

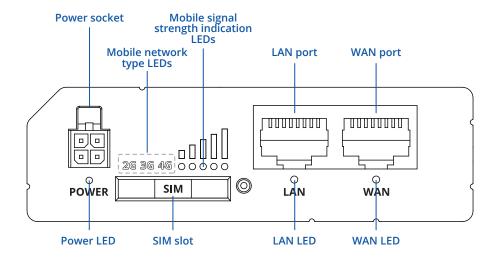
# RUT241



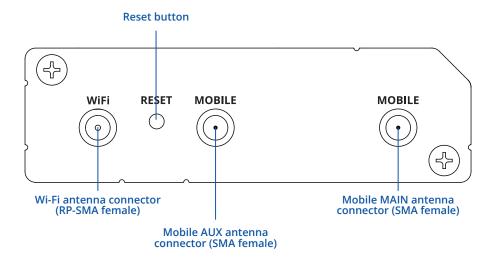


## **HARDWARE**

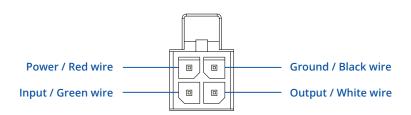
#### **FRONT VIEW**



#### **BACK VIEW**



## **POWER SOCKET PINOUT**





# **FEATURES**

## MOBILE

Mobile module	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps
3GPP Release	Release 10/11 depending on the hardware version
Status	Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID
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
Multiple PDN	Possibility to use different PDNs for multiple network access and services
Band management	Band lock, Used band status display
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	
Vireless mode	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
Ni-Fi security	WPA2-Enterprise - PEAP, WPA2-PSK, WEP, WPA-EAP, WPA-PSK; AES-CCMP, TKIP, Auto Cipher modes, client separation
SSID/ESSID	SSID stealth mode and access control based on MAC address
Vi-Fi users	Up to 50 simultaneous connections
Nireless Connectivity Features	Fast roaming (802.11r), Relayd
Vireless MAC filter	Whitelist, blacklist
Vireless QR code generator	Once scanned, a user will automatically enter your network without needing to input login information
NETWORK	
Hotspot	Captive portal (Hotspot), internal/external Radius server, SMS authorization, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customizable themes and option to upload and download customised hotspot themes
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, SMNP, MQTT, Wake On Lan (WOL)
/oIP 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
irewall	Port forward, traffic rules, custom rules
irewall 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, SMS authorization, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group limitations, user management, 9 default customizable themes and option to upload and download customised hotspot themes
DHCP	Static and dynamic IP allocation, DHCP Relay
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
letwork backup	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover
oad balancing	Balance Internet traffic over multiple WAN connections
SHFS	Possibility to mount remote file system via SSH protocol
ETHERNET	
	1 x WAN port 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
VAN	1 x WAIN port 10/100 Mibps, compliance left 602.3, left 602.3d standards, supports auto MibiniMibin
NAN AN	1 x LAN port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX



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SECURITY	
Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block
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 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
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-256-CFB8 256, AES-256-CFB8 256, AES-256-CFB 256, AES-256-CFB 256, AES-256-CBC 256
IPsec	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
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
OPC UA	
Supported modes	Client, Server (planned)
Supported connection types	TCP
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
Data to server	Extract parameters from multiple sources and different protocols, and send them all to a single server
MQTT GATEWAY	
MQTT Gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
DNP3	
Supported modes	TCP Master, DNP3 Outstation



