**Item no.:** 401692

# RUT360 - LTE CAT6 INDUSTRIAL MOBILE ROUTER

## from **212,71 EUR**

**Item no.:** 401692
**shipping weight:** 0.40 kg
**Manufacturer:** Teltonika

📄 Product Description

LTE CAT6 INDUSTRIAL CELLULAR ROUTERRUT360 is an updated version of our all-time bestseller RUT240. This compact industrial cellular router offers the ability to connectto the Internet via cellular, Wi-Fi and wired networks.RUT360 is equipped with two Ethernet interfaces, 802.11 b/g/n WiFi and a 4G LTE Cat 6 cellular module and offers data speeds of up to 300 Mbps.Unique programming, remote monitoring and security features make RUT360 perfect for IoT and M2M applications where secureand reliable connectivity is a must. Carrier aggregation functionality makes this compact device irreplaceable in areas or applications where cellular data speed is limited.MOBILE- Mobile module: 4G LTE Cat 6 up to 300 DL/ 50 UL Mbps; 3G up to 42 DL/ 5.76 UL Mbps- 3GPP Release: Release 11- Status: IMSI, ICCID, operator, operator status, data link status, 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 of Unstructured Supplementary Service Data messages- Black/white list: Black/white list of operators (by country or individual operators)- Multiple PDN: Possibility to use different PDNs for multiple network accesses and services- Band management: Band lock, display of the status of the band in use- APN: Auto APN- Bridge: Direct connection (bridge) between mobile ISP and device in the LAN- Passthrough: The router assigns its mobile WAN IP address to another device in the LANWIRELESS- Wireless mode: 802.11b/g/n (Wi-Fi 4), 2x2 MIMO, Access Point (AP), Station (STA)- 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, deactivation of Auto-Reconnect, 802.11w Protected Management Frames (PMF)- SSID/ESSID: ESSID stealth mode- Wireless connection functions:Wireless Mesh (802.11s), Fast Roaming (802.11r), Relayd, BSS transition management (802.11v), radio resource measurement (802.11k)- Wireless MAC filter: Allowlist, BlocklistETHERNET- WAN:1 x WAN port 10/100 Mbps, compliant with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports Auto MDI/MDIX- LAN:1 x LAN ports, 10/100 Mbps, compliant 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 that enable the correct routing of VoIP packets- Connection monitoring: Ping reboot, Wget reboot, periodic reboot, LCP and ICMP for link inspection- Firewall: Port forwarding, traffic rules, user-defined rules, TTL destination customisation- Firewall status page: Display all firewall statistics, rules and rule counters- Ports management: display device ports, enable and disable individual ports, switch autoconfiguration on and off, change transmission speed, etc.- 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, SSO authentication, internal/external landing page, walled garden, user scripts, URL parameters, user groups, individual user or group restrictions, user management, 9 default customisable themes and the ability to upload and download customised hotspot themes- DHCP: Static and dynamic IP assignment, 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: Supports >25 service providers, more can be configured manually- Network backup: Wi-Fi WAN, Mobile, VRRP, wired options, any of which can be used as automatic failover- Load balancing: Balancing Internet traffic across multiple WAN connections- SSHFS: Ability to mount a remote file system via the SSH protocolSECURITY- Authentication:Pre-shared key, digital certificates, X.509 certificates, TACACS+, internal and external RADIUS user authentication, blocking of IP and login attempts, time-based login lockout, in-built random password generator- Firewall:Pre-configured firewall rules can be activated via WebUI, unlimited firewall configuration via CLI, DMZ, NAT, NAT-T, NAT64- Attack protection: DDOS protection (SYN flood protection, SSH attack protection, HTTP/HTTPS attack protection), port scan protection (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 time period, start time, warning limit, phone number- WEB filter: blacklist to block unwanted websites, whitelist to specify only allowed websites- Access control: flexible access control of SSH, web interface, CLI and TelnetVPN- 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-CBC 192, AES-192-GCM 192, AES-256-GCM 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 tunnels, GRE tunnels via IPsec support- PPTP, L2TP: Client/server instances can run simultaneously, L2TPv3, L2TP via IPsec support- Stunnel: Proxy for adding TLS encryption functions to existing clients and servers without changes to the programme code- DMVPN: Method for building scalable IPsec VPNs, support for phase 2 and phase 3 as well as dual hub- SSTP: Support for SSTP client instances- ZeroTier: ZeroTier VPN client support- WireGuard: WireGuard VPN client and server support- Tinc: Tinc provides encryption, authentication and compression in its tunnels. Client and server support.OPC UA- Supported modes: Client, Server- Supported connection types: TCPMODBUS- Supported modes: Server, Client- Supported connection types: TCP- User-defined