ComX Computers
Product Specification Sheet

TTK-RUT202

Teltonika RUT202 Compact Industrial Dual SIM Router

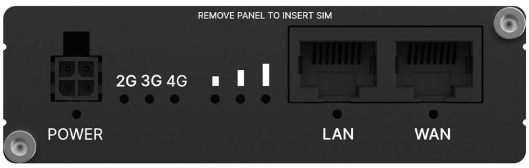
Product Overview

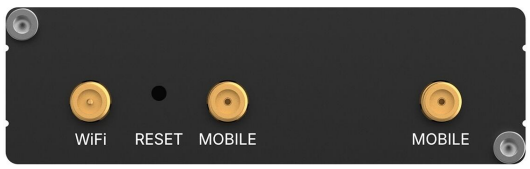
Teltonika RUT202 Compact Industrial Dual SIM Router, 1x WAN and 1x LAN Ethernet Port with 10/100 Mbps Speed, Built-In LTE CAT 4 Mobile module supporting up to 150 DL/50 UL Mbps Download speeds, Dual SIM slot Configuration with Automatic failover switching, 802.11n Wi-Fi Access Point capability, Aluminium housing designed for Compact and Embedded installations, Compatible with RMS Platform for centralized device Management, Includes SSL/TLS Encryption and Firewall protection features











Specifications

Summary Overview:

Ensure your business stays connected with the Teltonika RUT202, a compact industrial dual SIM LTE Cat 4 router designed specifically for reliable performance in South Africa. This rugged device features automatic network failover to prevent interruptions, making it ideal for critical operations where downtime is not an option. Its space-efficient aluminum housing fits perfectly into tight or embedded installations while supporting both wired Ethernet and wireless Wi-Fi setups.

Equip your infrastructure with the power of dual SIM redundancy and internal SIM security in a single easy-to-deploy unit. Whether you need stable connectivity for remote sites or robust networking for industrial applications, this router delivers consistent results. Order yours today to upgrade your network reliability and buy now.

Performance tier: Industrial Grade

Uses: Remote monitoring, IoT connectivity, emergency backup internet, field operations, secure data transmission

Overview:

The Teltonika RUT202 is a compact industrial dual SIM router designed to deliver stable and continuous connectivity for demanding environments. This robust device features an 802.11n built-in access point, making it ideal for flexible wired and wireless setups in tight spaces. Its space-efficient aluminium housing fits easily into embedded installations while ensuring the internal components remain secure. With two SIM slots and automatic failover capabilities, the RUT202 ensures network redundancy to prevent interruptions, combining dual SIM support with centralized control via the RMS platform for seamless configuration and data collection.

Description:

The Teltonika RUT202 (Part Number TTK-RUT202) is a high-performance industrial router engineered for reliability in critical applications. It offers seamless connectivity through dual SIM slots with automatic failover, ensuring your network stays online even if one carrier fails. The device combines LTE Cat 4 speeds with integrated Wi-Fi, providing versatile options for connecting multiple devices. Its compact aluminium design allows for easy installation in constrained spaces, while built-in security features and centralized management tools simplify deployment and maintenance.

Features:

Key Features

- Dual SIM slots with automatic failover to prevent network interruptions

- Compact industrial aluminium housing suitable for embedded installations
- Built-in 802.11n Wi-Fi access point for wireless connectivity
- Centrally managed via RMS platform for easy configuration and monitoring
- Dual Ethernet ports supporting flexible wired setups
- Robust security with firewall, VPN support, and attack prevention

Designed for robust performance, the RUT202 supports up to 50 simultaneous Wi-Fi connections and includes advanced wireless features like fast roaming and QR code generation for easy network access. The mobile module delivers LTE Cat 4 speeds of up to 150 Mbps downlink, ensuring high-speed data transmission even in challenging conditions. Users can manage SIM cards with PIN codes, set APN configurations automatically, and utilize detailed status reporting to monitor signal strength and connection states.

