

Item no.: 386902

RUT956_GLOBAL - RUT956 Global - industrial 4 GLTE router, Cat 4, up to 150 Mbps

from **261,37 EUR**

Item no.: 386902
shipping weight: 0.30 kg
Manufacturer: Teltonika



 Product Description

RUT956 is an industrial router that combines cellular, Wi-Fi and wired connectivity options with automatic WAN failover and GNSS capabilities. Serial communication interfaces enable integration of a wide range of devices into the overall ecosystem, while I/O and advanced RuTOS software facilitate device control, automation and event notification.

Specification MOBILE- Mobile module: 4G (LTE) - Cat 4 up to 150 Mbps, 3G - up to 42 Mbps, 2G - up to 236.8 kbps- SIM switch: 2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection error, SIM idle protection- Status: IMSI, ICCID, operator, operator status, data connection status, 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, 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 of Unstructured Supplementary Service Data messages- Black/white list: Black/white list of operators (by country or individual operators)- Multiple PDN: Possibility to use different PDNs for multiple network accesses and services- Band management: Band lock, display of the status of the band in use- APN: Auto APN- Bridge: Direct connection (bridge) between mobile ISP and device in the LAN- Passthrough: Router assigns its mobile WAN IP address to another device in the LAN/WIRELESS- Wireless mode: IEEE 802.11b/g/n, 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, deactivation of Auto-Reconnect- 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, BSS transition management (802.11v), Radio resource metering (802.11k)- Wireless MAC filter: Whitelist, BlacklistNETWORK- Hotspot: Captive portal (hotspot), internal/external radius server, radius MAC authentication, SMS authorisation, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group restrictions, user management, 9 default customisable themes and the ability 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, SNMP, MQTT, Wake On Lan (WOL)- VoIP passthrough support: H.323- and SIP- alg protocol NAT helpers that enable the correct routing of VoIP packets- Connection monitoring: Ping Reboot, Wget Reboot, Periodic Reboot, LCP and ICMP for link inspection- Firewall: Port forwarding, traffic rules, user-defined rules- DHCP: Static and dynamic IP assignment, 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: Supports >25 service providers, others can be configured manually- Network backup: Wi-Fi WAN, Mobile, VRRP, wired options, any of which can be used as automatic failover- Load balancing: Balancing of Internet traffic across multiple WAN connections- SSHFS: Ability to mount a remote file system via the SSH protocolETHERNET- WAN: 1 x WAN port 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX- LAN: 3 x LAN ports, 10/100 Mbps, compliant with IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIXSECURITY- Authentication: Pre-shared key, digital certificates, X.509-certificates, TACACS+, radius, blocking of IP and login attempts, time-based login blocking, integrated random generator for passwords- Firewall: Preconfigured firewall rules can be activated via WebUI, unlimited firewall configuration via CLI: DMZ, NAT, NAT-T- Attack protection: DDOS protection (SYN flood protection, SSH attack protection, HTTP/HTTPS attack protection), port scan protection (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacks)- VLAN: Port and tag-based VLAN separation- Mobile quota control: mobile data limit, customisable time period, start time, warning limit, phone number- WEB filter: blacklist to block unwanted websites, whitelist to specify only allowed websites- Access control: flexible access control