ComX Computers
Product Specification Sheet

TTK-RUT241

Teltonika Industrial LTE Wi-Fi IoT Router with VPN and I/O

Product Overview

Teltonika RUT241 Industrial LTE Wi-Fi IoT Router with VPN and I/O, MediaTek Chipset



Specifications

Overview:

- RUT241 is the modified version of our all-time bestseller RUT240 that inherited its' best features, including industrial design, compact size, multiple connection interfaces, and compatibility with RMS.
- Equipped with 4G LTE, Wi-Fi, and two Ethernet ports, this router offers unstoppable connection continuity with a backup through automatic failover.
- Digital Inputs and Outputs coupled with advanced RutOS software enable solution automation scenarios.
- RUT241 is an excellent fit in various IoT and M2M solutions that require easy setup, reliable network, and remote accessibility.

Features:

CONNECTIVITY

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

WAN FAILOVER

Automatic switching to available Backup connection

WIFI

Wireless Access Point with Hotspot functionality

COMPACTNESS

Small size - easy integration

I/O

Digital Input/Output for remote monitoring and control

RMS

Compatible with Teltonika Remote Management System

Specifications:

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Specifications	
Product Code	TTK-RUT241
MOBILE	
Mobile module	4G (LTE) - Cat 4 up to 150 Mbps, 3G - Up to 42 Mbps, 2G - Up to 236.8 kbps
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
Black/White list	Operator black/white list
Band management	Band lock, Used band status display
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
Multiple PDN (optional)	Possibility to use different PDNs for multiple network access and services (not available in standard FW)
WIRELESS	
Wireless mode	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
WiFi security	WPA2-Enterprise - PEAP, WPA2-PSK, WEP, WPA-EAP, WPA-PSK, AES-CCMP, TKIP, Auto Cipher modes, client separation
SSID	SSID stealth mode and access control based on MAC address
WiFi users	Up to 50 simultaneous connections
Wireless Hotspot	Captive portal (Hotspot), internal/external Radius server, built in customizable landing page
ETHERNET	
WAN	1 x WAN port (can be configured to LAN) 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
LAN	1 x LAN port, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
NETWORK	
Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, RIPng, OSPF6)
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPnP, SSH, DHCP, Telnet client, 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
DHCP	Static and dynamic IP allocation, DHCP Relay, Relayd

QoS / Smart Queue Management (SQM)	Traffic priority queuing by source/destination, service, protocol or port, 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	VRRP, Mobile, Wired and WiFi WAN options, each of which can be used as backup, using automatic Failover
Load balancing	Balance your internet traffic over multiple WAN connections
SSHFS (optional)	Possibility to mount remote file system via SSH protocol (not available in standard FW)
SECURITY	
Authentication	Pre-shared key, digital certificates, X.509 certificates
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	Set up custom data limits for the SIM card
WEB filter	Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only
Access control	Flexible access control of TCP, UDP, ICMP packets, MAC address filter
VPN	
OpenVPN	Multiple clients and server can be running simultaneously, 12 encryption methods
OpenVPN Encryption	DES-CBC, RC2-CBC, DES-EDE-CBC, DES-EDE3-CBC, DESX-CBC, BF-CBC, RC2-40-CBC, CAST5-CBC, RC2-64-CBC, AES-128-CBC, AES-192-CBC, AES-256-CBC
IPsec	IKEv1, IKEv2, supports up to 4 x VPN IPsec tunnels (instances), with 5 encryption methods (DES, 3DES, AES128, AES192, AES256)
GRE	GRE tunnel
PPTP, L2TP	Client/Server services can run simultaneously
Stunnel	Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the programs' code
SSTP	SSTP client instance support
ZeroTier	ZeroTier VPN
WireGuard	WireGuard VPN client and server support
MODBUS TCP SLAVE	
ID filtering	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
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)
MODBUS DATA TO SERVER	

