RUT145

INDUSTRIAL ROUTER WITH RS485

The RUT145 is an industrial router with RS485 communication for manufacturing and automation, specifically designed to bridge the communication gap between RS485 field devices and IP networks. It provides seamless Ethernet/Wi-Fi connectivity combined with a native RS485 multi-drop interface. The device, running on RutOS, offers powerful network security and industrial data collection tools. Its narrow, DIN-rail-mountable design and integration with the RMS platform ensure secure remote and cost-efficient remote management at scale.

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RUT145

Power: 9-30 V ⎓   Default IP: 192.168.1.1

NATIVE RS485 CONNECTIVITY

Connect and manage multiple devices on a single RS-485 multi-drop bus

CLOUD-READY DATA COLLECTION

Collect and convert industrial data with Data to Server tool and native protocol support

DESIGNED FOR INDUSTRY

Narrow footprint with integrated DIN rail mounting and top-entry terminal block power

COMPLETE REMOTE CONTROL

Leverage the RMS platform for configuration, maintenance, VPN access, and unlimited data collection

RMS

REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUT145

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

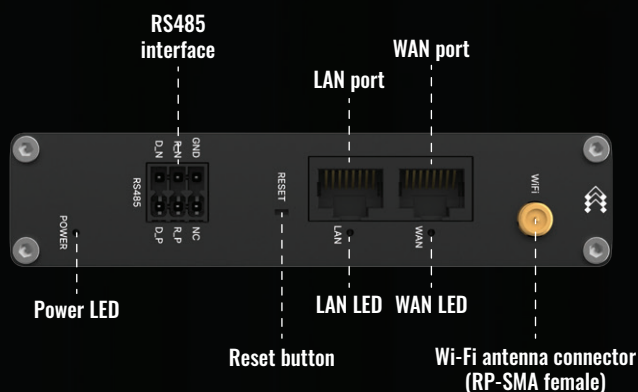## HARDWARE

CPU	Mediatek, 580 MHz, MIPS 24KEc
RAM	128 MB, DDR2
Storage	16 MB, NOR Flash
Powering options	3-pin industrial DC power socket, 9 - 30 VDC
Antenna connectors	1 x RP-SMA for Wi-Fi
Ethernet	2 x RJ45 ports, 10/100 Mbps: 1 x WAN (configurable as LAN), 1 x LAN
Wi-Fi	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
Serial	RS485
Grounding	1 x Grounding screw
Status LEDs	1 x WAN type LED, 1 x LAN type LED, 1 x Power LED
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing
Dimensions (W x H x D)	113.10 x 25 x 68.6 mm
Weight	140 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Wireless features	Wi-Fi security, SSID/ESSID, Wi-Fi users, Wireless Connectivity Features, Wireless MAC filter, Wireless QR code generator, TravelMate
Network features	Routing, Network protocols, VoIP passthrough support, Connection monitoring, Firewall, Firewall status page, Port management, Network topology, DHCP, QoS / Smart Queue Management (SQM), DNS over HTTPS, DDNS, Network backup, Load balancing, Hotspot, Hotspot 2.0, SSHFS, VRF support, Traffic Management, IGMP Proxy
Security	Authentication, Firewall, Attack prevention, VLAN, WEB filter, Access control, Certificate Manager, 802.1x
VPN and tunneling	VPN, OpenVPN, OpenVPN Encryption, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale, EoIP
Monitoring and Management	WEB UI, FOTA, SSH, Email, TR-069, MQTT, SNMP, JSON-RPC, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub, AWS IoT Core
Services	BacNET, OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM, API

FRONT VIEW ———————————— BACK VIEW

RS485 interface
LAN port
WAN port
RS485
POWER
RESET
LAN
WAN
WiFi
Power LED
Reset button
LAN LED   WAN LED
Wi-Fi antenna connector (RP-SMA female)

Integrated DIN rail bracket

Chassis
VIN
GND
Grounding screw