

Item no.: 395769

## RUTC50 - - YOUR CORDLESS 5G MULTITOOL

from **705,87 EUR**

Item no.: 395769  
shipping weight: 0.50 kg  
Manufacturer: Teltonika



 Product Description

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Mobile- Mobile module: 5G Sub-6GHz SA/NSA 2.4/3.4Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) - LTE Cat 20 2.0Gbps DL, 210Mbps UL; 3G - 42 Mbps DL, 5.76Mbps UL - 3GPP Release: Release 16- 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: Signal strength (RSSI), SINR, RSRP, RSRQ, EC/IO, RSCP, Bytes sent/received, connected band, IMSI, ICCID, SIM provider, operator, network type, cell ID, LAC, TAC, ARFCN, UARFCN, EARFCN- 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- 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- SIM PIN code management: SIM PIN code management enables setting, changing, or disabling the SIM card's PIN- 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/ax (Wi-Fi 6) with data transmission rates up to 2402Mbps on 5GHz, 576Mbps on 2.4GHz (Dual Band, MU-MIMO)- Wi-Fi security: WPA2-Enterprise: PEAP, WPA2-PSK, WPA-EAP, WPA-PSK, WPA3-SAE, WPA3-EAP, OWE; AES-CCMP, TKIP, Auto-cipher modes, client separation, EAP-TLS with PKCS#12 certificates, disable auto-reconnect, 802.11w Protected Management Frames (PMF)- SSID/ESSID: ESSID stealth mode- WiFi users: Up to 512 simultaneous connections- Wireless Connectivity Features: Wireless mesh (802.11s), fast roaming (802.11r), 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. Ethernet- WAN: 1 x WAN port 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover- LAN: 4 x LAN ports, 10/100/1000 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossoverNetwork- 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), VXLAN- 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, TTL target customisation- 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- 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- DNS over HTTPS: DNS over HTTPS proxy enables secure DNS resolution by routing DNS queries over HTTPS- 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- Hotspot: Captive portal (hotspot), internal/external Radius server, Radius MAC authentication, SMS authorisation, SSO authentication, 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- SSHFS: Possibility to mount remote file system via SSH protocol- Traffic Management: Real-time monitoring, wireless signal charts, traffic usage historySecurity- 802.1x: Port-based network access control client- Authentication: Pre-shared key, digital certificates, X.509 certificates, TACACS+, Internal & External RADIUS users authentication, 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, customisable 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- SSL certificate generation: Let's encrypt supportVPN- 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-OFB1 192, AES-192-GCM 192, AES-256-CBC 256, AES-256-CFB 256, AES-256-CFB1 256, AES-256-CFB8 256, AES-256-OFB 256, AES-256-CBC 256- IPsec: XFRM, 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, Phase 2 and Phase 3 and Dual Hub support- 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: Tailscal- Tailscal 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, ASCII DATATO 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 server; Custom LUA scripting, allowing scripts to utilise the router's Data to server featureMQTTGateway- Modbus MQTT Gateway: Allows sending commands and receiving data from MODBUS Server through MQTT brokerDNP3- Supported modes: Station, Outstation- Supported connection: TCPDLMS- DLMS Support: DLMS - standard protocol for utility meter data exchange- Supported modes: Client- Supported connection types: TCP, USBAPI- 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: [## Specifications](https://developers.teltonika-networks.com/Monitoring & 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- Email: Receive email message status alerts of various services- 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, Brute force protection- JSON-RPC: Management API over HTTP/HTTPS- RMS: Teltonika Remote Management System (RMS)IoTPlatforms- ThingWorx: Allows monitoring of: WAN Type, WAN IP, Mobile Operator Name, Mobile Signal Strength, Mobile Network Type- Cumulocity - Cloud of Things: Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP, Mobile Cell ID, ICCID, IMEI, Connection Type, Operator, Signal Strength. Has reboot and firmware upgrade actions- Azure IoT Hub: Can be configured with Data to Server to send all the available parameters to the cloud. Has Direct method support which allows to execute RutOS API calls on the IoT Hub. Also has Plug and Play integration with Device Provisioning Service that allows zero-touch device provisioning to IoT HubsDOCKER- Docker Support: Supports running isolated applications and services using Docker containers, enabling custom software environments and microservices deployment directly on the deviceSystem Characteristics- CPU: Mediatek, Dual-core, 1.3 GHz, ARM Cortex A53- RAM: 512MB DDR3- FLASH storage: 16MB serial NOR flash, 512MB serial NAND flashFirmware / Configuration: WEB UI- 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 configurationLocation 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, printer, USB-serial adapter- Storage formats: FAT, FAT32, exFAT, NTFS (read-only), ext2, ext3, ext4Input / Output- Input: 1 x Configurable digital Input, 0 - 6 V detected as logic low, 8 - 50 V detected as logic high- Output: 1 x Configurable digital Output, Open 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, voltage surge/transient protection- PoE (passive): Possibility to power up through LAN1 port, not compatible with IEEE802.3af, 802.3at and 802.3bt standards, Mode B, 9 - 30 VDC (Available from: HW revision 0003, Batch number 007)- Power consumption: Idle: < 4.5 W, Max: < 13.5 WPhysical Interfaces- Ethernet: 5 x RJ45 ports, 10/100/1000 Mbps- I/Os: 1 x Digital Input, 1 x Digital Output on 4-pin power connector- Status LEDs: 4 x WAN status LEDs, 3 x Mobile connection type, 3 x Mobile connection strength, 8 x LAN status, 1 x Power, 2 x 2.4G and 5G Wi-Fi, 2 x WAN status- SIM: 2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders, eSIM (Optional - different hardware required; contact your sales manager)- Power: 1 x 4-pin power connector- Antennas: 4 x SMA for Mobile, 3 x RP-SMA for Wi-Fi, 1 x SMA for GNSS- USB: 1 x USB A port for external devices- Reset: Reboot/User default reset/Factory reset button- Other: 1 x Grounding screwPhysical Specification- Casing material: Anodised aluminium housing and panels- Dimensions (W x H x D): 130.4 x 42.6 x 103.4 mm- Weight: 452 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: IP30</p>
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