

RUT142

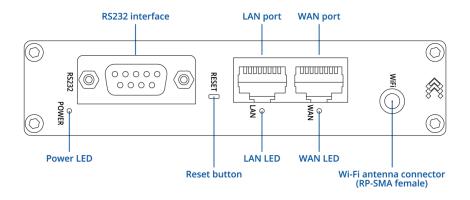
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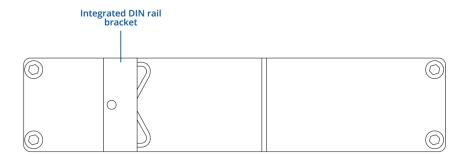


HARDWARE

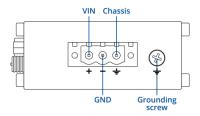
FRONT VIEW



BACK VIEW



POWER SOCKET PINOUT





FEATURES

Wireless

Wireless mode	802.11b/g/n (Wi-Fi 4), 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 50 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	
Ethernet		
WAN	1 x WAN port 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover	
LAN	1 x LAN ports, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover	



Network

Network protocols TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake of (WOL), VXLAN VoIP passthrough support H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP pass (WOL), VXLAN Poing 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 change their transmission speed, and so on Network topology Visual representation of your network, showing which devices are connected other devices DHCP Static and dynamic IP allocation, DHCP relay, DHCP server configuration, static leases: MAC with wildcards OoS / Smart Queue Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WM 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 quer HTTPS Network backup Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic Load balancing Balance Internet traffic over multiple WAN connections Captive portal (hotspot), internal/external Radius server, Radius MAC auther SMS authorisation, SSO authentication, internal/external landing page, walle user scripts, URL parameters, user groups, individual user or group limitation			
VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake (WOL), VXLAN VolP passthrough support H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VolP passthrough support 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 change their transmission speed, and so on Network topology Visual representation of your network, showing which devices are connected other devices DHCP Static and dynamic IP allocation, DHCP relay, DHCP server configuration, static leases: MAC with wildcards Qos / Smart Queue Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WM 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 quer HTTPS Network backup Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic Load balancing Balance Internet traffic over multiple WAN connections Hotspot Captive portal (hotspot), internal/external Radius server, Radius MAC auther SMS authorisation, SSO authentication, internal/external landing page, walle user scripts, URL parameters, user groups, individual user or group limitation management, 9 default customisable themes and optionality to upload and customised hotspot themes SSHFS Possibility to mount remote file system via SSH protocol	Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, EIGRP, NHRP), Policy based routing	
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 change their transmission speed, and so on Network topology Visual representation of your network, showing which devices are connected other devices DHCP Static and dynamic IP allocation, DHCP relay, DHCP server configuration, static leases: MAC with wildcards QoS / Smart Queue Management (SQM) Traffic priority queuing by source/destination, service, protocol or port, WM 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 quer HTTPS Network backup Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic balancing Balance Internet traffic over multiple WAN connections Hotspot Captive portal (hotspot), internal/external Radius server, Radius MAC auther SMS authorisation, SSO authentication, internal/external landing page, walle user scripts, URL parameters, user groups, individual user or group limitation management, 9 default customisable themes and optionality to upload and customised hotspot themes SSHFS Possibility to mount remote file system via SSH protocol	Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake On Lan (WOL), VXLAN	
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Network backup Wi-Fi WAN, VRRP, Wired options, each of which can be used as an automatic Load balancing Balance Internet traffic over multiple WAN connections Captive portal (hotspot), internal/external Radius server, Radius MAC auther SMS authorisation, SSO authentication, internal/external landing page, walle user scripts, URL parameters, user groups, individual user or group limitation management, 9 default customisable themes and optionality to upload and ocustomised hotspot themes SSHFS Possibility to mount remote file system via SSH protocol	DDNS	Supported >25 service providers, others can be configured manually	
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SMS authorisation, SSO authentication, internal/external landing page, walle user scripts, URL parameters, user groups, individual user or group limitation management, 9 default customisable themes and optionality to upload and customised hotspot themes SSHFS Possibility to mount remote file system via SSH protocol	Load balancing	Balance Internet traffic over multiple WAN connections	
	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	
Traffic Management Real-time monitoring, wireless signal charts, traffic usage history	SSHFS	Possibility to mount remote file system via SSH protocol	
	Traffic Management	Real-time monitoring, wireless signal charts, traffic usage history	

Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, IP & login attempts block, time-based login blocking,



Security

Authentication

	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	
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 192, AES-192-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, 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.	



