RUT956

INDUSTRIAL CELLULAR ROUTER

// RUT956 is an industrial router that combines dual-SIM cellular 4G LTE, Wi-Fi, and wired connectivity options and additionally offers GNSS capabilities.

// Automatic WAN failover ensures solution uptime even if the primary connection is lost.

// Serial communication interfaces enable integrating more varied devices to the solution ecosystem, even legacy equipment.

// Digital and analog Inputs/Outputs with advanced RutOS software features facilitate equipment control, automation, and event notifications.

// Packed with advanced industrial software features, including Modbus, SNMP, TR-069, NTRIP, MQTT, and multiple VPNs.

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

DUAL SIM
With auto failover, backup WAN and other switching scenarios

MULTIPLE INTERFACES
Ethernet, Serial (RS232, RS485) and multiple Inputs/Outputs for any industrial connectivity use case

GNSS
Global Navigation Satellite System for location services and time synchronization

RMS
REMOTE MANAGEMENT SYSTEM

COMPATIBLE WITH RUT956

MANAGEMENT | ALERTS | CONFIGURATION | ACCESS | FOTA

KEY FEATURES

HARDWARE

Mobile	4G LTE Cat 4 up to 150 DL/50 UL Mbps; 3G up to 21 DL/5.76 UL Mbps; 2G up to 236.8 DL/236.8 UL kbps
CPU	Mediatek, 580 MHz, MIPS 24KEc
Storage	16 MB Flash
Memory	128 MB RAM
Powering option	4-pin industrial power socket, 9 – 30 VDC
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders, eSIM (Optional)
SD Card	Micro SD (internal)
Antenna connectors	2 x SMA for mobile, 2 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	4 x 10/100 RJ45 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, QZSS
Inputs/Outputs	On 4-pin socket: 1 x Digital input, 1 x Digital open collector output On 10-pin socket: 1 x Isolated digital input, 1 x Digital dry input, 1 x Analog input, 1 x Isolated open collector output (requires external voltage), 1 x Relay output (non-latching)
Serial	1 x RS232, 1 x RS485
Other	1 x USB host
Status LEDs	1 x Bi-Color connection type, 5 x Signal strength, 4 x Ethernet, 1 x Power
Operating temperature	-40 °C to 75 °C
Housing	Aluminium housing, plastic panels
Dimensions (W x H x D)	110 x 50 x 100 mm
Weight	287 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, MODBUS, RMS
Cloud solutions	RMS, FOTA, Azure IoT Hub, Cumulocity - Cloud of Things, ThingWorx
NTP	NTP Server, NTP Client, Sync with: External NTP server, GNSS, Mobile operator
GNSS	NMEA forwarding, AVL, Geofencing
Modbus	TCP client, TCP server, RTU master, RTU gateway, Modbus over MQTT
Serial	Console, Over IP, Modem, NTRIP, Modbus

FRONT VIEW

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

BACK VIEW

SIM1 slot
SIM2 slot
Mobile AUX antenna connector
GPS antenna connector
Mobile MAIN antenna connector
Reset button
Wi-Fi antenna connector
Wi-Fi antenna connector
USB port
SIM needle