of SSH, web interface, CLI and TelnetVPN- 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-CFB 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 tunnels, GRE tunnels via IPsec support- PPTP, L2TP: Client/server instances can run simultaneously, L2TPv3, L2TP via IPsec support- Stunnel: Proxy for adding TLS encryption functionality to existing clients and servers without changes to the programme code- DMVPN: Method for building scalable IPsec VPNs- SSTP: Support for SSTP client instances- ZeroTier: ZeroTier VPN client support- WireGuard: WireGuard VPN client and server support- Tinc: Tinc provides encryption, authentication and compression in its tunnels. Client and server support.BACNET- Supported modes: Router- Supported connection types: RS485, TCP/OPC UA- Supported modes: Client, Server- Supported connection types: TCP/Modbus- Supported modes: Server, Client- Supported connection types: RTU (RS232, RS485), TCP, USB- User-defined registers: Modbus TCP user-defined register block requests that can be read/written to a file within the router and 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 DATATO SERVER- Protocol: HTTP(S), MQTT, Azure MQTT, KinesisMQTTGATEWAY- Modbus MQTT Gateway: Enables sending commands and receiving data from the Modbus server via MQTT brokerDNP3- Supported modes: Station, Outstation- Supported connection types: RS232, RS485, TCP, USBDLMS- DLMS support: DLMS - standard protocol for exchanging meter dataAPI- Teltonika Networks Web API (beta) support: extend the capabilities of your device by using a set of configurable API endpoints to retrieve or modify data. For more information, please read this documentation: [## Specifications](https://developers.teltonika-networks.com/MONITORING & MANAGEMENT- WEB UI: HTTP/HTTPS, status, configuration, FW update, CLI, troubleshooting, multiple event log servers, availability notifications for firmware updates, event log, system log, kernel log, internet status- FOTA: Firmware update from server, automatic notification- SSH: SSH (v1, v2)- SMS: SMS status, SMS configuration, send/read SMS via HTTP POST/GET- Call: Restart, status, mobile data on/off, outgoing on/off, answer/hang up with 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 via HTTP/HTTPS- RMS: Teltonika Remote Management System (RMS)IOT/PLATFORMS- Cloud of Things: Enables monitoring of: Device data, mobile data, network information, availability- ThingWorx: Enables monitoring of: WAN type, WAN IP, mobile provider name, mobile network signal strength, mobile network type- Cumulocity: Enables monitoring of: Device model, revision and serial number, WAN type and IP, mobile cell ID, ICCID, IMEI, connection type, network provider, signal strength- Azure IoT Hub: Can provide device IP, number of bytes sent/received, temperature, PIN count to Azure IoT Hub server, mobile connection status, network connection status, IMEI, ICCID, model, manufacturer, Serial number, revision, IMSI, SIM status, PIN status, GSM signal, WCDMA RSCP, WCDMA EC/IO, LTE RSRP, LTE SINR, LTE RSRQ, CELL ID, operator, operator number, connection typeSYSTEM CHARACTERISTICS- CPU: Mediatek, 580 MHz, MIPS 24KcE- RAM: 128 MB, DDR2- FLASH memory: 16 MB, SPI FlashFIRMWARE/ 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- Maintain settings: Update FW without losing the current configuration- Reset factory settings: A full factory reset restores all system settings, including IP address, PIN and user data, to the manufacturer's default configurationFIRMWARECUSTOMISATION- Operating system: RuTOS (OpenWrt based Linux OS)- Supported languages: Busybox shell, Lua, C, C++- Development tools: SDK package with build environmentLOCATIONTRACKING- 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 zonesSERIAL- RS232: DB9 connector, RS232 (with RTS and CTS flow control)- RS485: RS485 full duplex (4 wires) and half duplex (2 wires). 