

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
- Mobilųjų 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
- Įėjimo 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.

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 įranga.

Mūsų darbuotojai nuolatos 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.

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