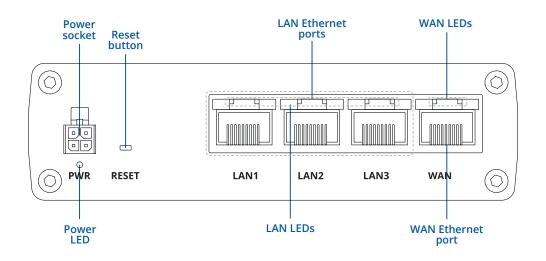






HARDWARE

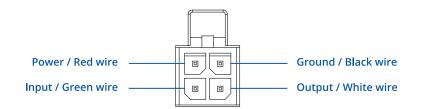
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

ETHERNET

LAN	3x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
WAN	1x WAN port (can be configured as LAN) 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)
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telne client, SNMP, MQTT, Wake on LAN (WOL)
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 forwards, traffic rules, custom rules
DHCP	Static and dynamic IP allocation, DHCP Relay, Relayd
QoS / Smart Queue Management (SQM)	Traffic priority queuing by source/destination, service, protocol or port
DDNS	Supported >25 service providers, others can be configured manually
Network backup	VRRP
Hotspot	Internal/external Radius server, captive portal, built in customizable landing page
SSHFS (optional)	Possibility to mount remote file system via SSH protocol (not available in standard FW)

SECURITY

Authetication	Pre-shared key, digital certificates, X.509 certificates
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 based 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 TCP, UDP, ICMP packets, MAC address filter

VPN

OpenVPN	Multiple clients and a server can run simultaneously, 12 encryption methods
OpenVPN Encryption	DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC
IPsec	IKEv1, IKEv2, with 5 encryption methods for IPsec (DES, 3DES, AES128, AES192, AES256)
GRE	GRE tunnel
PPTP, L2TP	Client/Server instances can run simultaneously
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
SSTP	SSTP client instance support

MODBUS

Modbus TCP slave	ID range 1-255
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 (Big endian, Big endian with byte-swapped, Little endian, Little endian with byte-swapped)

MONITORING & MANAGEMENT

TELTONIKA | Networks

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)
SNMP	SNMP (v1, v2, v3), SNMP trap
MQTT	MQTT Broker, MQTT publisher
JSON-RPC (planned)	Management API over HTTP/HTTPS
RMS	Teltonika Remote Management System (RMS)
TR-069	OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem

SYSTEM CHARACTERISTICS

CPU	Quad-core ARM Cortex A7, 717 MHz
RAM	256 MB, DDR3
FLASH memory	256 MB Flash

FIRMWARE / CONFIGURATION

WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup
FOTA	Update FW/configuration from server
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

USB

Data rate	USB 2.0
Applications	Samba share, custom scripts (planned)
External devices	Possibility to connect external HDD, flash drive, additional modem, printer (planned)
Keep Storage formats	FAT, FAT32, NTFS

INPUT/OUTPUT

Input	1x Digital Input
Output	1x Digital Output
Events	SMS, Email, RMS

POWER

Connector	4 pin industrial DC power socket
Input voltage range	9 - 50 VDC, reverse polarity protection, voltage surge/transient protection
PoE (passive)	Passive PoE. Possibility to power up through LAN port, not compatible with IEEE 802.3af and 802.3at standards
Power consumption	6 W Max

PHYSICAL SPECIFICATION

Casing material	Full aluminium housing
Dimensions	95 x 115 x 32 mm (L x W x H)
Weight	345 g
Power consumption	DIN rail (can be mounted on two sides), flat surface placement



PHYSICAL INTERFACES (PORTS, LEDS, BUTTONS)

	· · · · · · · · · · · · · · · · · · ·
Ethernet	4x RJ45 ports, 10/100/1000 Mbps
I/Os	1 Digital Input, 1 Digital Output on 4 pin power connector
Status LEDs	8x LAN status LEDs, 1x Power LED
Power	4 pin DC connector
USB	USB A port for external devices
Reset	Factory reset button

OPERATING ENVIRONMENT

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

REGULATORY & TYPE APPROVALS

Regulatory & Type Approvals CE, RoHS, REACH

EMI IMMUNITY

Standards	EN 55032:2015, EN 55035:2017
ESD	EN 55032:2015, EN 55035:2017
RS	EN 61000-4-3:2006+A1:2008+A2:2010
EFT	EN 61000-4-4:2012
Surge protection	EN 61000-4-5:2014
CS	EN 61000-4-6:2014
DIP	EN 61000-4-11:2004

SAFETY

Standards

IEC 62368-1:2014 EN 62368-1:2014+A11:2017



HARDWARE INSTALLATION

- 1. Connect the power adapter to the socket on the front of the device. Then plug the other end of the power adapter into a power outlet.
- 2. Connect to the device via an Ethernet cable connected to LAN port.

