



# **Nord Technology**

Reseller of Teltonika hardware in Denmark

### NORD TECHNOLOGY CONTACT INFORMATION

World Trade Center

Borupvang 3,

2750 Ballerup,

Denmark

**Tel.:** +45 70 27 04 15

Email: sales@nord-t.eu

**Website**: www.nordtechnology.dk

### **RUT260 - LTE CAT 6 CELLULAR ROUTER**





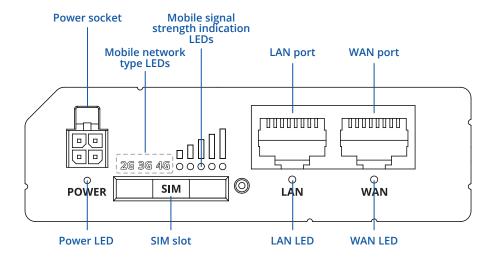
# RUT260



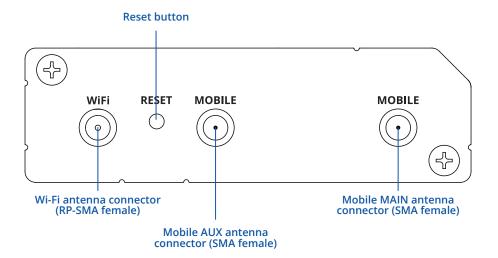


### **HARDWARE**

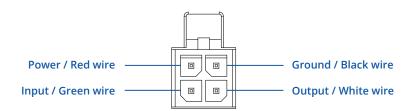
### **FRONT VIEW**



### **BACK VIEW**



### **POWER SOCKET PINOUT**





# **FEATURES**

Mobile module	4G (LTE) – Cat 6 up to 300 Mbps, 3G – Up to 42 Mbps
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	
Wireless mode	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
Wi-Fi security	WPA3-EAP, WPA3-SAE, WPA2-Enterprise-PEAP, WPA2-PSK, WEP; AES-CCMP, TKIP, Auto Cipher modes, client separation
SSID/ESSID	ESSID stealth mode
Wi-Fi users	Up to 50 simultaneous connections
Wireless 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
Wireless mesh/roaming	Fast roaming (802.11r)
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 port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover
27 (14	1 x 13 1 v port, 10 100 mbps, compliance with 1222 002.5, 1222 002.5d, 002.5d2 5tandards, 3dpports date monthly 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, SMNP, 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 forward, traffic rules, custom rules
OHCP	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
Network backup	Supported >25 service providers, others can be configured manually Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover
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Load balancing	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover
Load balancing	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections
Load balancing SSHFS SECURITY	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections
SSHFS SECURITY Authentication	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections  Possibility to mount remote file system via SSH protocol
SSHFS SECURITY Authentication Firewall	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections  Possibility to mount remote file system via SSH protocol  Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block  Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T
Load balancing SSHFS SECURITY Authentication Firewall Attack prevention	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections  Possibility to mount remote file system via SSH protocol  Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block  Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T  DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), port scan prevention (SYN-FIN
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Network backup Load balancing SSHFS SECURITY Authentication Firewall Attack prevention VLAN Mobile quota control WEB filter	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover  Balance Internet traffic over multiple WAN connections  Possibility to mount remote file system via SSH protocol  Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block  Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T  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)  Port and tag-based VLAN separation



### VPN

VIIV	
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 129, AES-128-C
IPsec	IKEv1, IKEv2, with 14 encryption methods for IPsec (3DES, DES, AES128, AES192, AES256, AES128GCM8, AES192GCM8, AES256GCM8, AES128GCM12, AES256GCM12, AES256GCM16, AES128GCM16, 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  DNP3	TCP
Supported modes	Station, Outstation
Supported connection types MODBUS	TCP
Supported modes	Server, Client
Supported connection types	TCP
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
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
Modbus MQTT GATEWAY	
Modbus MQTT Gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
MONITORING & MANAGEM	ENT
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 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



7S1							

CPU	Mediatek, 580 MHz, MIPS 24Kc
RAM	128MB, DDR3
FLASH storage	16 MB, SPI Flash
FIRMWARE / CONFIG	URATION

WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup, restore point
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++, and Python, Java in Package manager
Development tools	SDK package with build environment provided

### 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 - 30 VDC, reverse polarity protection, voltage surge/transient protection
PoE (passive)	Passive PoE over spare pairs. Possibility to power up through LAN port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, LAN1 Port, 9 - 30 VDC
Power consumption	< 2 W idle, < 6.5 W Max

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

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	2 x Connection type status, 5 x Mobile connection strength, 1 x LAN status, 1 x WAN status, 1 x Power	
SIM	1 x SIM slot (Mini SIM - 2FF), 1.8 V/3 V, external SIM holder, eSIM (Optional)	
Power	1 x 4-pin power connector	
Antennas	2 x SMA for LTE, 1 x RP-SMA for Wi-Fi	
Reset	Reboot/User default reset/Factory reset button	

### PHYSICAL SPECIFICATION

Casing material	Aluminum housing, plastic panels
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	130 g
Mounting options	DIN rail, flat surface placement

### **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/RED, UKCA, UCRF, RCM, EAC, WEEE

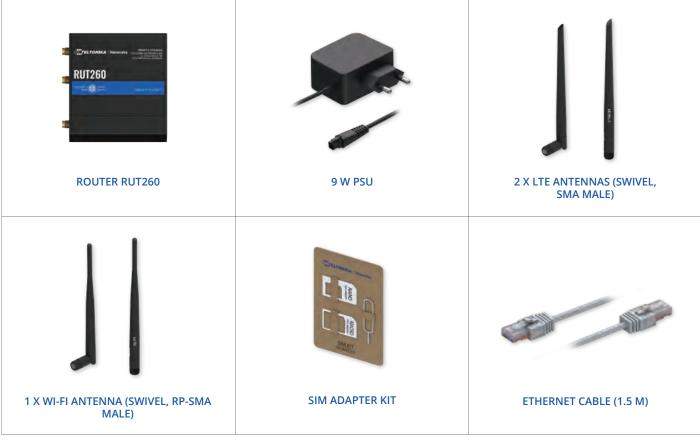


# WHAT'S IN THE BOX?

### STANDARD PACKAGE CONTAINS\*

- Router RUT260
- 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





<sup>\*</sup> 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
RUT260000000	851762	8517.62.00	Standard package with Euro PSU

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

# **AVAILABLE VERSIONS**

PRODUCT CODE	REGION (OPERATOR)	FREQUENCY
RUT260 0****	Europe¹, the Middle East, Africa, Australia, New Zealand	<ul> <li>4G (LTE-FDD): B1, B3, B5, B7, B8, B20, B28, B32</li> <li>4G (LTE-TDD): B38, B39, B40, B41, B42, B43</li> <li>3G: B1, B3, B5</li> </ul>

The price and lead-times for region (operator) specific versions may vary. For more information please contact us. 1 - Regional availability - excluding Russia & Belarus.



## **RUT260 SPATIAL MEASUREMENTS & WEIGHT**

### **MAIN MEASUREMENTS**

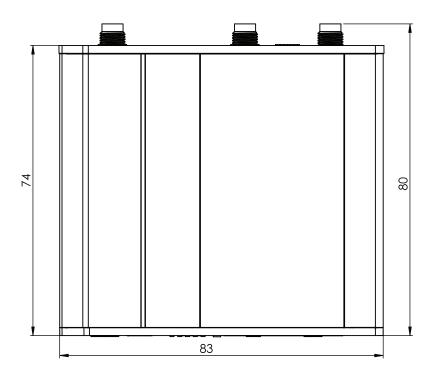
W x H x D dimensions for RUT260:

Device housing\*: 83 x 25 x 74 mm

Box: 173 x 71 x 148 mm

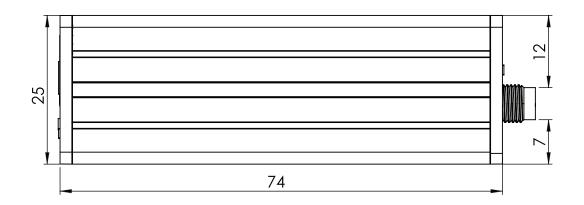
### **TOP VIEW**

The figure below depicts the measurements of RUT260 and its components as seen from the top:



### **RIGHT VIEW**

The figure below depicts the measurements of RUT260 and its components as seen from the right side:  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}$ 

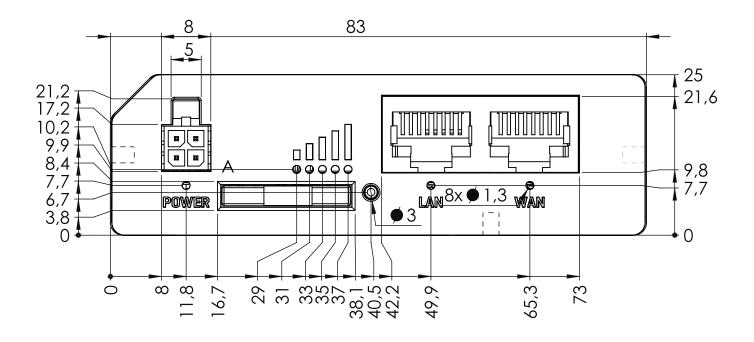


<sup>\*</sup>Housing measurements are presented without antenna connectors and screws; for measurements of other device elements look to the sections below.



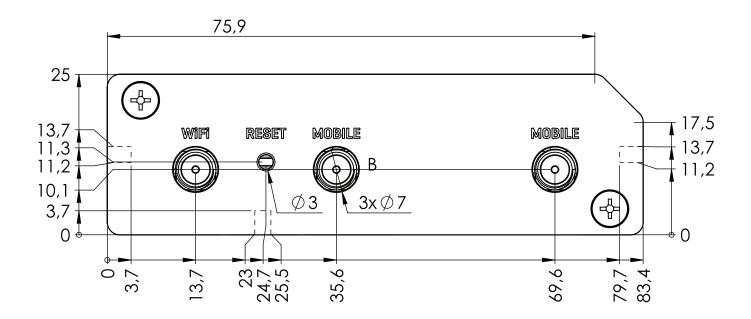
### **FRONT VIEW**

The figure below depicts the measurements of RUT260 and its components as seen from the front panel side:



### **REAR VIEW**

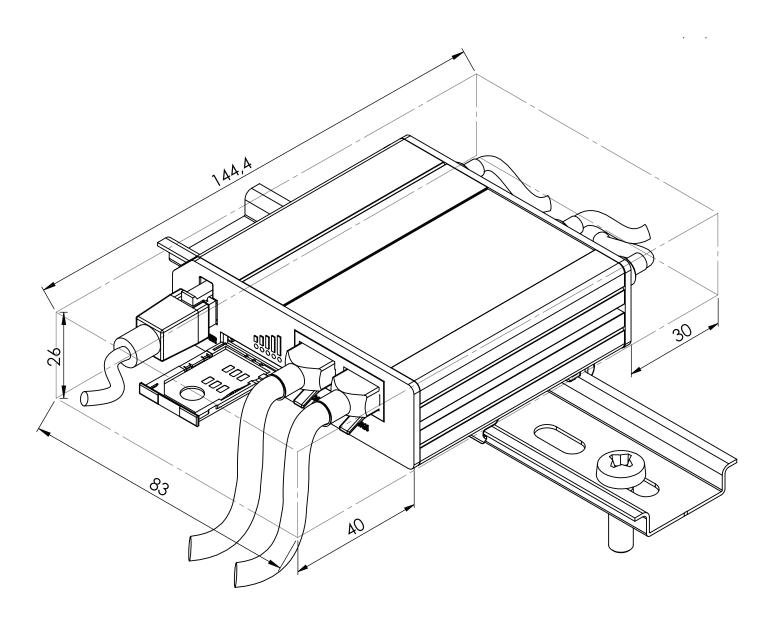
The figure below depicts the measurements of RUT260 and its components as seen from the back panel side:





### 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:

