RUT906

E-MARK 4G ROUTER

E-mark cellular 4G router for industrial IoT applications, supporting serial interfaces RS232 and RS485, MQTT, BACnet, I/Os, Ethernet, and more. This cellular router is equipped with GNSS and failsafe features such as Dual SIM, auto-failover, and backup WAN.

CONNECTIVITY

4G LTE (Cat 4), 3G, 2G

DUAL SIM

Auto-failover, backup WAN, and more switching scenarios

INTERFACES & PROTOCOLS

Serial interfaces (RS232 & RS485), MQTT, BACnet, OPC UA, I/Os, Ethernet, and more

GNSS

NTRIP, location services and time synchronization

RMS

REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUT906

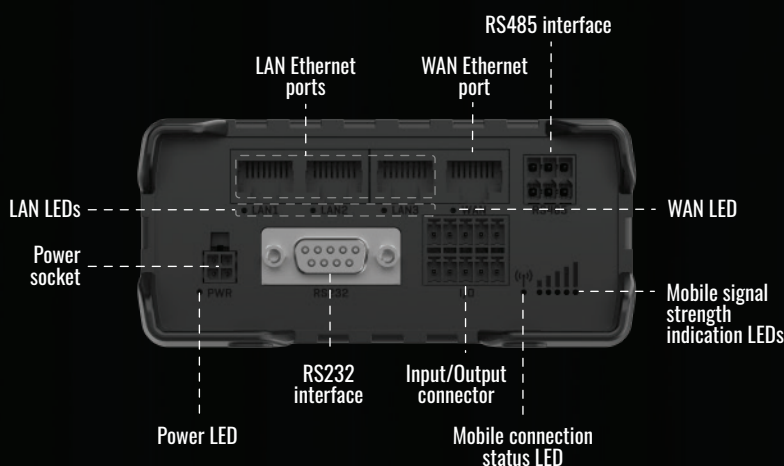MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

HARDWARE

Mobile	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps
CPU	Mediatek, 580 MHz, MIPS 24Kc
Memory	128 MB, DDR2
Storage	16 MB, SPI Flash
Powering options	4-pin industrial DC power socket, 9 - 30 VDC
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders, eSIM (Optional)
Antenna connectors	2 x SMA for LTE, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	4 x 10/100 Ethernet ports: 1 x WAN (configurable as LAN), 3 x LAN
Wi-Fi	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	2 x Inputs and 2 x Outputs on 10-pin industrial socket, 1 x Digital input and 1 x Digital output on 4-pin power connector
Serial	1 x RS232, 1 x RS485
Other	1 x USB host
Status LEDs	1 x bi-color connection status, 5 x Mobile connection strength, 4 x ETH status, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing, plastic panels
Dimensions (W x H x D)	109.5 x 50 x 100 mm
Weight	295 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Auto APN, Band lock, SIM switch, Operator black/white list, Data/SMS limits
Network features	Routing, Failover, Firewall, DHCP, DDNS, QoS / SQM, Load Balancing, VoIP passthrough, Connection monitoring, SSHFS
Monitoring and Management	WEB UI, CLI, SSH, CALL, SMS, TR-069, SNMP, JSON-RPC, MQTT, BACnet, DNP3, OPC UA, MODBUS, RMS
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP, L2TPv3, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc
Cloud solutions	RMS, FOTA, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx
Wireless Connectivity Features	Fast roaming (802.11r), Relayd
Hotspot	External/Internal Radius, SMS OTP, MAC authentication, Walled Garden
GNSS	NMEA forwarding, NTRIP, AVL, Geofencing

FRONT VIEW

- RS485 interface
- LAN Ethernet ports
- WAN Ethernet port
- LAN LEDs
- WAN LED
- Power socket
- Mobile signal strength indication LEDs
- Power LED
- RS232 interface
- Input/Output connector
- Mobile connection status LED

BACK VIEW

- SIM1 slot
- SIM2 slot
- Mobile antenna connector
- GPS antenna connector
- Mobile antenna connector
- Wi-Fi antenna connector
- Wi-Fi antenna connector
- USB connector