LOGIN TO DEVICE

1. To enter the router's Web interface (WebUI), type http://192.168.1.1 into the URL field of your Internet browser.

2. Use login information shown in image A when prompted for authentication.

3. After you log in, you will be prompted to change your password for security reasons. The new password must contain at least 8 characters, including at least one uppercase letter, one lowercase letter, and one digit. This step is mandatory, and you will not be able to interact with the router's WebUI before you change the password.

4. When you change the router's password, the Configuration Wizard will start. The Configuration Wizard is a tool used to set up some of the router's main operating parameters.

TELTONIKA	
AUTHORIZATION REQUIRED	admin
Please anter your username and password	admin01
	LOG IN

TECHNICAL INFORMATION

After logging in to the router's WebUI, you will be prompted to change the default password and the Setup Wizard will start: 1. Choose your time zone and sync the router's time with the browser if needed.

TIME ZONE SETTINGS			
Current system time Thu Mar 7 14:49:06	2019 SYNC WITH BROWSER		
Time zone	EUROPE/VILNIUS		
		SKIP	NEXT

2. Default LAN settings are recommended unless you have specific requirements for your LAN network.

LAN CONFIGURATION		
IP address	192.168.1.1	
Netmask	255.255.255.0	
LAN CONFIGURATION		
IP address	off on	
Start	100	
Limit	150	
Lease time	12	
Units	HOURS	
< BACK		SKIP NEXT

TECHNICAL INFORMATION

Bundled accessories specifications*		
Power adapter Input: 0.6A@100-240VAC, Output: 12VDC, 1.5A, 4-pin plug		

*Order code dependent.



WHAT'S IN THE BOX?

STANDARD PACKAGE CONTAINS

- Router RUTX08
- Euro PSU
- Ethernet cable (1.5 m)
- QSG (Quick Start Guide)
- Packaging box







STANDARD ORDER CODES

PRODUCT CODE	HS CODE	HTS CODE	PACKAGE CONTAINS
RUTX0800000	851762	8517.62.00	Standard package

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



MOUNTING OPTIONS

DIN RAIL KIT

Parameter	Value
Mounting standard	35mm DIN Rail
Material	Low carbon steel
Weight	57g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	82 mm x 46 mm x 20 mm
RoHS Compliant	V

DIN RAIL KIT

- DIN Rail adapter
- Philips Pan Head screw #6-32×3/16, 2pcs for RUT2xx/RUT9xx



ORDER CODE	PRODUCT CODE	HS CODE	HTS CODE
088-00267	PR5MEC00	73269098	7326.90.98

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

COMPACT DIN RAIL KIT

Parameter	Value
Mounting standard	35mm DIN Rail
Material	ABS + PC plastic
Weight	6.5 g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	70 mm x 25 mm x 14,5 mm
RoHS Compliant	V

DIN RAIL KIT

- Compact plastic DIN Rail adapter (70x25x14,5mm)
- Philips Pan Head screw #6-32×3/16, 2pcs



ORDER CODE	PRODUCT CODE	HS CODE	HTS CODE
088-00270	PR5MEC11	73269098	7326.90.98

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

SURFACE MOUNTING KIT

Parameter	Value
Mounting standard	Flat surface mount
Material	ABS + PC plastic
Weight	2x5 g
Screws included	Philips Pan Head screw #6-32×3/16, 2pcs
Dimensions	25 mm x 48 mm x 7.5 mm
RoHS Compliant	V