registers: MODBUS TCP user-defined register block requests that can be read/written to a file within the router and 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, ASCIIDATATO SERVER- Protocol: HTTP(S), MQTT, Azure MQTT, Kinesis- Data to server: Extract parameters from multiple sources and different protocols and send all parameters to a single server; Custom LUA scripting that allows scripts to use the router's data-to-server functionMQTTGATEWAY- Modbus MQTT Gateway: Enables sending commands and receiving data from the MODBUS server via the MQTT brokerDNP3- Supported modes: TCP Master, DNP3 OutstationDLMS- DLMS support: DLMS - standard protocol for exchanging meter dataAPI- Teltonika Networks Web API (beta) support: Extend the capabilities of your device by using a range of configurable API endpoints to retrieve or modify data. For more information, see this documentation: https://developers.teltonika-networks.comMONITORING & MANAGEMENT- WEB UI:HTTP/HTTPS, status, configuration, FW update, CLI, troubleshooting, 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: Restart, status, mobile data on/off, outgoing on/off, answer/hang up with timer, Wi-Fi on/off- 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 via HTTP/HTTPS- RMS: Teltonika Remote Management System (RMS)IOTPLATFORMS- Cloud of Things: Enables monitoring of: Device data, mobile data, network information, availability- ThingWorx: Enables monitoring of: WAN type, WAN IP, mobile provider name, mobile signal strength, mobile network type- Cumulocity - Cloud of Things:Enables monitoring of: Device model, revision and serial number, WAN type and IP, mobile cell ID, ICCID, IMEI, connection type, network provider, signal strength. Features reboot and firmware upgrade actions- Azure IoT Hub: Can be configured with Data to Server to send all available parameters to the cloud. Supports direct methods that allow RutOS API calls to be executed on the IoT Hub. Also features plug-and-play integration with the Device Provisioning Service, which enables zero-touch device provisioning for IoT Hubs- AWS IoT Core: Utility to interact with the AWS cloud platform. Jobs support: Call the device API via the AWS Jobs functionalitySYSTEM CAPABILITIES- CPU: Qualcomm MIPS 24kc, 650 MHz- RAM: 128 MB, DDR2- FLASH memory: 16 MB, SPI FlashFIRMWARE/ CONFIGURATION- 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- Maintain settings: Update FW without losing current configuration- Factory reset:A full factory reset resets all system settings, including IP address, PIN and user data, to the manufacturer's default configurationFIRMWARECUSTOMISATION- Operating system: RutOS (OpenWrt based Linux OS)- Supported languages: Busybox shell, Lua, C, C++- Development tools: SDK package with build environment provided- GPL customisation: You can create your own custom firmware and website application by changing colours, logos and other elements in our firmware to suit your needs or those of your customersINPUT/ OUTPUT- Input: 1 x digital input, 0 - 6 V are recognised as logic low, 8 - 30 V are recognised as logic high- Output: 1 x digital output, open collector output, max. Output 30 V, 300 mA- Events: Email, RMS, SMS- I/O juggler: Allows the setting of specific I/O conditions to trigger eventsPOWER- Connection: 4-pin industrial DC socket- Input voltage range: 9 - 30 VDC, reverse polarity protection; overvoltage protection >31 VDC 10us max- Power consumption: 10.5 W maxPHYSICAL INTERFACES- Ethernet: 2 x RJ45 ports, 10/100 Mbps- I/Os: 1 x digital input, 1 x digital output on 4-pin power connector- Status LEDs: 2 x mobile connection type, 3 x mobile connection strength, 2 x Eth status, 1 x power- SIM: 1 x SIM slot (Mini SIM - 2FF), 1.8 V/3 V, external SIM holder- Power: 1 x 4-pin power connector- Antennas: 2 x SMA for LTE, 2 x RP-SMA for Wi-Fi- Reset: restart/user default reset/factory reset buttonPHYSICAL DATA- Housing material: aluminium housing- Dimensions (W x H x D): 100 x 30 x 85 mm- Weight: 247 g- Mounting options: DIN rail, wall mounting, flat surface (all require additional kit)OPERATING ENVIRONMENT- Operating temperature: -40 °C to 75 °C- Operating humidity: 10 % to 90 % non-condensing- Protection class: IP30REGULATORY & TYPE APPROVALS- Regulations: CE, UKCA, UCRF, ANRT, ICASA, FCC, IC, PTCRB, RCM, NTC, CB- Carriers: AT&T, Verizon, T-Mobile, UscellularEMC EMISSIONS & IMMUNITY- Standards:EN 55032:2015 + A11:2020EN 55035:2017EN IEC 61000-3-2:2019EN 61000-3-3:2013 + A1:2019EN 301 489-1:V2.2.3EN 301 489-17:V3.2.4Draft EN 301 489-52:V1.1.0- ESD: EN 61000-4-2:2009- Radiated immunity: EN IEC 61000-4-3:2006 + A1:2008 + A2:2010- EFT: EN 61000-4-4:2012- Immunity to overvoltages (AC mains connection): EN 61000-4-5:2014 + A1:2017- Surge immunity (AC mains line): EN 61000-4-5:2014 + A1:2017- CS: EN 61000-4-6:2014- DIP: EN 61000-4-11:2004 + A1:2017RF- Standards: EN 300 328 V2.2.2, EN 301 908-1 V13.1.1, EN 301 908-2 V13.1.1, EN 301 908-13 V13.1.1SAFETY- StandardsCE: EN IEC 62368-1:2020 + A11:2020RCM: AS/NZS 62368.1:2018CB: IEC 62368-1:2018

📄 Specifications

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