Maršrutizatorius Teltonika RUT240



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Industrinis LTE maršrutizatorius profesionaliam naudojimui. Palaikomi LTE Cat 4 iki 150 Mbps. Automatinis perjungimas prie galimo atsarginio ryšio. Belaidis prieigos taškas ir saitvietės funkcija. Skaitmeninė įvestis/išvestis nuotoliniam stebėjimui ir kontroliavimui.

RYŠYS

- Mobilus modulis: 4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps.
- Statusas: Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP 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
- Baltas/juodas sąrašas (pasirenkama): 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 vartotojai: up to 50 simultaneous connections
- Viešosios interneto prieigos taškas: 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: 1 x LAN port, 10/100 Mbps, comply IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX

TINKLAS

- Maršrutizavimas: Static routing, Dynamic routing (Optional - 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 (optional)
- 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
- Apkrovos 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 prevencija: 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: Tag based VLAN separation
- Mobilių duomenų kontrolė: Set up custom data limits for the SIM card
- WEB filtravimas: 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 (pasirenkama): OpenACS, EasyCwmp, ACSLite, tGem, LibreACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVsystems
- MQTT (pasirenkama): 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 CHARAKTERISTIKOS

- CPU: Atheros Hornet, MIPS 24Kc, 400 MHz
- RAM: 64MB, 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 išsaugojimas: Update FW without losing current configuration

PROGRAMINĖS ĮRANGOS NUSTATYMAS

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

ĮVESTYS/IŠVESTYS

- Įvestis: 1 x Digital Input
- Išvestis: 1 x Digital Output
- Įvykiai: SMS, EMAIL, RMS

MAITINIMAS

- Pajungimas: 4 pin industrial DC power socket
- Maitinimo įtampa: 9 – 30 VDC (4 pin industrial socket), reverse polarity protection, surge protection >33VDC 10us max.
- PoE (pasyvus): 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 and 802.3at
- Energijos suvartojimas: < 5 W

JUNGTYS

- Ethernet: 2 x RJ45 ports, 10/100 Mbps
- Statuso LED: 3 x connection type status LEDs, 5 x connection strength LEDs, 2 x LAN status LEDs, 1x Power LED
- SIM: 1 x SIM slot (Mini SIM – 2FF, 2st form factor), 1.8V/3V, external SIM holder
- Maitinimo: 4 pin DC connector with 1 x Digital input and 1 x Digital output
- Antenų: 2 x SMA for LTE, 1 x RP-SMA for WiFi antenna connectors
- Reset: Reset/restore to default button

FIZINĖ SPECIFIKACIJA

- Medžiaga: Aluminum housing, plastic panels

- Matmenys: 83 mm x 74 mm x 25 mm (H x W x D)
- Svoris: 125 g
- Montavimas: bottom and sideways DIN rail mounting slots

VEIKIMO SĄLYGOS

- Veikimo temperatūra: -40 °C to 75 °C
- Santykinis oro drėgnumas: 10% to 90% non-condensing
- IP apsaugos klasė: IP30
- MTBF: 310000 h

SERTIFIKATAI

- Reguliavimas: CE/RED, FCC (in progress), ISED (in progress), EAC, PTCRB (in progress), RoHS, WEEE
- Operatorius: AT&T, Verizon (planned)
- Transporto priemonė: E-mark (planned)

EMI ATSPARUMAS

- Standartai: Draft EN 301 489-1 V2.2.0, Draft EN 301 489-17 V3.2.0, Draft EN301 489-52 V1.1.0
- ESD: EN61000-4-2:2009
- RF: EN 61000-4-3:2006, A1:2008 and A2:2010
- EFT: EN 61000-4-4:2012
- Viršįtampio apsauga: EEN 61000-4-5:2006
- RC: EN 61000-4-6:2009
- DIP: EN 61000-4-11:2004

RF

- Radio spektras EN 300 328 V2.1.1

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

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

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

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Esame pasirengę jums padėti.

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