

# Maršrutizatorius Teltonika RUT950



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LTE maršrutizatorius Teltonika RUT950, skirtas profesionaliam naudojimui.

### RYŠYS

- Mobilus modulis: 4G (LTE) - Cat 4 up to 150 Mbps, 3G - Up to 42 Mbps, 2G - Up to 236.8 kbps.
- SIM perjungimas: 2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail, SIM idle protection
- Statusas: Signal strength, SINR, RSRPO, RSRQ, Bytes sent/received
- Sujungimas: Direct connection (bridge) between mobile ISP and device on LAN
- 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
- Juodas/baltas sąrašas: Operator black/white list
- Sudėtinis PDN (pasirenkama): Possibility to use different PDNs for multiple network access and services

### BELaidis ryšys

- Belaidžio ryšio režimas: IEEE 802.11b/g/n, Access Point (AP), Station (STA)
- WiFi: WPA2-Enterprise (with external/internal Radius server), WPA2-PSK, WPA-PSK, WEP, MAC Filter
- WiFi apsauga: WPA2-Enterprise - PEAP, TLS, TTLS. AES-CCMP, TKIP, Auto Cipher modes. Client separation
- SSID: SSID stealth mode and access control based on MAC address
- WiFi naudotojai: Up to 100 simultaneous connections
- Mobilusis saitvietė: Captive portal (Hotspot), internal/external Radius server, built in customizable landing page

## ETHERNET

- WAN: 1 x WAN (can be configured to LAN) 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
- LAN: 3 x LAN ports, 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX

## TINKLAS

- Maršrutizavimas: Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2)
- Tinklo protokolai: TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, MQTT
- Sujungimo stebėjimas: Ping Reboot, Periodic Reboot, LCP and ICMP for link inspection
- Ugniasienė: Port forward, traffic rules, custom rules
- DHCP: Static and dynamic IP allocation
- QoS: Traffic priority queuing by source/destination, service, protocol or port
- DDNS: Supported >25 service providers, others can be configured manually
- Tinklo atsarginė kopija: VRRP, Mobile, Wired and WiFi WAN options, each of which can be used as backup
- Krovos balansavimas: Balance your internet traffic over multiple WAN connections
- NetSnapper (pasirenkama): Mobile connection management, data compression VPN client (not available in standard FW)
- SSHFS (pasirenkama): Possibility to mount remote file system via SSH protocol (not available in standard FW)

## APSAUGA

- Autentifikacija: Pre-shared key, digital certificates, X.509 certificates
- Ugniasienė: Pre-configured firewall rules can be enabled via web-ui, unlimited firewall configuration via CLI; DMZ; NAT; NAT-T
- Atakos apsauga: 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)
- WiFi apsauga: WPA2-Enterprise - PEAP, EAP-TLS, TLS, TTLS. AES-CCMP, TKIP, Auto Cipher modes. Client separation
- VLAN: Port based and tag based VLAN separation
- Mobilųjų duomenų kontrolė: Set up custom data limits for both SIM cards
- WEB filtras: Blacklist for blocking out unwanted websites, whitelist for specifying allowed sites only
- Įeigos kontrolė: Flexible access control of TCP, UDP, ICMP packets, MAC address filter

## VPN

- AtvirasVPN: Multiple clients and server can be running simultaneously, 12 encryption methods
- AtviroVPN šifravimas: 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 4x VPN IPsec tunnels (instances), with 5 encryption methods (DES, 3DES, AES128, AES192, AES256)
- GRE: GRE tunnel
- PPTP, L2TP: Client/Server services can run simultaneously

## STEBĖJIMAS IR VALDYMAS

- 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
- TR-069: OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly

tech, AVsystems

- 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)

## **SISTEMOS CHARAKTERISTIKA**

- CPU: Atheros Wasp, MIPS 74Kc, 550MHz
- RAM: 128MB, DDR2
- FLASH atmintis: 16MB SPI Flash

## **PROGRAMINĖ ĮRANGA/KONFIGURACIJA**

- 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
- Nustatymų saugojimas: Update FW without losing current configuration