Protocol	HTTP(S), MQTT, Azure MQTT
MQTT GATEWAY	
MQTT gateway	Allows sending commands and receiving data from MODBUS Master through MQTT broker
MONITORING & MANAGEMENT	
WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
FOTA	Firmware update from sever, automatic notification
SSH	SSH (v1, v2)
SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET
Call	Reboot, Status, WiFi on/off, Mobile data on/off, Output 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
MODBUS	MODBUS TCP status/control
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, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength, WAN Type and IP
Azure IoT Hub	Can send device IP, Number of bytes send/received/ 3G connection state, Network link state, IMEI, ICCID, Model, Manufacturer, Serial, Revision, IMSI, Sim State, PIN state, GSM signal, WCDMA RSCP WCDMA EC/IO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, Operator, Operator number, Connection type, Temperature, PIN count to Azure IoT Hub server
SYSTEM CHARACTERISTICS	
CPU	Mediatek MIPS 24Kc 580 MHz
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, restore point
FOTA	Update FW/configuration from server
RMS	Update FW/configuration for multiple devices
Keep settings	Update FW without losing current configuration
FIRMWARE CUSTOMIZATION	
Operating system	RutOS (OpenWrt based Linux OS)

Supported languages	Busybox shell, Lua, C, C++
Development tools	SDK package with built environment provided
INPUT/OUTPUT	
Input	1 x Digital input, 0 - 5 V detected as logic low, 8 - 30 V detected as logic high
Output	1 x Digital open collector output, max output 30 V, 300 mA
Events	SMS, EMAIL, RMS
POWER	
Connector	4 pin industrial DC power socket
Input voltage range	9 - 30 VDC, reverse polarity protection, surge protection >33 VDC 10us max
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, 802.3at and 802.3bt
Power consumption	< 6.5 W Max
PHYSICAL INTERFACES (PORTS, LEDS, ANTENNAS, BUTTONS, SIM)	
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, 5 x Connection strength LEDs, 2 x LAN status LEDs, 1 x Power LED
SIM	1 x SIM slot (Mini SIM - 2FF), 1.8 V/3 V, external SIM holder
Power	1 x 4 pin DC connector
Antennas	2 x SMA for LTE, 1 x RP-SMA for WiFi antenna connectors
Reset	Reboot/Factory reset button
PHYSICAL SPECIFICATION	
Casing material	Aluminium housing with DIN rail mounting option, plastic panels
Dimensions (W x H x D)	83 x 25 x 74 mm
Weight	125 g
Mounting options	Bottom and sideways DIN rail mounting slots
OPERATING ENVIRONMENT	
Operating temperature	-40 degreesC to 75 degreesC
Operating humidity	10% to 90% non-condensing
Ingress Protection Rating	IP30
REGULATORY & TYPE APPROVALS	
Regulatory	CE/RED, UKCA, CB
EMI IMMUNITY	
Standards	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 Final draft EN 301 489-52 V1.2.0 EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN 61000-3-3:2013+A1:2019 EN IEC 61000-3-2:2019
ESD	EN 61000-4-2:2009

Radiated Immunity	EN 61000-4-3:2020
EFT	EN 61000-4-4:2012
Surge Immunity (AC Mains Power Port)	EN 61000-4-5:2014+A1:2017
Conducted Immunity	EN 61000-4-6:2014
DIP	EN IEC 61000-4-11:2020
RF	
Standards	EN 300 328 V2.2.2, EN 301 511 V12.5.1, EN 301 908-1 V13.1.1, EN 301 908-2 V13.1.1, EN 301 908-13 V13.1.1
SAFETY	
Standards	EN IEC 62311:2020, EN 50665:2017, EN IEC 62368-1:2020+A11:2020, IEC 62368-1:2018

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-RUT241-Teltonika-Industrial-LTE-Wi-Fi-IoT-Router-with-VPN-and-I-O-p-274113.php

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