 m cable)
- Ethernet cable (1.5 m)
- SIM Adapter kit
- QSG (Quick Start Guide)
- Packaging box





RUTX50 ROUTER



18 W PSU



4X MOBILE ANTENNAS (SWIVEL, SMA MALE)



2X WI-FI ANTENNAS (MAGNETIC MOUNT, RP-SMA MALE, 1.5 M CABLE)



1X GNSS ANTENNA (ADHESIVE, SMA MALE, 3 M CABLE)



ETHERNET CABLE (1.5 M)



SIM ADAPTER KIT

^{*} For all standard order codes standard package contents are the same, execpt for PSU.



STANDARD ORDER CODES

PRODUCT CODE	HS CODE	HTS CODE	PACKAGE CONTAINS
RUTX50 000000	851762	8517.62.00	Standard package with EU PSU

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

AVAILABLE VERSIONS

PRODUCT CODE	REGION (OPERATOR)	FREQUENCY
RUTX50 0****	Europe¹, The Middle East, Africa, Oceania, Brazil	 5G NR NSA: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n77, n78 5G NR SA: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n77, n78 4G (LTE-FDD): B1, B3, B5, B7, B8, B20, B28 4G (LTE-TDD): B38, B40, B41, B42, B43 3G: B1, B5, B8
RUTX50 000305	Thailand	 5G NR NSA: n7, n40, n77, n78 5G NR SA: n1, n3, n5, n7, n8, n20, n38, n40, n41, n77, n78 4G (LTE-FDD): B1, B3, B5, B7, B8, B20 4G (LTE-TDD): B38, B40, B41, B42, B43 3G: B1, B8

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

^{1 -} Regional availability - excluding Russia & Belarus.



RUTX50 SPATIAL MEASUREMENTS & WEIGHT

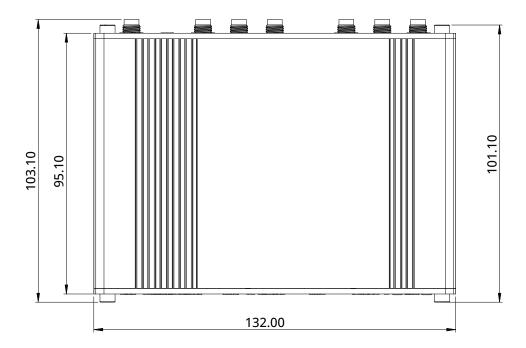
MAIN MEASUREMENTS

W x H x D dimensions for RUTX50:

Device housing*: 132 x 44.2 x 95.1 mm Box: 355 x 60 x 175 mm

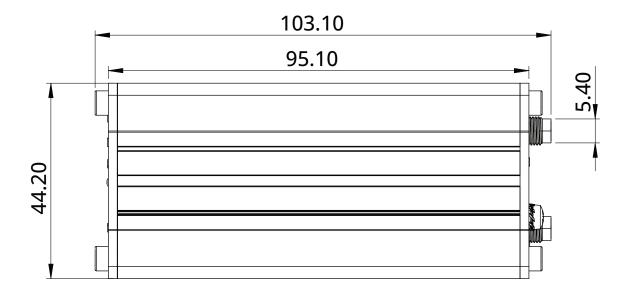
TOP VIEW

The figure below depicts the measurements of RUTX50 and its components as seen from the top:



RIGHT VIEW

The figure below depicts the measurements of RUTX50 and its components as seen from the right side:

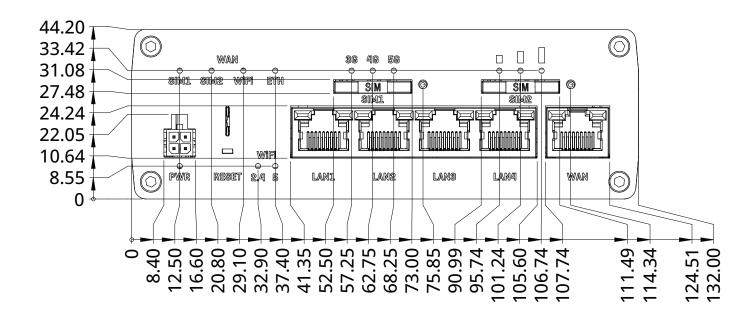


^{*}Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.



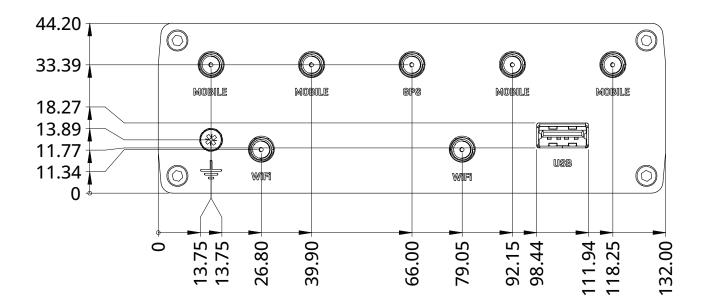
FRONT VIEW

The figure below depicts the measurements of RUTX50 and its components as seen from the front panel side:



REAR VIEW

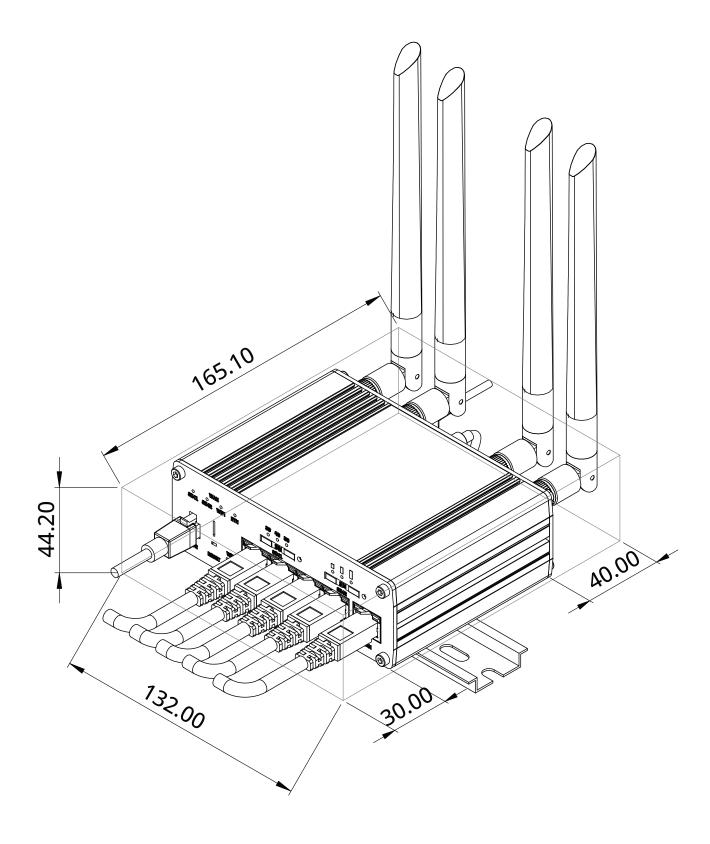
The figure below depicts the measurements of RUTX50 and its components as seen from the back panel side:





MOUNTING SPACE REQUIREMENTS

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





DIN RAIL

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