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Supported modes	Client, Server	
Supported connection types	ТСР	
MODBUS		
Supported modes	Server, Client	
Supported connection types	TCP, RTU(RS232)	
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 t 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, RTU(RS232)	
DLMS/COSEM		
DLMS Support	DLMS - standard protocol for utility meter data exchange	
Supported modes	Client	
Supported connection types	TCP, RTU(RS232)	
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)	
Email	Receive email message status alerts of various services	
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		
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 lo-Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT Hubs	
System Characteristics		
CPU	Mediatek, 580 MHz, MIPS 24KEc	
RAM	128 MB, DDR2	
FLASH storage	16 MB serial NOR 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++	
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 client needs	
Package Manager	The Package Manager is a service used to install additional software on the device	
Power		
Connector	3-pos plugable terminal block	
Input voltage range	9-30 VDC, reverse polarity protection, surge protection >31 VDC 10us max	
PoE (passive)	Passive PoE over spare pairs. 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: < 1 W / Max: < 2 W	
Physical Interfaces		
Ethernet	2 x RJ45 ports, 10/100 Mbps	
Status LEDs	1 x WAN type LED, 1 x LAN type LED, 1 x Power LED	
Power	1 x 3-pin power connector	
Antennas	1 x RP-SMA for Wi-Fi	
RS232	1 x DB9 socket	
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)	113.10 x 25 x 68.6 mm	
Weight	149.2 g	
Mounting options	Integrated DIN rail bracket; wall mount and flat surface (additional kit needed)	





Operating temperature	-40 °C to 75 °C	
Operating humidity	10% to 90% non-condensing	
Ingress Protection Rating	IP30	
Regulatory & Type Approvals		
Regulatory	CE, UKCA, RCM, FCC, IC, CB, WEEE, RoHS, REACH	
EMC Emissions & Immunity		
Standards	EN 55032:2015 + A11:2020 + A1:2020 EN 55035:2017 + A11:2020 EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4	
ESD	EN 61000-4-2:2009	
Radiated Immunity	EN IEC 61000-4-3:2020	
EFT	EN 61000-4-4:2012	
Surge immunity (Ethernet ports)	EN 61000-4-5:2014 +A1:2017	
cs	EN 61000-4-6:2014	
RF		
Standards	EN 300 328 V2.2.2	
Safety		
Standards	CE: EN 62368-1:2014 + A11:2017, EN IEC 62232:2017, EN 50385:2017 RCM: AS/NZS 62368.1:2018 CB: IEC 62368-1:2018	
Safety (Ordinary Locations)		
Standards	CE: EN IEC 62368-1:2020 + A11:2020, EN IEC 62311:2020, EN 50665:2017 RCM: AS/NZS 62368.1:2022 CB: IEC 62368-1:2018	



ORDERING

STANDARD PACKAGE*







- Router RUT142
- 3-pin power connector
- 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

RUT142 0*****	N/A	RUT142000000 / Standard package
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For more information on all available packaging options – please contact us directly.

RUT142 SPATIAL MEASUREMENTS

PHYSICAL SPECIFICATION

Device housing (W x H x D)*:	113.1 x 25 x 68.6 mm
Box (W x H x D):	141 x 28.2 x 74.5 mm
	*Housing measurements are presented without antenna connectors and screws; for

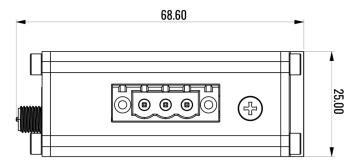
measurements of other device elements look to the sections below.

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



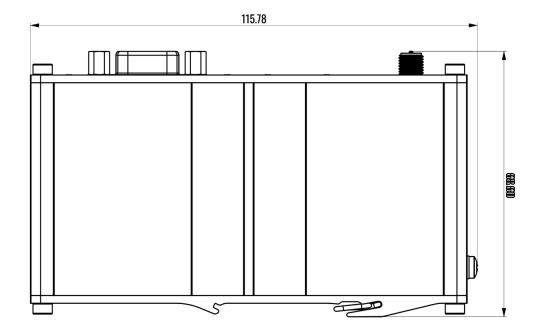
TOP VIEW

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



RIGHT VIEW

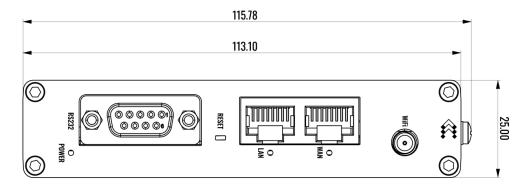
The figure below depicts the measurements of device and its components as seen from the right side:





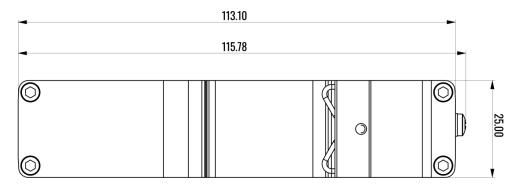
FRONT VIEW

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:

