

RUT955™

LTE CAT4 Industrial Cellular Router

Equipped with Dual-SIM, 4 x Ethernet, WiFi and RS232, RS485, USB interfaces and Inputs/Outputs.

RUT955 comes with RutOS advanced software features such as Modbus, SNMP, TR-069, NTRIP, MQTT protocol support and custom GNSS tracking protocol that is compatible with Global AVL tracking platforms



RUT955 Prime Applications

- » Digital Signage (*Relay output can be used to reboot advertising screens*)
- » CCTV
- » Telemetry applications including Modbus / SCADA
- » Energy monitoring / Smart Grid
- » Legacy RS232/485 applications

RUT955 Features

- » LTE Cat 4 with speeds up to 150 Mbps
- » Dual SIM for network resilience in high availability applications
- » GNSS positioning and Location tracking with geofencing functionality
- » 4 x 10/100 Ethernet ports with VLAN functionality
- » RS232/RS485 serial communication interfaces
- » Multiple Inputs/Outputs for remote monitoring and control
- » Teltonika Remote Management System compatible
- » Remote diagnostics via SMS commands
- » 3 alternative internet sources
- » Connection watchdog
- » All necessary physical interfaces in one device
- » Supports wide range of industrial networking protocols
- » Multiple VPN options (IPSec, DMVPN, OpenVPN)
- » Embedded Firewall

RUT955 Dual SIM 4G/LTE router with IO

The RUT955 V2 Dual SIM router combines both 4G & 3G technology with up to 100Mbps download and 50Mbps upload in to a rugged, compact footprint. The integrated 802.11b/g/n Access Point and integrated 4-port 10/100 Ethernet Switch allows the 4G connection to be shared by wired or wireless devices. A simple to use web management GUI with first-time Setup Wizard allows this unit to be configured with ease.

The Teltonika RUT955 is supplied with two 4G Magnetic mount antennas for good out of the box reception, but larger external antennas can be installed on to it's SMA female antenna connectors if required.

Link Resilience with Ping Reboot

The ability for a 4G/LTE router to maintain its' Internet connection is often over looked, but this ability is essential if the router is going to be installed in unmanned locations or areas where access to equipment is difficult. Nucleus Networks worked closely with Teltonika to implement a new feature called 'Ping Reboot', where the router automatically reboots itself if the router goes offline for a configurable level of time. This feature eliminates the need to visit site to reboot the router if there have been temporary cell mask issues or intermittent levels of network coverage.

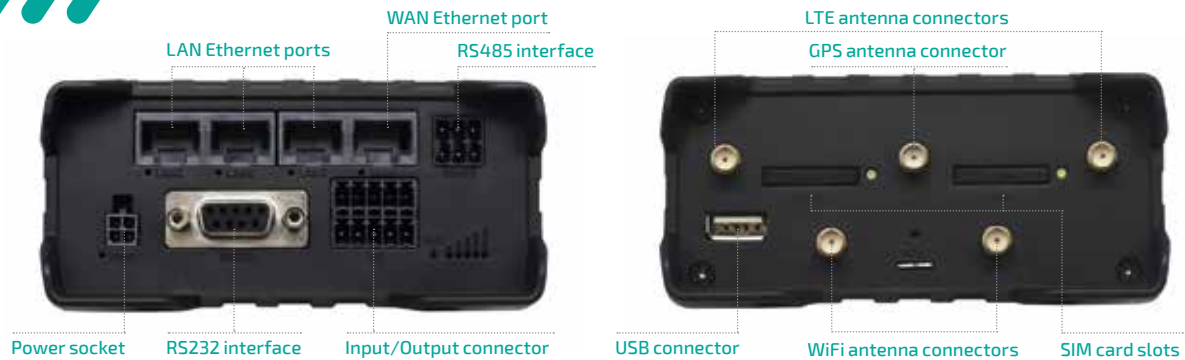
The router also supports SMS status and Reboot commands that allow the router to be interrogated for current signal level or rebooted via SMS. These powerful remote diagnostic tools could prevent a site visit by an engineer, lowering maintenance costs.

Remote Management System (RMS)

The RUT955 supports the Teltonika Remote Management System (RMS). A monthly subscription allows you to take control of your router portfolio, monitoring signal levels and device activity through a central management system, lowering your TCO.

Frequency Band support

4G (LTE-FDD)	B1, B3, B5, B7, B8, B20
4G (LTE-TDD)	B38, B40, B41
3G	B1, B5, B8
2G	B3, B8



Technical Specifications

Specifications subject to change without notice

Hardware

Mobile	4G (LTE) – Cat 4 DL up to 150 Mbps, UL up to 50 Mbps; DC-HSPA+; UMTS; TD-SCDMA; EDGE; GPRS
CPU	Atheros Wasp, MIPS 74Kc, 550 MHz
Memory	16 MBytes Flash, 128 MBytes DDR2 RAM
Ethernet	4 x 10/100 Ethernet ports: 1 x WAN (configurable as LAN), 3 x LAN ports
Power supply	9 – 30 VDC, 4 pin DC connector
PoE (passive)	Passive PoE over spare pairs. Possibility to power up through LAN port, not compatible with IEEE802.3af and 802.3at standards
Inputs	3 x Inputs (Digital, Digital galvanically isolated, Analog) + 1 Digital Input on power connector
Outputs	2 x Outputs (30 V, 250 mA digital open collector output / 24 V, 4 A SPST relay output) + 1 Digital O.C. Output on power connector
Connectors	1 x 4 pin DC, 4 x Ethernet, 2 x Mobile SMA, 2 x WiFi RP-SMA, 1 x GPS SMA, 1 x RS232, 1 x 6 pin RS485, 1 x 10 pin I/O, USB 2.0
Memory Card	microSD, Hinge Type slot
SIM	2 x external SIM holders
Status LEDs	1 x bi-color connection status, 5 x connection strength, 4 x LAN status, 1x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing, plastic panels
Dimensions	100 mm x 110 mm x 50 mm
Weight	287 g

Software

Operating system	RutOS (OpenWrt based Linux OS)
SIM switch	2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail
Multiple PDN	Possibility to use different PDNs for multiple network access and services
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DHCP, DNS, HTTP, HTTPS, SSL v3, TLS, ARP, PPPoE, UPNP, SSH, Telnet, SNMP
Networking features	NAT, Static/Dynamic routing, Firewall, OpenVPN, IPsec, H.323 and SIP-alg protocol NAT helpers, allowing proper routing of VoIP packets
Unique networking features	VLAN, Load balancing, Mobile quota control, WEB Filter, Load Balancing, Network Backup, Auto Failover
Connection monitoring	Ping Reboot, Periodic Reboot, Wget Reboot, LCP and ICMP for link inspection
Authentication	Pre-shared key, digital certificates, X.509 certificates
Keep settings	Update FW without losing current configuration
Monitoring & Management	WEB UI, SSH, SMS, SNMP, JSON-RPC, FOTA, RMS
Supported languages	Busybox shell, Lua, C, C++
Development tools	SDK package with build environment provided

The RUT955 includes two year warranty as standard.
Additional warranty available.

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