

TTK-RUT901

Teltonika RUT901 Industrial LTE Wi-Fi IoT Router with Dual SIM - auto failover & Backup WAN

Product Overview

Teltonika RUT901 Industrial LTE Wi-Fi IoT Router with Dual SIM - auto failover & Backup WAN, 4G (LTE) CAT 4 up to 150 Mbps, 3G up to 42 Mbps, 2 SIM cards, 1x WAN Port 10/100 Mbps, 3x LAN Ports 10/100 Mbps



Specifications

Overview:

RUT901 - INDUSTRIAL CELLULAR ROUTER

The RUT901 cellular router delivers the top-rated features of its predecessors, the RUT950 and RUT951, to the market. The device ensures high-performance, providing automatic WAN failover to an available backup connection, guaranteeing network continuity and eliminating downtime.

CONNECTIVITY

4G LTE (Cat 4), 3G, 2G

DUAL SIM

With auto failover, backup WAN and other switching scenarios

WI-FI

Wireless Access Point with Hotspot functionality

PROTOCOLS

Multiple protocols supported including MQTT, Modbus TCP, DNP3

Specifications:

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Specifications	
Product Code	TTK-RUT901
MOBILE	
Mobile module	4G (LTE) - Cat 4 up to 150 Mbps, 3G - Up to 42 Mbps, 2G - Up to 236.8 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	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
SIM idle protection service	When working with devices with two SIM slots, the one not currently in use will remain idle until the device switches to it, meaning that no data is used on the card until then
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	

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Wireless mode	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
Wi-Fi security	WPA-PSK/WPA2-PSK Mixed Mode, WPA2-PSK, WPA2-EAP, WPA2-EAP/WPA3-EAP Mixed Mode, WPA3-EAP, WPA2-PSK/WPA3-SAE Mixed Mode, WPA3-SAE, OWE, AES-CCMP, TKIP, Auto Cipher modes, client separation
SSID/ESSID	SSID stealth mode and access control based on MAC address
Wi-Fi users	Up to 100 simultaneous connections
Wireless Connectivity Features	Fast roaming (802.11r), Relayd
Wireless MAC filter	Whitelist, blacklist
Wireless QR code generator	Once scanned, a user will automatically enter your network without needing to input login information.
NETWORK	
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 and option to upload and download customised hotspot themes
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)
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
Firewall status page	View all your Firewall statistics, rules, and rule counters
Ports 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
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 and option to upload and download customised hotspot themes
DHCP	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	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 (not available in standard FW)
ETHERNET	
WAN	1 x WAN port 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX

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LAN	3 x LAN ports, 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
SECURITY	
Authentication	Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & Login attempts block
Firewall	Pre-configured firewall rules can be enabled via WebUI, unlimited firewall configuration via CLI, DMZ, NAT, NAT-T
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	Blacklist for blocking out unwanted websites, Whitelist for specifying allowed sites only
Access control	Flexible access control of SSH, Web interface, CLI and Telnet
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	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
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.
MODBUS TCP SLAVE	
ID range	Respond to one ID in range [1, 255] or any
Allow Remote Access	Allow access through WAN
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
MODBUS TCP MASTER	
Supported functions	01, 02, 03, 04, 05, 06, 15, 16

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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)
DATA TO SERVER	
Protocol	HTTP(S), MQTT, Azure MQTT, Kinesis
Data to server	Extract parameters from multiple sources and different protocols, and send them all to a single server
MQTT GATEWAY	
MQTT Gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
DNP3	
Supported modes	TCP Master, DNP3 Outstation
DLMS	
DLMS Support	DLMS - standard protocol for utility meter data exchange
MONITORING & MANAGEMENT	
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
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
SYSTEM CHARACTERISTICS	
CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
FLASH storage	16 MB, SPI Flash
FIRMWARE / CONFIGURATION	
WEB UI	Update FW from file, check FW on server, configuration profiles, configuration backup

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FOTA	Update FW
RMS	Update FW/configuration for multiple devices at once
Keep settings	Update FW without losing current 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.
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	< 2 W idle, < 7 W Max
PHYSICAL INTERFACES	
Ethernet	4 x RJ45 ports, 10/100 Mbps
I/O's	1 x Digital Input, 1 x Digital Output on 4-pin power connector
Status LEDs	1 x Bi-color connection status, 5 x Mobile connection strength, 4 x ETH status, 1 x Power
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders, eSIM (Optional)
Power	1 x 4-pin power connector
Antennas	2 x SMA for LTE, 2 x RP-SMA for Wi-Fi antenna connectors
Reset	Reboot/User default reset/Factory reset button
PHYSICAL SPECIFICATION	
Casing material	Aluminium housing, plastic panels
Dimensions (W x H x D)	110 x 50 x 100 mm
Weight	297 g
Mounting options	DIN rail (can be mounted on two sides), flat surface placement
OPERATING ENVIRONMENT	
Operating temperature	-40 degreesC to 75 degreesC
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30

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REGULATORY & TYPE APPROVALS	
Regulatory	CE, UKCA, IMDA, Anatel, RCM, E-mark, ECE R118, CB, RoHS, REACH
EMC EMISSIONS & IMMUNITY	
Standards	EN 55032:2015 + A11:2020 + A1:2020
	EN 55035:2017 + A11:2020
	EN IEC 61000-3-2:2019 + A1:2021
	EN 61000-3-3:2013 + A1:2019 + A2:2021
	EN 301 489-1 V2.2.3
	EN 301 489-17 V3.2.4
	EN 301 489-52 V1.2.1
ESD	EN 61000-4-2:2009
Radiated Immunity	EN IEC 61000-4-3:2020
EFT	EN 61000-4-4:2012
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014 + A1:2017
CS	EN 61000-4-6:2014
DIP	EN 61000-4-11:2020
RF	
Standards	EN 300 328 V2.2.2
	EN 301 511 V12.5.1
	EN 301 908-1 V15.1.1
	EN 301 908-2 V13.1.1
	EN 301 908-13 V13.1.1
PERFORMANCE SPECIFICATIONS	
Standards	CE: EN IEC 62368-1:2020 + A11:2020, EN IEC 62311:2020, EN 50665:2017
	CB: IEC 62368-1:2018
	RCM: AS/NZS 62368.1:2022

Product Information Online

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

Product page:

<https://www.comx-computers.co.za/TTK-RUT901-Teltonika-RUT901-Industrial-LTE-Wi-Fi-IoT-Buy-p-294742.php>

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