300-115200 baud rate- Serial functions: Console, serial over IP, modem, Modbus gateway, NTRIP clientUSB- Data rate: USB 2.0- Applications: Samba sharing, USB-to-serial- External devices: Option to connect an external hard drive, a flash drive, an additional modem, a printer, a USB serial adapter- Storage formats: FAT, FAT32, exFAT, NTFS (read-only), ext2, ext3, ext4INPUT / OUTPUT- Input: 1 x digital, dry input (0 - 3 V), 1 x digital, galvanically isolated input (0 - 30 V), 1 x analogue input (0 - 24 V), 1 x digital, non-isolated input (on 4-pin power connection), 0 - 5 V are detected as logic low, 8 - 30 V are detected as logic high)- Output: 1 x digital open collector output (30 V, 250 mA), 1 x SPST relay output (40 V, 4 A), 1 x digital open collector output (30 V, 300 mA, via 4-pin power connection)- Events: Email, RMS, SMS- I/O juggler: allows specific I/O conditions to be set to trigger eventsPOWER- Connection: 4-pin industrial DC socket- Input voltage range: 9 - 30 VDC, reverse polarity protection; overvoltage protection >31 VDC 10us max- PoE (passive): Passive PoE via free pairs. Power supply option via LAN1 port, not compatible with IEEE802.3af, 802.3at and 802.3bt, mode B, 9 - 30 VDC- Power consumption: < 2 W idle, < 7 W maxPHYSICAL INTERFACES- Ethernet: 4 x RJ45 ports, 10/100 Mbps- I/Os: 2 x inputs and 2 x outputs on 10-pin industrial socket, 1 x digital input and 1 x digital output on 4-pin power connector (available from HW revision 1600)- Status LEDs: 1 x two-colour 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 holder, eSIM (optional)- Power: 1 x 4-pin power connector- Input/Output: 1 x 10-pin industrial socket for inputs/outputs- Antennas: 2 x SMA for LTE, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNSS- USB: 1 x USB-A connector for external devices- RS232: 1 x DB9 socket- RS485: 1 x 6-pin industrial socket- Reset: Reboot/User default reset/Factory reset buttonPHYSICAL DATA- Housing material: aluminium housing, plastic panels- Dimensions (W x H x D): 110 x 50 x 100 mm- Weight: 287 g- Mounting options: DIN rail, wall mounting, flat surface (all require additional kit)OPERATING ENVIRONMENT- Operating temperature: -40 °C to 75 °C- Operating humidity: 10 % to 90 % non-condensing- Protection class: IP30REGULATORY & TYPE APPROVALS- Regulations: CE, UKCA, ANRT, Kenya, CITC, ICASA, FCC, IC, PTCRB, Anatel, RCM, Giteki, IMDA, ECE R118, E-mark, UL/CSA Safety, CB, RoHS, REACH, NCC, C1D2- Network operators: AT&T, Verizon, T-MobileEMC EMISSIONS & IMMUNITY- Standards: EN 55032:2015 + A11:2020EN 55035:2017 + A11:2020EN IEC 61000-3-2:2019 + A1:2021EN 61000-3-3:2013 + A1:2019EN 301 489-1 V2.2.3EN 301 489-17 V3.2.4EN 301 489-19 V2.1.1EN 301 489-52 V1.2.1- ESD: EN 61000-4-2:2009- Radiation immunity: EN 61000-4-3:2020- EFT: EN 61000-4-4:2012- Immunity to overvoltages (AC mains connection): EN 61000-4-5:2014 + A1:2017- CS: EN 61000-4-6:2014- DIP: EN 61000-4-11:2020RF- Standards: EN 300 328 V2.2.2EN 301 511 V12.5.1EN 301 908-1 V15.2.1EN 301 908-2 V13.1.1EN 301 908-13 V13.2.1EN 303 413 V1.1.1SAFETY(ORDINARY LOCATIONS)- Standards: CE: EN IEC 62368-1:2020 + A11:2020, EN IEC 62311:2020, EN 50665:2017RCM: AS/NZS 62368.1:2022CB: IEC 62368-1:2018UL/CSA Safety: UL 62368-1 (3rd ed., rev. 13 December 2019), C22.2 No. 62368-1:19 (3rd ed., Rev. 13 December 2019)SAFETY (HAZARDOUS LOCATIONS)- Standards: UL/CSA Safety: UL 121201, 9th Ed., Rev. 1 April 2021, CAN/CSA C22.2 No. 213, 3rd Ed. April 2021- Hazardous Environments: Class I, Division 2, Groups A, B, C, DClass I, Zone 2, Group IIC-40°C ? Ta ? 75°C, T4, IP30</p>
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