

Item no.: 386895

## RUT301 - ETH Router



from **64,27 EUR**

Item no.: 386895  
shipping weight: 0.30 kg  
Manufacturer: Teltonika

 Product Description

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Der RUT301 ist einer der kosteneffizientesten industriellen Ethernet Router auf dem IoT-Markt und bietet robuste Netzwerkkonnektivität mit erweiterten Sicherheitsfunktionen. Dieser Ethernet Router verfügt über fünf Ethernet-Ports, zwei konfigurierbare digitale I/Os und einen USB 2.0-Port für eine einfache Anpassung an Industriemaschinen, Unternehmens- oder Einzelhandelssysteme. Zusätzlich bietet der RUT301 eine vorkonfigurierte Firewall und unterstützt mehrere industrielle Kommunikationsprotokolle.

**ETHERNET- WAN:** 1 x WAN port 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX- LAN: 4 x LAN ports, 10/100 Mbps, compliance with IEEE 802.3, IEEE 802.3u, 802.3az standards, supports auto MDI/MDIX crossover NETWORK- 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)- 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- 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- Network backup: 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, 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 SECURITY- 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- 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- 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: 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- 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 its 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 protocol OPC 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 DATA 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 server MQTT GATEWAY- MODBUS MQTT Gateway: Allows sending commands and receiving data from MODBUS Server through MQTT broker DNP3- Supported modes: Station, Outstation- Supported connection: TCP, USB DLMS- DLMS Support: DLMS - standard protocol for utility meter data exchange- Supported connection types: TCP, USB API- 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: [https://developers.teltonika-networks.com/monitoring & management](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)- 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- 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- Cumulocity: Allows monitoring of: Device Model, Revision and Serial Number, WAN Type and IP- Azure IoT Hub: Allows monitoring of: Wan IP, Number of bytes send/received, Model, Manufacturer, Serial, Revision, FW version and collected data of industrial devices SYSTEM CHARACTERISTICS- CPU: Mediatek, 580 MHz, MIPS 24KEc- RAM: 128 MB, DDR2- FLASH storage: 16 MB serial NOR flash FIRMWARE / 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- 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 configuration FIRMWARE CUSTOMISATION- Operating system: RutOS (OpenWrt based Linux OS)- Supported languages: Busybox shell, Lua, C, C++- 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' needs. USB- 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, ext4 INPUT / OUTPUT- Input: 2 x Digital Input, 0 - 6 V detected as logic low, 8 - 30 V detected as logic high- Output: 2 x Digital Output, Open collector output, max output 40 V, 400 mA- Events: Email, RMS- I/O juggler: Allows to set certain I/O conditions to initiate event POWER- Connector: 4-pin industrial DC power socket- Input voltage range: 9 - 30 VDC, reverse polarity protection, voltage surge/transient protection- PoE (passive): Passive PoE can be installed upon request.- Power consumption: Idle: < 0.8 W, Max: < 3.8 W PHYSICAL INTERFACES- Ethernet: 5 x RJ45 ports, 10/100 Mbps- I/O's: 2 x Digital Input, 2 x Digital Output on 4-pin power connector- Status LEDs: 1 x WAN type LED, 4 x LAN status LEDs, 1 x Power LED- Power: 1 x 4-pin power connector- USB: 1 x USB A port for external devices- Reset: Reboot/User default reset/Factory reset button PHYSICAL SPECIFICATION- Casing material: Aluminium housing- Dimensions (W x H x D): 100 x 30 x 85 mm- Weight: 233 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 REGULATORY & TYPE APPROVALS- Regulatory: CE, UKCA, RCM, FCC, IC, CB, EAC, UCRF, WEEE

## Specifications

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

