Item no.: 386900

RUT241_GL - LTE Router

from **182,79 EUR**

Item no.: 386900
shipping weight: 0.20 kg
Manufacturer: Teltonika

Product Description

Ausgerüstet mit 4G LTE, Wi-Fi und zwei Ethernet-Anschlüssen, bietet dieser Router eine ununterbrochene Verbindung mit einem Backup durch automatisches Failover. Industrielles Design, kompakte Größe, mehrere Anschlussschnittstellen und Kompatibilität mit RMS machen dieses Gerät zu einer hervorragenden Wahl für zahlreiche IoT- und M2M-Lösungen.SpezifikationMOBILE- Mobile module: 4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps- 3GPP Release: Release 10/11 depending on the hardware version- 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, 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 (by country or separate operators)- Multiple PDN: Possibility to use different PDNs for multiple network access and services- 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 WIRELESS- Wireless mode: IEEE 802.11b/g/n, Access Point (AP), Station (STA)- Wi-Fi security: WPA2-Enterprise - PEAP, WPA2-PSK, WEP, WPA-EAP, WPA-PSK; 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 50 simultaneous connections- Wireless Connectivity Features: Fast roaming (802.11r), Relayd, BSS transition management (802.11v), radio resource measurement (802.11k)- 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, Radius MAC authentication, SMS authorisation, 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- 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, Radius MAC authentication, SMS authorisation, 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- 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 >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 protocolETHERNET- WAN: 1 x WAN port 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u, 802.3az 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/MDIXDLMS- DLMS Support: DLMS - standard protocol for utility meter data exchangeSECURITY- Authentication: Pre-shared key, digital certificates, X.509 certificates, TACACS+, Radius, IP & login attempts block, time-based login blocking, built-in random password generator- 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.OPC UA- Supported modes: Client, Server- Supported connection types: TCP 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, ASCIIDATA 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 serverMQTT GATEWAY- MODBUS MQTT Gateway: Allows sending commands and receiving data from MODBUS Server through MQTT brokerDNP3- Supported modes: TCP Master, DNP3 OutstationAPI- Teltonika Networks Web API (beta) support: Expand your device's possibilities by using a set of configurable API endpoints to retrieve or change data. For more information, please refer to this documentation: https://developers.teltonika-networks.comMONITORING & 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, 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, Mobile 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 SYSTEM CHARACTERISTICS- CPU: Mediatek, 580 MHz, MIPS 24KEc- RAM: 128 MB, DDR2- FLASH storage: 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- 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. 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 eventPOWER- 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 MaxPHYSICAL 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, 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 power connector- Antennas: 2 x SMA for LTE, 1 x RP-SMA for Wi-Fi antenna connectors- Reset: Reboot/User default reset/Factory reset buttonPHYSICAL SPECIFICATION- Casing material: Aluminium housing, plastic panels- Dimensions (W x H x D): 83 x 25 x 74 mm- Weight: 125 g- Mounting options: DIN rail, wall mount, flat surface (all require additional kit)OPERATING ENVIRONMENT- Operating temperature: -40 °C to 75 °C- Operating humidity: 10% to 90% non-condensing- Ingress Protection Rating: IP30REGULATORY & TYPE APPROVALS- Regulatory: CE, UKCA, ANRT, Kenya, ICASA, FCC, IC, PTCRB, NOM, RCM, KC, Giteki, IMDA, E-mark, CB, UL/CSA Safety, RoHS, REACH, R118- Operator: AT&T, Verizon, T-Mobile, UscellularEMC EMISSIONS & IMMUNITY- Standards: EN 55032:2015 + A11:2020EN 55035:2017 + A11:2020EN IEC 61000-3-2:2019EN 61000-3-3:2013 + A1:2019EN 301 489-1 V2.2.3EN 301 489-17 V3.2.4Final Draft EN 301 489-52 V1.2.0- 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 61000-4-11:2020RF- 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 V13.2.1SAFETY- 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, Ed. 3 dated December 13, 20, CAN/CSA C22.2 No. 62368-1:19

Specifications