Connectivity and Network Capabilities

- Mobile module supports 4G LTE Cat 4 up to 150 DL / 50 UL Mbps
- Dual Ethernet ports: 1 x WAN and 1 x LAN, both 10/100 Mbps with auto MDI/MDIX
- Routing protocols include static routing, BGP, OSPF, RIP, EIGRP, and policy-based routing
- Supports IPv4 and IPv6 with comprehensive network protocols like SSH, SSL/TLS, and MQTT
- Voice over IP passthrough support for H.323 and SIP-alg NAT helpers

The router excels in network security and management, offering a built-in firewall with port forwarding, traffic rules, and custom rule creation. It supports multiple VPN protocols including OpenVPN, IPsec, WireGuard, and ZeroTier, allowing for secure remote access and site-to-site connections. Advanced features like DNS over HTTPS, dynamic DNS for over 77 providers, and load balancing across WAN connections ensure reliable and optimized network performance.

Security and Management

- Comprehensive firewall with attack prevention against DDoS, port scans, and brute force attempts
- Supports X.509 certificates, RADIUS authentication, and IP blocking for enhanced security
- Centralized management via Site Manager for device pairing, FOTA updates, and status monitoring
- Web UI accessible via HTTP/HTTPS with CLI support and detailed event logging
- TR-069 compatibility for remote management across major ACS platforms

For industrial applications requiring specific protocol support, the RUT202 includes native integration for OPC UA, BACnet, Modbus TCP, DNP3, and DLMS/COSEM. These capabilities allow it to function effectively as a gateway or controller in smart grid and building automation systems. The device also supports data transmission to servers via HTTP(S) and MQTT, with custom Lua scripting options for tailored data extraction and processing.

What's in the box:

- Teltonika RUT202 Router unit
- Power adapter with DC input connector
- Mounting kit including screws and brackets
- User manual and quick start guide

The Teltonika RUT202 stands out as a versatile solution for industries requiring reliable, secure, and flexible connectivity. Whether deployed in remote monitoring stations, transportation fleets, or industrial facilities, this router delivers consistent performance with minimal maintenance requirements. Its combination of dual SIM redundancy, compact design, and extensive protocol support makes it a top choice for critical IoT deployments.

Specifications:

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Specifications	
Product Code	TTK-RUT202
Mobile	
Mobile module	4G LTE Cat 4 up to 150 DL/50 UL Mbps , 3G up to 21 DL/5.76 UL Mbps , 2G up to 236.8 DL/236.8 UL kbps
3GPP Release	Release 9
SIM switch	2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail
Status	IMSI, ICCID, operator, operator state, data connection state, network type, bandwidth, connected band, signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, data sent/received, LAC, TAC, cell ID, ARFCN, UARFCN, EARFCN, MCC, and MNC
SMS	SMS status, SMS configuration, 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
Block/Allow list	Operator block/allow list (by country or separate operators)
Band management	Band lock, Used band status display
SIM PIN code management	SIM PIN code management enables setting, changing, or disabling the SIM card's PIN
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	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	SSID stealth mode and access control based on MAC address
Wi-Fi users	Up to 50 simultaneous connections
Wireless Connectivity Features	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 port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX 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, SNMP, MQTT, Wake On Lan (WOL), VXLAN
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, TTL target customisation
Firewall status page	View all your Firewall statistics, rules, and rule counters
Port 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
DHCP	Static and dynamic IP allocation, DHCP relay, DHCP server configuration, status, static leases: MAC with wildcards
QoS / Smart Queue Management (SQM)	Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e
DDNS	Supported >77 service providers, others can be configured manually
DNS over HTTPS	DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS
Network backup	Wi-Fi WAN, Mobile, VRRP, Wired options, each of which can be used as an automatic Failover
Load balancing	Balance Internet traffic over multiple WAN connections
SSHFS	Possibility to mount remote file system via SSH protocol
Traffic Management	Real-time monitoring, wireless signal charts, traffic usage history
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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
Hotspot 2.0	Hotspot 2.0 is a Wi-Fi standard that enables seamless, secure, and automatic connection to trusted wireless networks
Security	
Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, IP & login attempts block, time-based login blocking, 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
Mobile quota control	Mobile data limit, customizable period, start time, warning limit, phone number
WEB filter	Block list for blocking out unwanted websites, allow list for specifying allowed sites only

