ComX Computers
Product Specification Sheet

TTK-RUT204

Teltonika RUT204 CAN Bus LTE Router

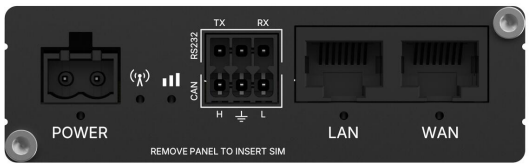
Product Overview

Teltonika RUT204 CAN Bus LTE Router, LTE CAT 4 up to 150 DL Mbps and 50 UL Mbps connectivity, Dual SIM Card slots with Auto-Switch capability, Native can fd Hardware Interface for machine Data, GNSS module included for asset Tracking, 802.11n Wi-Fi 4 Access Point mode support, Up to 50 simultaneous Wi-Fi user connections, 1x 10/100 Mbps WAN Ethernet Port, 1x 10/100 Mbps LAN Ethernet Port, 9 - 57 VDC wide Power Input range, PoE-in support for Flexible installation, RS232 Serial Interface included, RutOS Embedded Operating System with RMS Remote Management











Specifications

Summary Overview:

Secure reliable machine-to-machine communication with the Teltonika RUT204, a rugged industrial LTE router designed specifically for demanding South African fleets and remote sites. This compact solution combines native CAN FD hardware with Cat 4 LTE to ensure direct, encrypted data transmission without needing external converters. Whether you need GNSS asset tracking or seamless Wi-Fi connectivity, this device offers the robust performance required for modern fleet management and operational efficiency.

Equip your business with zero-touch deployment capabilities via RutOS and RMS, allowing you to monitor and manage devices remotely while reducing on-site complexity. With support for extensive protocols including IPsec VPN, MQTT, and BACnet, it integrates perfectly into existing industrial ecosystems. Order yours today to upgrade your connectivity infrastructure and ensure uninterrupted data flow across your entire operation.

Performance tier: Industrial Grade

Uses: Fleet management, asset tracking, machine data collection, remote monitoring, secure IoT connectivity, CAN bus gatewaying

Overview:

Teltonika RUT204 Industrial LTE Router with CAN Bus Support
The Teltonika RUT204 is a purpose-built industrial router designed to streamline machine data connectivity for mobile and stationary applications. By integrating native CAN FD hardware directly into the chassis, this device enables secure transmission of Controller Area Network data over LTE Cat 4 networks without requiring external converters. This unique capability simplifies deployment in complex environments where direct access to machine data is critical. The unit combines robust cellular connectivity with GNSS positioning for precise asset tracking, while built-in Wi-Fi 4 and dual SIM slots ensure reliable communication even in areas with variable signal strength.

Description:

The RUT204 offers a comprehensive solution for industrial IoT needs, featuring a wide operating voltage range of 9 to 57 VDC to accommodate diverse power sources. Its embedded RutOS and RMS support allow for zero-touch deployment and remote fleet management, significantly reducing operational complexity. With interfaces including RS232, Ethernet, and PoE-in, this router simplifies industrial installations while providing the flexibility required for modern data logging and cloud integration.

Engineered for durability and performance, the RUT204 supports extensive network protocols and security standards to protect sensitive data during transmission. The device facilitates remote monitoring and scalable fleet management through advanced software capabilities, making it an ideal choice for logistics, transportation, and heavy machinery applications where

reliability is paramount.

Features:

Key Connectivity Features

- Native CAN FD hardware for direct machine data access without external converters
- Dual SIM slots with automatic switching based on signal strength or data limits to ensure constant uptime
- GNSS module integrated for accurate asset tracking and location services
- Wi-Fi 4 (802.11n) Access Point supporting up to 50 simultaneous connections
- PoE-in capability and wide DC input range from 9V to 57V for flexible power options

The hardware specifications support high-speed data transfer with LTE Cat 4 connectivity offering download speeds up to 150 Mbps. The device includes a dedicated WAN port and a LAN port, both supporting 10/100 Mbps speeds with auto MDI/MDIX crossover functionality. For serial communication needs, an RS232 interface is included alongside the Ethernet ports, allowing for seamless integration with legacy industrial equipment.

Safety and security are top priorities in the design of this router. It includes a robust firewall with customizable rules, port forwarding capabilities, and protection against various network attacks such as SYN floods and port scans. The device supports multiple VPN protocols including OpenVPN, IPsec, WireGuard, and SSTP, ensuring secure tunneling for remote access and data transmission.

Advanced management tools are built into the RutOS operating system, enabling administrators to perform firmware updates remotely via FOTA and monitor device status in real-time. The interface supports TR-069 protocols for enhanced service provider integration and allows for detailed configuration through a web UI or CLI. Users can also utilize SMS commands for basic control tasks like rebooting the unit or toggling interfaces.

The RUT204 handles complex industrial protocol requirements with native support for Modbus, BACnet, OPC UA, DNP3, and DLMS/COSEM. This versatility allows it to act as a gateway between various field devices and cloud platforms, extracting parameters from multiple sources and sending them securely to servers using HTTP(S) or MQTT protocols.

What's in the box:

- Teltonika RUT204 Router unit (Part Number: TTK-RUT204)
- Power adapter for DC input connection
- Mounting kit with screws and brackets for DIN rail or wall installation
- Rapid start guide for initial setup

This product includes the specific part number TTK-RUT204, which identifies this exact configuration of the Teltonika industrial router series. When ordering replacements or spare units, referencing this code ensures compatibility with existing network infrastructure and software configurations.

The device is capable of load balancing across multiple WAN connections to optimize bandwidth usage and provide redundancy in case one connection fails. Network backup options include failover support for Wi-Fi, mobile, wired, and VRRP configurations, ensuring continuous operation even during connectivity interruptions.

Specifications:

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, SIM idle protection

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 idle protection service	Provides the possibility to configure the router to periodically switch to the unused SIM card and establish a data connection in order to prevent the SIM card from being blocked
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, 802.3az 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 v3, 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
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
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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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.
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
OpenConnect	Cross-platform multi-protocol SSL VPN client which supports a number of VPN protocols
BacNET	
Supported modes	Router
Supported connection types	IP
Configuration options	Support for multiple BACnet/IP interfaces, Network number assignment, Preconfigured BDT entries for BBMD (BACnet Broadcast Management Device)
OPC UA	
Supported modes	Client, Server
Supported connection types	TCP
MODBUS	
Supported modes	Server, Client
Supported connection types	RTU(RS232)
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	TCP Master, DNP3 Outstation
Supported connection types	RTU(RS232)
DLMS/COSEM	
DLMS Support	DLMS - standard protocol for utility meter data exchange
Supported modes	Client
Supported connection types	TCP, RTU(RS232)
CAN	
CAN Gateway	Allows forwarding CAN frames over IP networks.
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, NOR 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
Location Tracking	
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Coordinates	GNSS coordinates via WebUI, SMS, TAVL, RMS
NMEA	NMEA 0183
NTRIP	NTRIP protocol (Networked Transport of RTCM via Internet Protocol)
Server software	Supported server software TAVL, RMS
Geofencing	Configurable multiple geofence zones
Serial	
RS232	RS232 only TX and RX signals
CAN	Integrated CAN interface
Serial functions	Console, Serial over IP, Modem, MODBUS gateway, NTRIP Client
Input/Output	
Events	Email, RMS, SMS
SD CARD	
Physical size	Micro SD (internal)
Applications	Samba share
Capacity	Up to 2 TB
Storage formats	FAT32, NTFS, ext2, ext3, ext4

POE IN	
PoE ports	1 x PoE In
PoE standards	Active PoE input 802.3af Class 0 (12.94 W) on LAN port
Power	
Connector	2-pin industrial DC power socket
Input voltage range	9 - 57 VDC, reverse polarity protection 100 V max, surge protection min 64.4 V/max 71.2 V breakdown voltage, 93.6 V max reverse voltage @ 4.3 A max reverse surge current
PoE (passive)	Passive PoE over spare pairs 4,5 (+) / 7,8 (-). Possibility to power up through LAN port, passive PoE voltage: 16 - 57 VDC
Power consumption	Idle: < 2 W, Max: < 3.5 W
Physical Interfaces	
Ethernet	2 x RJ45 ports, 10/100 Mbps
Status LEDs	1 x Connection type status RGB LED, 1 x Connection strength RGB LED, 2 x ETH status LEDs, 1 x Power LED
SIM	2 x internal SIM slots (Mini SIM - 2FF), 1.8 V/3 V, double stacked SIM tray
Power	1 x 2-pin power connector
Antennas	2 x SMA for Mobile, 1 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
RS232, CAN	1 x 6-pin terminal block
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	140 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 this router suitable for industrial applications requiring direct access to machine data?
Yes, the Teltonika RUT204 is designed with native CAN FD hardware that enables direct and secure transmission of CAN data without needing external converters.

Can I use two different SIM cards for network redundancy or failover?
Yes, the device features 2 x SIM slots with auto-switch capabilities that activate during weak signal, data limit, roaming, or connection failure scenarios to ensure continuous connectivity.

What is the power supply range required to operate this router?
The RUT204 supports a wide DC input voltage range of 9 - 57 VDC and can also be powered via PoE-in for flexible installation options.

Does this device support remote fleet management without physical access?

Yes, the embedded RutOS and RMS support zero-touch deployment and allow you to monitor devices and manage fleets remotely to reduce operational complexity.

What wireless security standards are supported for the built-in Wi-Fi 4 Access Point?
The router supports robust Wi-Fi security protocols including WPA2-PSK, WPA3-SAE, EAP-TLS with certificates, and Protected Management Frames (PMF) to secure up to 50 simultaneous connections.

Product Information Online

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

Product page: https://www.comx.co.za/TTK-RUT204-Teltonika-RUT204-CAN-Bus-LTE-Router-p-342553.php

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