RUT240™

LTE CAT4 Industrial Cellular Router

Compact, robust and powerful device tailored for Industrial M2M/IoT applications. RUT240 is equipped with 2 x Ethernet and Wireless interfaces with Hotspot functionality.

Device provides secure and stable Internet connectivity for Industrial applications using RutOS software and security features such as OpenVPN, IPsec, Firewall, Hotspot, SMS control and RMS support.

RUT240 Prime Applications

The Teltonika RUT240 4G/LTE router is ideal for many applications including - CCTV, Digital Signage and many Telemetry applications.

RUT240 Features

- » LTE Cat 4 with speeds up to 150 Mbps
- » 4G Failover - Automatic switching to SIM Backup connection
- » Wireless Access Point with Hotspot functionality
- » Compact size, easy integration
- » Digital Input/Output for remote monitoring and control
- » Teltonika Remote Management System compatible
- » 2 alternative internet sources
- » Connection watchdog
- » Multiple VPN options (IPSec, OpenVPN, L2TP)
- » Remote diagnostics via SMS commands
- » Embedded firewall

RUT240 4G/LTE router with WiFi

The RUT240 supports 4G technology with up to 100Mbps download and 50Mbps upload in to a rugged, ultra compact footprint. The integrated 802.11b/g/n Access Point and integrated 2-port 10/100 Ethernet Switch allow 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 router is backwards compatible with 3G networks if no 4G coverage is available.

The Teltonika RUT240 is supplied with two 4G stick 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.
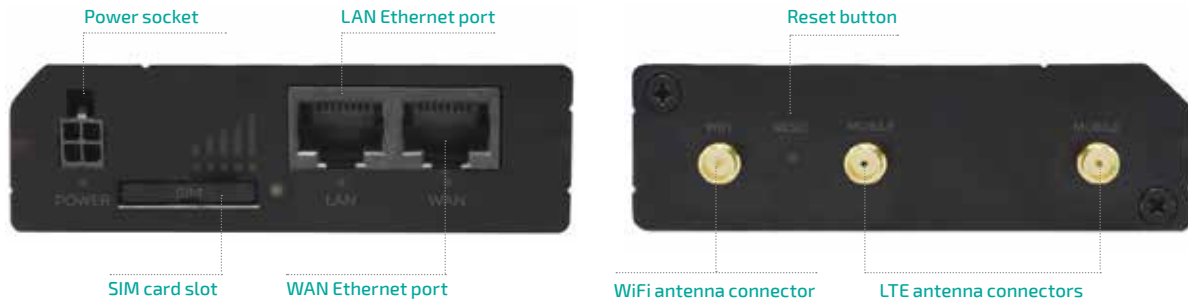
Link Resilience with Ping Reboot

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. The Teltonika 'Ping Reboot' 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 RUT240 4G/LTE router 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

Power socket   LAN Ethernet port   Reset button

SIM card slot   WAN Ethernet port   WiFi antenna connector   LTE antenna connectors

Technical Specifications

Specifications subject to change without notice

Hardware

Mobile	4G (LTE) Cat 4 DL up to 150 Mbps, UL up to 50Mbps; DC-HSPA+; UMTS; TD-SCDMA; EDGE; GPRS
CPU	Atheros Hornet, MIPS 24Kc, 400 MHz
Memory	16 MBytes Flash, 128 MBytes DDR2 RAM
Ethernet	2 x 10/100 Ethernet ports: 1 x WAN (configurable as LAN), 1 x LAN
Power supply	9 – 30 VDC, 4 pin DC connector
PoE (passive)	Passive PoE over spare pairs (available from HW revision 0007 and batch number 0010). Possibility to power up through LAN port, **not compatible** with IEEE802.3af and 802.3at
Inputs/Outputs	1 x Digital Input, 1 x Digital Open Collector Output on power connector
Connectors	1 x 4 pin DC, 2 x Ethernet, 2 x Mobile SMA, 1 x WiFi RP-SMA
SIM	1 x external SIM holder
Status	LEDs 2 x connection type status, 5 x connection strength, 2 x LAN status, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing, plastic panels
Dimensions	83 mm x 74 mm x 25 mm
Weight	125 g

Software

Operating system	RutOS (OpenWrt based Linux OS)
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, 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 RUT240 includes two year warranty as standard. Additional warranty available.