

Item no.: 390707 **RUTM50 - zellulärer 5G Router** 





Product Description

RUTM50 is an FCC-certified Teltonika Networks cellular 5G router for North America, with ultra-high cellular speeds of up to 3.4 Gbps. This dual SIM router has auto-failover and backup WAN and supports both SA and NSA 5G architectures. It is also backward compatible with 4G (LTE Cat 19/18), making it perfect for future-proofing your industrial networking solutions.MOBILE- Mobile module: 5G Sub-6 GHz SA, NSA 2.4, 3.4Gbps DL (4x4 MIMO) 900, 550Mbps UL (2x2 MIMO); 4G (LTE): DL Cat 19 1.6Gbps (4x4 MIMO), UL Cat 18 200Mbps- SIM switch: 2 SIM cards, auto-switch cases: weak signal, data limit, SMS limit, roaming, no network, network denied, data connection fail, SIM idle protection-Status: IMSI, ICCID, operator, operator state, data connection state, network type, CA indicator, 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-Developmentary Developmentary Developmentary Services-Band management: Band lock, Used band status display- SIM idle protection service: When working with devices with two SIM slots, the one not currently in use will remain idle until the device switches to it, meaning that no data is used on the card until then- 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- Framed routing: Framed routing: support an IP network behind 5G UEWIRELESS- Wireless mode: 802.11b/g/n/ac Wave 2 (Wi-Fi 5) with data transmission rates up to 867 Mbps (Dual Band, MU-MIMO)- Wi-Fi security: WPA2-Enterprise - PEAP, WPA2-PSK, WPA2-EAP, WPA3-SAE, WPA3-SAE, WPA3-EAP, OWE; AES-CCMP, TKIP, Auto-cipher modes, client separation, EAP-TLS with PKCS#12 certificates, disable auto-reconnect- SSID/ESSID: WPA3-SAE, WPA3-S 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 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 protocol- VRF support: Initial virtual routing and forwarding (VRF) supportSECURITY- 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 - Open/VPN. Multiple clients and a server can run simultaneously, 27 encryption methods- Open/VPN Encryption: DES-CBC 128, AES-128-CFB 128, AES-128-CFB 128, AES-128-CFB 128, AES-128-CFB 129, AES-128-CFB 192, AES-192-CFB 192, AES-192simultaneously, 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 WPN client and servers support- Tinc: Tinc offers encryption, authentication and compression in it's tunnels. Client and server support- Tailscale: Tailscale offers speed, stability, and simplicity over traditional VPNs. Encrypted point-to-point connections using the open source WireGuard protocolOPC UA- Supported modes: Client, Server- Supported connection types: TCPMODBUS- Supported modes: Server, Client- Supported connection types: TCP, USB- 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- Data to server: Extract parameters from writing acurace and different extracted and the ment the acurace and different extracted action and the form UINT (ABCD (big-endian), DCBA (little-endian), CDAB, BADC), HEX, ASCIIDATÁ TO SERVER- Protocol: HTTP(S), MQTT, Azure MQTT- 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: Station, Outstation- Supported connection: TCP, USBDLMS- DLMS Support: DLMS - standard protocol for utility meter data exchangeMONITORING & 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-OB9: OpenACS, EasyCwmp, ACSLite, tGem, LiberACS, GenieACS, FreeACS, LibCWMP, Friendly tech, AVSystem (MCT) MQTT FROKEr, 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, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength, WAN Type and IP- Azure IoT Hub: Can send advice IP, Number of bytes send/received, Temperature, PIN count to Azure IoT Hub server, Mobile connection state, Network link state, IMEI, IICCID, 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, Temperature, PIN count to Azure IoT Hub server?SYSTEM CH 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 configurationFIRMWARE CUSTOMISATION- Operating system: RutOS (OpenWrt based Linux OS)- Supported languages: Busybox shell, Lua, C, C++, and Python, Java in Package manager- 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' needsLOCATION TRACKING- 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 zonesUSB- Data rate: USB 2.0- Applications: Samba share, USB-to-serial- External devices: Possibility to connect external HDD, flash drive, additional modem, Miller Voltage Antrale. Ninkle. Ninkle 2004 point of the Winkle Miller Miller Miller Molecologies Status Safet Subvale 1AVL, KMS- Geolencing, Colinghability of KTCM via multiple geofence zonesUSB- Data rate: USB 2.0- Applications: Samba share, USB-to-serial devices: Possibility to connect external HDD, flash drive, additional modem, printer, USB-serial adapter- Storage formats: FAT, FAT32, exFAT, NTFS (read-only), ext2, ext3, ext4INPUT / OUTPUT- Input: 1 x Digital Input, 0 - 6 V detected as logic low, 8 - 50 V detected as logic high- Output: 1 x Digital Output, 0 pen collector output, max output 50 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 - 50 VDC, reverse polarity protection, surge protection -51 VDC 100 smax- PoE (passive): Possibility to power up through LAN1 port, not compatible with IEE8802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 50 VDC- Power consumption: Idle: <5 W, Max: <18 WPHYSICAL INTERFACES- Ethernet: - 5 x RJ45 ports, 10/100/100 Mbps- I/Os: 1 x Digital Input, 1 x Digital Output on 4-pin power connector- Status LEDs, 3 x connection strength LEDs, 10 x Ethernet port status LEDs, 4 x WAN status LEDs, 1 x Power LED, 2 x 2.4G and 5G Wi-Fi LEDs- SIM: 2 x SIM solts (Mini SIM – 2FF), 1.8 V/3 V- Power: 1 x 4-pin power connector- Antennas: 4 x SMA for Mobile, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNNS- USB: 1 x USB A port for external devices- Reset: Reboot/User default reset/Factory reset button- Other: 1 x a Grounding screwPHYSICAL SPECIFICATION- Casing material: Aluminium housing- Dimensions (W x H x D): 132 x 44.2 x 95.1 mm- Weight: 519 g- Mounting options: DIN rail, wall mount, flat surface (all require additional ki/DPERATING ENVIRONMENT - Operating temperature: -40 °C to 75 °C-Operating Humidity: 10% to 90% non-condensing- Ingress Protection Rating: IP30REGULATORY & TYPE APPROVALS- Regulatory: FCC, IC, PTCRB, UL/CSA Safety, NOM-Operator: T-Mobile, AT&T (FirstNet) Rev. 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Specifications

Scan this QR code to view the product All details, up-to-date prices and availability

