RUTX50 5G Next Generation Router

RUTX50

The dual-SIM, multi-network RUTX50 ensures uninterrupted, ultra-fast 5G mobile communication, making it perfect for data-heavy applications. Its adaptability for future upgrades and backwards compatibility with 4G and 3G gives you all the future-proofing you need.

+ Rugged, compact, and plug-and-play.

+ Delivers speeds up to 3.3 Gbps (4x4 MIMO).

+ Can handle up to 150 devices.

+ Ultra-low, single-digit latency.

+ Supports SA and NSA architectures.

+ Comes with RutOS for advanced security features.

+ Compatible with our Remote Management System.

Hardware features

Mobile	5G Sub-6Ghz SA/NSA 2.1/3.3Gbps DL (4x4 MIMO), 900/600 MB/s UL (2x2).
	4G (LTE) – LTE Cat 20 2.0Gbps DL, 200MB/s UL.
	3G – 42 MB/s DL, 5.76MB/s UL.
CPU	Quad-core ARM Cortex A7, 717 MHz.
Memory	256 MB (100 MB available for userspace).
Ethernet	5 x RJ45 ports, 10/100/1000 MB/s.
Wi-Fi	802.11b/g/n/ac Wave 2 (WiFi 5) with data transmission rates of up to 867 MB/s (Dual Band, MU-MIMO), 802.11r fast transition, Access Point (AP), Station (STA).
Power Supply	1 x 4-pin DC power connector.
PoE (passive)	Mode B, LAN1 Port, 9 - 50 VDC.
Operating temperature	-40°C to 75°C.
Housing	Aluminium housing with DIN rail mounting option.
Connectors	5 x RJ45 ports 10/100/1000 MB/s, 1 x Digital Input, 1 x Digital Output on 4-pin power connector, 4 x SMA for Mobile, 2 x RP-SMA for WiFi, 1 x SMA for GNSS, 1 x 4 pin DC connector, 1 x USB A port for external devices, 1 x Reboot/User default reset/Factory reset button, 1 x Grounding screw.
SIM	2 x SIM slot (Mini SIM – 2FF) 1.8 V/3 V.
Status LEDs	3 x connection status LEDs, 3 x connection strength LEDs, 10 x Ethernet port status LEDs, 4 x WAN status LEDs, 1x Power LED, 2 x 2.4G and 5G WiFi LEDs.

Weight	533g.
Dimensions (WxHxD)	132mm x 44.2mm x 95.1mm.
Networking features	Static/Dynamic routing, Firewall, OpenVPN, IPSec, Static and dynamic IP allocation, Possibility to mount remote file system via SSH protocol.
Unique features	Port and tag-based VLAN separation, Mobile quota control, WEB Filter, Flexible access control of TCP, UDP, ICMP packets, MAC address filter, L2TP Client/Server services can run simultaneously, L2TPv3 support.
Connection monitoring	Ping Reboot, Wget Reboot, Periodic Reboot, LCP and ICMP for link inspection.
Authentication	Pre-shared key, digital certificates, X.509 certificates.
Keep settings	Update FW without losing current configuration.
Monitoring and management	WEB UI, FOTA, SSH, SMS, CALL, TR-069, MQTT, SNMP, JSON-RPC, MODBUS, RMS.
Supported languages	Busybox shell, Lua, C, C++.
Development tools	SDK package with build environment provided.

Software features

Operating system	RutOS (OpenWrt based Linux OS).
SIM switch	2 SIM cards with auto-switch functionality.
Multiple PDN	Possibility to use different PDNs for multiple network access and services.
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SMTP, SSL v3, TLS, PPP, PPPoE, SSH, DHCP, SNMP, MQTT, Wake on LAN (WOL).