DIN RAIL KIT

- Surface mounting kit
- Philips Pan Head screw #6-32×3/16, 2pcs

ORDER CODE	PRODUCT CODE	HS CODE	HTS CODE
088-00281	PR5MEC12	73269098	7326.90.98

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



RUTX08 SPATIAL MEASUREMENTS & WEIGHT

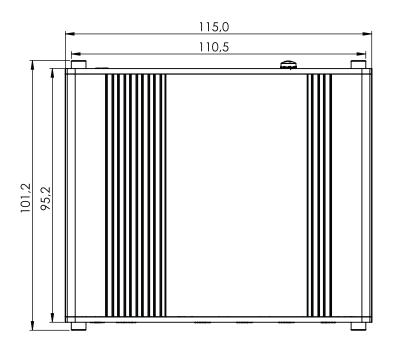
MAIN MEASUREMENTS

H x W x D dimensions for	RUTX08:
Device housing*:	95 x 115 x 32
Box:	173 x 148 x 71

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

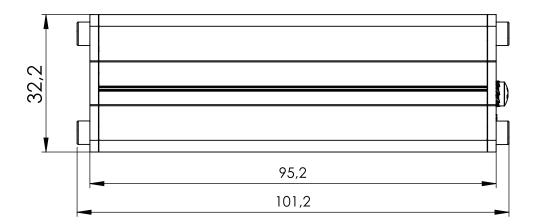
TOP VIEW

The figure below depicts the measurements of RUTX08 and its components as seen from the top:



RIGHT VIEW

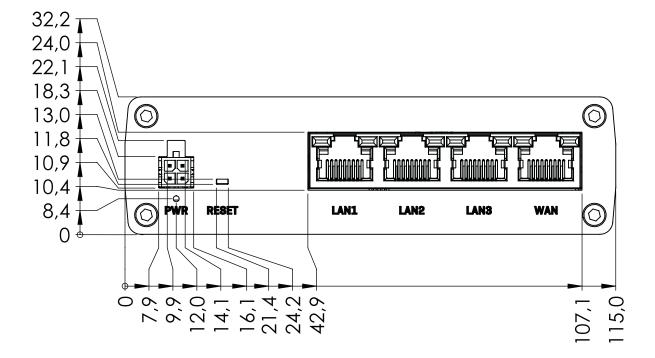
The figure below depicts the measurements of RUTX08 and its components as seen from the right side:





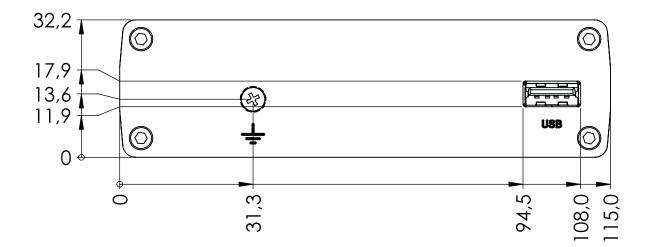
FRONT VIEW

The figure below depicts the measurements of RUTX08 and its components as seen from the front panel side:



REAR VIEW

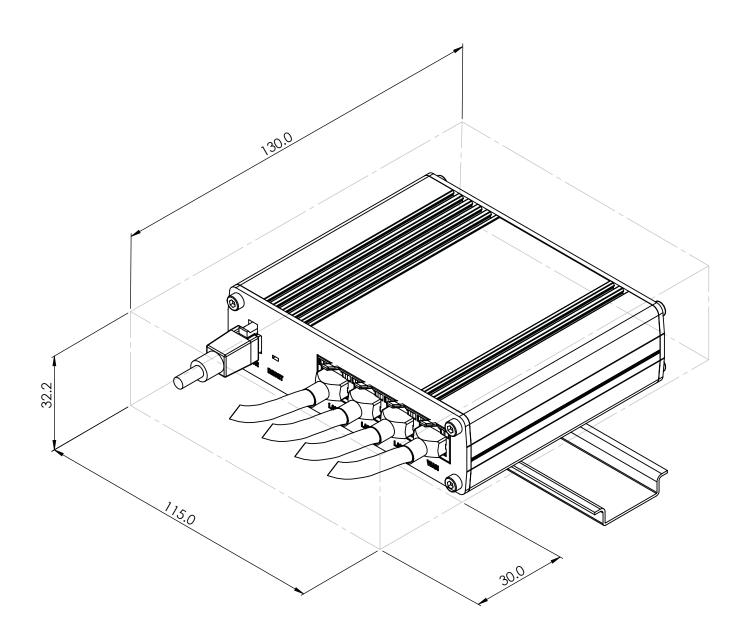
The figure below depicts the measurements of RUTX08 and its components as seen from the back panel side:





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:

