

RUTC50



RUTC50 360° VIEW

5G POWERHOUSE WITH WI-FI 6

Unleash the full potential of your edge applications with the RUTC50 5G router. This compact powerhouse combines ultra-fast 5G (up to 3.4 Gbps), dual-band Wi-Fi 6, and enhanced processing power with 1GB RAM and 8GB flash memory. Featuring dual SIM and eSIM for global, touch-free deployments, the RUTC50 delivers lightning-fast, low-latency communication for mission-critical operations. Rugged, powerful, and future-ready.



5G

Ultra-high cellular speeds up to 3.4 Gbps

Wi-Fi 6

Dual-band multi-user MIMO for superior wireless

PROCESSING POWER

1GB RAM and 8GB flash for edge computing applications

eSIM

Global, touch-free deployments



RMS COMPATIBLE WITH RUTC50

MANAGEMENT

ALERTS

CONFIGURATION

ACCESS

FOTA

REMOTE MANAGEMENT SYSTEM

KEY FEATURES

HARDWARE

Mobile	5G Sub-6 Ghz SA/NSA 2.4/3.4 Gbps DL (4x4 MIMO), 900/550 Mbps UL (2x2); 4G (LTE) – LTE Cat 19 1.6 Gbps DL, Cat 18 200 Mbps UL; 3G – 42 Mbps DL, 5.76 Mbps UL
CPU	Mediatek, Dual-core, 1.3 GHz, ARM Cortex A53
RAM	1GB, DDR4
Storage	16MB serial NOR flash, 8GB eMMC
TPM	Identification and authentication module, TPM 2.0 standard
Powering options	4-pin industrial DC power socket, 9 - 50 VDC
eSIM	Consumer type eSIM, profile download and removal operations, up to 7 eSIM profiles; does not include data plans
SIM	2 x SIM slots (Mini SIM - 2FF), 1.8 V/3 V, external SIM holders
Antenna connectors	4 x SMA for Mobile, 3 x RP-SMA for Wi-Fi, 1 x SMA for GNSS
Ethernet	5 x RJ45 ports, 10/100/1000 Mbps: 1 x WAN (configurable as LAN), 4 x LAN
Wi-Fi	802.11b/g/n/ac/ax (Wi-Fi 6) with data transmission rates up to 2402Mbps on 5GHz, 576Mbps on 2.4GHz (Dual Band, MU-MIMO)
GNSS	GPS, GLONASS, BeiDou, Galileo and QZSS
Inputs/Outputs	1 x Configurable digital Input, 0 - 6 V detected as logic low, 8 - 50 V detected as logic high, 1 x Configurable digital Output, Open collector output, max output 50 V, 300 mA
Grounding	1 x Grounding screw
Status LEDs	4 x WAN status, 3 x Mobile connection type, 3 x Mobile connection strength, 10 x LAN status, 1 x Power, 2 x 2.4G and 5G Wi-Fi
Operating temperature	-40 °C to 75 °C
Housing	Anodized aluminum housing and panels
Dimensions (W x H x D)	130.4 x 42.6 x 103.4 mm
Weight	452 g

SOFTWARE

Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	eSIM, SIM switch, Status, SMS, USSD, Block/Allow list, Multiple PDN, Band management, SIM idle protection service, SIM PIN code management, APN, Bridge, Passthrough, Framed routing
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, Ports 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, Port Mirroring
Security	Authentication, Firewall, Attack prevention, VLAN, Mobile quota control, WEB filter, Access control, TPM, SSL certificate generation, 802.1x
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP, ZeroTier, WireGuard, Tinc, Tailscale
Monitoring and management	WEB UI, FOTA, SSH, SMS, Call, Email, TR-069, MQTT, SNMP, JSON-RPC, MODBUS, RMS
Cloud solutions	RMS, ThingWorx, Cumulocity - Cloud of Things, Azure IoT Hub
Services	OPC UA, Modbus, Data to Server, Modbus MQTT GATEWAY, DNP3, DLMS/COSEM
Location tracking	GNSS, Coordinates, NMEA, NTRIP, Server software, Geofencing

FRONT VIEW

BACK VIEW