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	
Cloud of Things	Allows monitoring of: Device data, Mobile data, Network info, Availability
ThingWorx	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
Cumulocity	Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength
Azure IoT Hub	Can send device IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection stat 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
SYSTEM CHARACTERIST	ICS
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
RAM FLASH storage	128 MB, DDR2  16 MB, SPI Flash
FLASH storage	16 MB, SPI Flash
FLASH storage FIRMWARE / CONFIGUR	16 MB, SPI Flash ATION
FLASH storage FIRMWARE / CONFIGUR WEB UI	16 MB, SPI Flash  ATION  Update FW from file, check FW on server, configuration profiles, configuration backup
FLASH storage FIRMWARE / CONFIGUR WEB UI FOTA	16 MB, SPI Flash  ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW
FLASH storage FIRMWARE / CONFIGUR WEB UI FOTA RMS	16 MB, SPI Flash  ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once
FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration
FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration
FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)
FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration
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FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages  Development tools  GPL customization	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++
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FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages  Development tools  GPL customization  INPUT / OUTPUT  Input	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++  SDK package with build environment provided  You can now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs  1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high
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FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages  Development tools  GPL customization  INPUT / OUTPUT  Input  Output  Events	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++  SDK package with build environment provided  You can now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs  1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high  1 x Digital Output, Open collector output, max output 30 V, 300 mA  Email, RMS, SMS
FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++  SDK package with build environment provided  You can now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs  1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high  1 x Digital Output, Open collector output, max output 30 V, 300 mA
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FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages  Development tools  GPL customization  INPUT / OUTPUT  Input  Output  Events  I/O juggler  POWER	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++  SDK package with build environment provided  You can now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs  1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high  1 x Digital Output, Open collector output, max output 30 V, 300 mA  Email, RMS, SMS
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FLASH storage  FIRMWARE / CONFIGUR  WEB UI  FOTA  RMS  Keep settings  FIRMWARE CUSTOMIZA  Operating system  Supported languages  Development tools  GPL customization  INPUT / OUTPUT  Input  Output  Events  I/O juggler  POWER  Connector	ATION  Update FW from file, check FW on server, configuration profiles, configuration backup  Update FW  Update FW/configuration for multiple devices at once  Update FW without losing current configuration  TION  RutOS (OpenWrt based Linux OS)  Busybox shell, Lua, C, C++  SDK package with build environment provided  You can now create your own custom firmware and web page application, with some examples to make the creation process easier; and brand our firmware by changing colours, logos, and so on to fit your or your clients' needs  1 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high  1 x Digital Output, Open collector output, max output 30 V, 300 mA  Email, RMS, SMS  Allows to set certain I/O conditions to initiate event  4-pin industrial DC power socket



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Ethernet	2 x RJ45 ports, 10/100 Mbps
I/O's	1 x Digital Input, 1 x Digital Output on 4-pin power connector
Status LEDs	3 x Connection type status LEDs, 5 x Connection strength LEDs, 2 x LAN status LEDs, 1 x Power LED
SIM	1 x SIM slot (Mini SIM – 2FF), 1.8 V/3 V, external SIM holder
Power	1 x 4-pin power connector
Antennas	2 x SMA for LTE, 1 x RP-SMA for Wi-Fi antenna connectors
Reset	Reboot/User default reset/Factory reset button
PHYSICAL SPECIFICATION	
Casing material	Aluminium housing, plastic panels
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	125 g
Mounting options	Bottom and sideways DIN rail mounting slots
OPERATING ENVIRONMENT	
Operating temperature	-40 °C to 75 °C
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30
REGULATORY & TYPE APPRO	DVALS
Regulatory	CE, UKCA, ANRT, Kenya, ICASA, FCC, IC, PTCRB, NOM, RCM, KC, Giteki, IMDA, E-mark, CB, UL/CSA Safety, RoHS, REACH
Operator	AT&T, Verizon, T-Mobile, Uscellular
EMI 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 301 489-17 V3.2.4 Final Draft EN 301 489-52 V1.2.0
ESD	EN 61000-4-2:2009
Radiated Immunity	EN IEC 61000-4-3:2020
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 61000-4-11:2020
RF	
Standards	EN 300 328 V2.2.2 EN 301 511 V12.5.1 EN 301 908-1 V15.2.1 EN 301 908-2 V13.1.1 EN 301 908-13 V13.2.1
SAFFTV	

**SAFETY** 

Standards

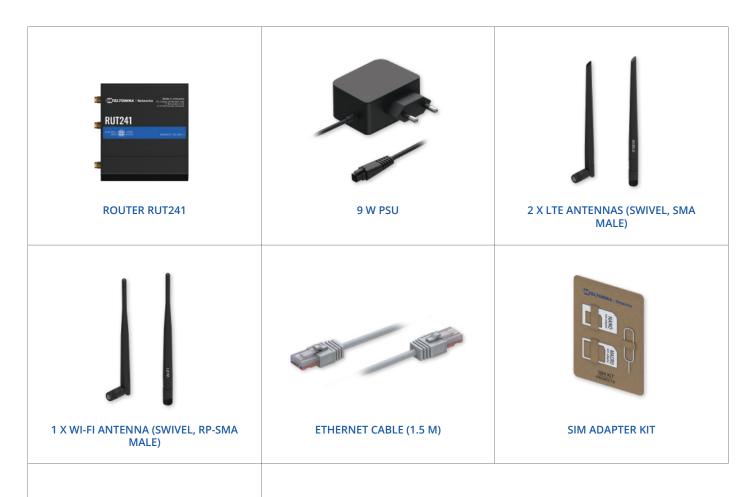
CE: EN IEC 62368-1:2020 + A11:2020, EN IEC 62311:2020, EN 50665:2017 RCM: AS/NZS 62368.1:2022 CB: IEC 62368-1:2018