## **PROGRAMINĖS ĮRANGOS NUSTATYMAS**

- Operacinė sistema: RutOS powered by Linux based on OpenWRT
- Kalbos: Busybox shell, Lua, C, C++
- Pletros įrankiai: GPL package with build environment provided

## **MAITINIMAS**

- Pajungimas: 4 pin industrial DC power socket
- Maitinimas: 9 - 30 VDC (4 pin industrial socket), reverse polarity protection; surge protection >31VDC 10us max.
- PoE (pasyvus): Passive PoE over spare pairs. Possibility to power up through LAN port, not compatible with IEEE802.3af and 802.3at standards
- Energijos suvartojimas: < 2W idle, < 7W Max.

## **JUNGTYS**

- Ethernet: 4 x RJ45 ports, 10/100 Mbps
- Statuso LEDs: 1 x bi-color connection status LED, 5x connection strength LEDs, 4x LAN status LEDs, 1x Power LED
- SIM: 2 x SIM slots (Mini SIM - 2FF, 2st form factor), 1.8V/3V
- Maitinimas: 4 pin industrial DC power socket
- Antenos: 2 x SMA for LTE, 2 x RP-SMA for WiFi antenna connectors
- Reset: Reset/restore to default button

## **FIZINĖ SPECIFIKACIJA**

- Korpuso medžiaga: Aluminium housing, plastic panels
- Matmenys: 80 mm x 106 mm x 46 mm (H x W x D)
- Svoris: 235 g
- Montavimas: DIN rail (can be mounted on two sides), flat surface placement

## **VEIKIMO SĄLYGOS**

- Veikimo temperatūra: -40 °C to 75 °C

- Santykinis oro drėgnumas: 10% to 90% non-condensing
- IP apsaugos klasė: IP30
- MTBF: 270000 h

## **SERTIFIKATAI**

- Reguliavimas: CE/RED, FCC, R&TTE, EAC, PTCRB, RoHS, WEEE
- Operatorius: AT&T, Verizon (planned)

## **EMI ATSPARUMAS**

- ESD: EN 301 489 V2.1.1 (EN61000-4-2:2009)
- RF: EN 301 489 V2.1.1 ( EN 61000-4-3:2006, A1:2008 and A2:2010)
- EFT: EN 301 489 V2.1.1 (EN 61000-4-4:2013)
- Virštampio apsauga: EN 301 489 V2.1.1 (EN 61000-4-5:2014)
- RC: EN 301 489 V2.1.1 (EN 61000-4-6:2014)

## **APLINKOS TESTAVIMAS**

- Anti-šoko /kritimo/vibracijos: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 +A12:2011
- Smūgio stiprumas: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 + A1:2010 + A2:2013 + A11:2009 +A12:2011

## **APIE MUS**

Tiekiamo specializuotus matavimo prietaisus, saugos įrangą, šildymo, vėdinimo, oro kondicionavimo sistemas. Atliekame prietaisų ir įrenginių remontą, montavimą, techninį aptarnavimą, teikiame konsultacijas.

Dirbame su Hikvision, Multipipe, Kan, Van de Lande, Danfoss, ACO, Perfexim, Isover, Paroc, Thermaflex, Skolan, Komfovent, Dahua, DSC, Paradox, Roger, Kidde, Lifeloc Technologies, Kimo Instruments, AZ instruments, CEM instruments, Benetech instruments, Wuko, Freund, Fisher Labs, CAS corporation, Andilog Technologies, Quiko, Drager, Autogard, Englo, Hanna instruments, Exotek Instruments, Testo, Gastop, Lascar, T.R Turoni srl, Jabra, Samsung ir daugelio kitų pasaulinių gamintojų įrangą.

Mūsų darbuotojai nuolat atnaujina savo žinias ir kvalifikaciją naujausiomis Šiaurės Amerikos ir Europos gamintojų metodinėmis medžiagomis ir mokymo programomis.

**UAB SP INDUSTRIES** - Saugos įrangos ir matavimo prietaisų mažmeninė bei didmeninė prekyba. Montavimas ir aptarnavimas, specializuoti darbai.

**Esame pasirengę jums padėti.**

## UAB "SP INDUSTRIES"

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