Access control	Flexible access control of SSH, Web interface, CLI and Telnet
Certificate Manager	Certificate creation tool allows to create CA, server, client, let's encrypt, SCEP certificates
802.1x	Port-based network access control server
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-192-OFB 192, AES-192-CBC 192, AES-192-GCM 192, AES-256-GCM 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-OFB 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.
OpenConnect	Cross-platform multi-protocol SSL VPN client which supports a number of VPN protocols
EoIP	Ethernet over IP (EoIP) tunnelling is a protocol based on GRE RFC 1701 that creates an Ethernet tunnel between two routers on top of an IP connection
OPC UA	
Supported modes	Client, Server
Supported connection types	TCP
BacNET	
Supported modes	Router
Supported connection types	TCP
Configuration options	Support for multiple BACnet/IP interfaces, Network number assignment, Preconfigured BDT entries for BBMD (BACnet Broadcast Management Device)
MODBUS	
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 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 to 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
DLMS/COSEM	
DLMS Support	DLMS - standard protocol for utility meter data exchange
Supported modes	Client
Supported connection types	TCP
Site Manager	
Supported modes	Manager
Functionalities	Centralized management of TAP access points and Teltonika's managed switches - including device pairing and grouping, FOTA updates, device status monitoring, automatic reboot scheduling with ping/wget health checks, wireless SSID configuration, and VLAN assignment across the site.
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)
SMS	SMS status, SMS configuration
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, Brute force protection
JSON-RPC	Management API over HTTP/HTTPS
RMS	Teltonika Remote Management System (RMS)
IoT Platforms	
ThingWorx	Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type
Cumulocity - Cloud of Things	Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength. 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 IoT Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT Hubs
AWS IoT Core	Utility to interact with the AWS cloud platform. Jobs Support: Call the device's API using AWS Jobs functionality
System Characteristics	
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
FLASH storage	32 MB, SPI 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 user 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 clients' needs
Package Manager	The Package Manager is a service used to install additional software on the device
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 , 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	< 6.5 W Max
Physical Interfaces	
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, 3 x Connection strength LEDs, 2 x LAN status LEDs, 1 x Power LED
SIM	2 x SIM slot (Mini SIM - 2FF), 1.8 V/3 V, internal SIM holders
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	Anodised aluminium housing and panels
Dimensions (W x H x D)	83 x 25 x 83 mm
Weight	130 g
Mounting options	DIN rail, wall mount, flat surface (all require additional kit)
Operating Environment	
Operating temperature	-40 degreesC to 75 degreesC
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30

FAQ

Is the Teltonika RUT202 suitable for embedded installations in tight spaces?
The device features a compact, space-efficient aluminium housing specifically designed to fit easily into tight or embedded industrial installations.

How does the router ensure stable connectivity if one network fails?
The RUT202 includes dual SIM slots with automatic failover that switches networks in cases of weak signal, data limits, roaming, or connection failures to prevent interruptions.

Can I connect multiple devices wirelessly and manage their access securely?
Yes, the built-in 802.11n Access Point supports up to 50 simultaneous connections and offers robust security features including WPA3, MAC address filtering, and captive portal capabilities.

Is it possible to manage multiple routers from a single location?
Yes, you can leverage the RMS platform for centralized control, allowing you to configure devices, maintain VPN access, monitor status, and collect data across your entire network.

What types of connections does this router support besides LTE and Wi-Fi?
The unit includes one 10/100 Mbps WAN port and one LAN port, supporting both wired setups via Ethernet and flexible configurations using mobile or WiFi as backup links.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://comx-computers.co.za/TTK-RUT202-Teltonika-RUT202-Compact-Industrial-Dual-SIM-Router-p-342554.php

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