UL/CSA Safety: UL 62368-1, Ed. 3 dated December 13, 20, CAN/CSA C22.2 No. 62368-1:19



## **STANDARD PACKAGE\***

- Router RUT241
- 9 W PSU
- 2 x LTE antennas (swivel, SMA male)
- 1 x Wi-Fi antenna (swivel, RP-SMA male)
- Ethernet cable (1.5 m)
- SIM Adapter kit
- QSG (Quick Start Guide)
- Packaging box





QSG

<sup>\*</sup> Standard package contents may differ based on standard order codes.



# **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					
RUT241 *0**** Europe1, The Middle East, Africa, Thailand	<b>4G (LTE-FDD)</b> : B1, B3, B7, B8, B20, B28A <b>3G</b> : B1, B8 <b>2G</b> : B3, B8	RUT241000000 / Standard package with EU PSU RUT241001000 / Standard package with UK PSU RUT241004000 / Standard package with Power cable with 4-way screw terminal RUT241002030 / Mass packing code					
RUT241 *1**** Europe1, The Middle East, Africa	<b>4G (LTE-FDD)</b> : B1, B3, B5, B7, B8, B20 <b>4G (LTE-TDD)</b> : B40 <b>3G</b> : B1, B5, B8 <b>2G</b> : B3, B8	RUT241010000 / Standard package with EU PSU RUT241011000 / Standard package with UK PSU RUT241012030 / Mass packing code					
RUT241 *3**** Global1	<b>4G (LTE-FDD)</b> : B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28 <b>4G (LTE-TDD)</b> : B38, B39, B40, B41 <b>3G</b> : B1, B2, B4, B5, B6, B8, B19 <b>2G</b> : B2, B3, B5, B8	RUT241030000 / Standard package with EU PSU RUT241034000 / Standard package with Power cable with 4-way screw terminal RUT241033000 / Standard package with Universal PSU RUT241038000 / Standard package with US PSU RUT241032030 / Mass packing code					
RUT241 *6**** Australia, New Zealand, Taiwan	<b>4G (LTE-FDD)</b> : B1, B3, B5, B7, B8, B28 <b>4G (LTE-TDD)</b> : B40 <b>3G</b> : B1,B5, B8 <b>2G</b> : B3, B5, B8	RUT241065000 / Standard package with AU PSU RUT241063000 / Standard package with Universal PSU RUT241062030 / Mass packing code					
RUT241 *7**** Latin America	<b>4G (LTE-FDD)</b> : B1, B2, B3, B4, B5, B7, B8, B28 <b>4G (LTE-TDD)</b> : B40 <b>3G</b> : B1, B2, B4, B5, B8 <b>2G</b> : B2, B3, B5, B8	RUT241070000 / Standard package with EU PSU RUT241073000 / Standard package with Universal PSU RUT241075000 / Standard package with AU PSU RUT241072030 / Mass packing code					
RUT241 *8**** Japan	<b>4G (LTE-FDD)</b> : B1, B3, B8, B18, B19, B26 <b>4G (LTE-TDD)</b> : B41 <b>3G</b> : B1, B6, B8, B19	RUT241087000 / Standard package with JP PSU RUT241082030 / Mass packing code					
RUT241 *9**** North America2	<b>4G (LTE-FDD)</b> : B2, B4, B5, B12, B13, B14, B66, B71 <b>3G</b> : B2, B4, B5	RUT241098000 / Standard package with US PSU RUT241092030 / Mass packing code					

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

<sup>1 -</sup> Regional availability - excluding Russia & Belarus 2 - For more detailed information about certified carriers, visit our Wiki page



## **RUT241 SPATIAL MEASUREMENTS & WEIGHT**

#### MAIN MEASUREMENTS

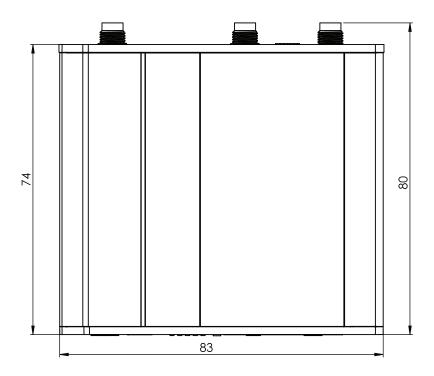
W x H x D dimensions for RUT241:

Device housing\*: 83 x 25 x 74 mm

Box: 173 x 71 x 148 mm

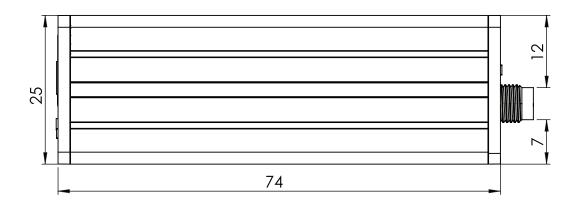
#### **TOP VIEW**

The figure below depicts the measurements of RUT241 and its components as seen from the top:



## **RIGHT VIEW**

The figure below depicts the measurements of RUT241 and its components as seen from the right side:

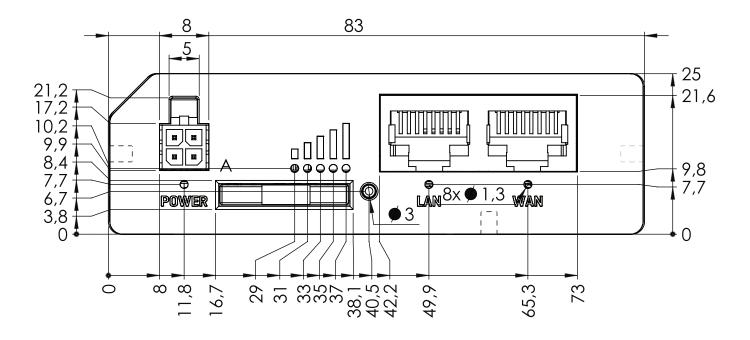


<sup>\*</sup>Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.



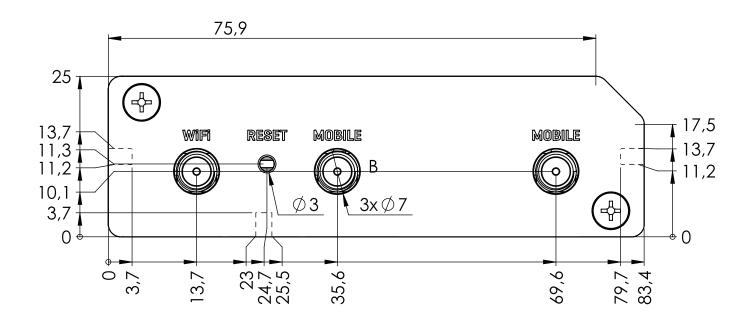
#### **FRONT VIEW**

The figure below depicts the measurements of RUT241 and its components as seen from the front panel side:



### **REAR VIEW**

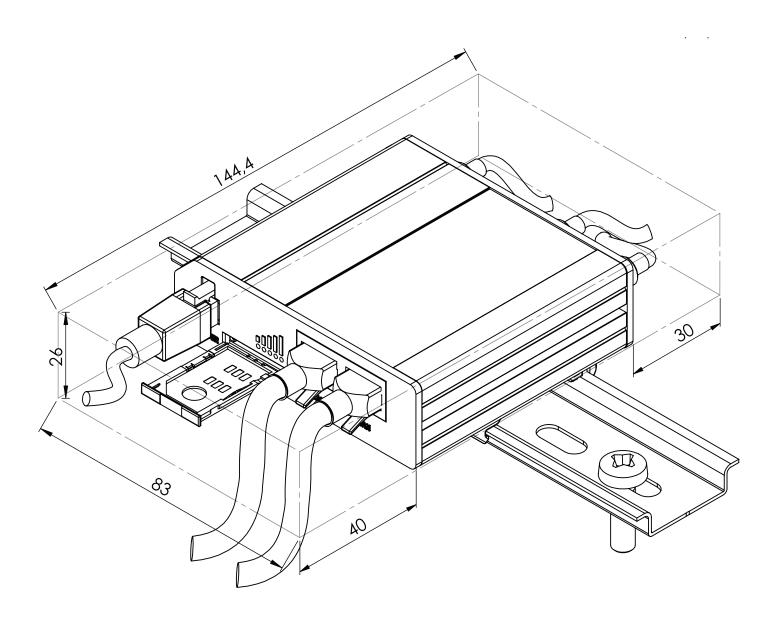
The figure below depicts the measurements of RUT241 and its components as seen from the back panel side:





## 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:

