

S9932-5G



Features

- 5G / LTE / 3G Support
- Serial Port (RS232 / 485)
- Modbus TCP / MQTT
- Failover/Failback
- IPSec VPN
- OpenVPN
- L2TP / PPTP
- GRE Tunneling
- DMVPN
- Firewall
- MAC / IP Filter
- DoS/DDoS Protection
- HTTPS / SSH Connection
- Static & Dynamic Routing
- BGP
- OSPF / RIP
- VLAN
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP / Syslog / Event Log
- OTA Software Update
- SMS Commands
- Cloud Management Platform (Optional)
- Wi-Fi 6
- WPA2 / WPA3
- MAC Filter
- Connection timers
- Ping / Uptime Watchdog
- Task definition via script
- TLS over MQTT
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Technical specifications

Dimensions and weight

- Height: 29.70mm
- Width: 111.05mm
- Depth: 98mm
- Weight: 292g

Environmental

- Operating Temperature: -30~70°C
- Storage Temperature: -30~85°C
- Humidity: 5% ~ 95%
- Operating Voltage: DC 5V~48V
- IP 54 Protection

Certifications

- **ATEX Zone 1 & 21 Certified** II 2G Ex db IIB T6 Gb / II 2D Ex tb IIIC T85°C Db (No: ICR/VC/HM2512206)
- E-Mark
- CE

General specifications

CPU	MT7981
Memory	512MB
Storage	16MB
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Scripted tasks
SPI Flash	16MB
Module	RM500U EA (M.2) · 3GPP Rel-16 · 5G NR SA/NSA · CAT16 / CAT12 / CAT8 / CAT6 / CAT4

Interfaces and Configuration

LAN	2x100/1000 Mb
WAN	1x100/1000 Mb
DHCP Server	DHCP Server/Client/Relay, DNS
Serial port	1 * Serial port (RS232/RS485)

Cellular Features

SIM Support	2 x U-SIM Card
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Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection Identity-Based Firewall MAC/IP filtering DoS/DDoS protection
Filters	Access restriction Wireless access restriction
Misc	Security logging Security alarms Packet capture logging (pcap dump file)

GNSS / GPS Features (Optional)

Chipset	ATGM336D
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 Galileo: E1, E5a BDS: B1I, B2a
Default Systems	GPS + GLONASS + Galileo + BDS +QZSS
Number of Concurrent GNSS	4 + QZSS
Accuracy	4 + QZSS
SBAS	WAAS, EGNOS, MSAS ve GAGAN

Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform (Optional) TR-069
Version Management	Image Checksum Active version and backup version Automatic rollback feature when remote upgrade fails
Account Management	Integrated Admin/Guest accounting TACACS/TACACS+, Radius Auth. models
Retrievable Parameters	CLI Command line access SNMP Remote monitoring and management Web-based graphical interface management

Cellular Modem Features

APN Data Services	Dynamic APN support SIM PIN management Bridge Mode Support Band/cell lock SMS 2X2 MIMO Uplink
Modem Interface Configuration	SIM Slot selection Full band scanning Modem Band Lock Automatic/Optional dialing Radio Enable/Disable Pppd and DHCP dialing options
Modem Backup	Supports backup on interface drop. Supports backup on traffic flow interruptions Supports automatic connection recovery.
Cellular Bands	5G NR NSA: n1/n3/n7/n28/n38/n40/n41/n77/n78; 5G NR SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n77/n78; LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28/B66; LTE TDD: B38/B40/B41; WCDMA: B1/B2/B5/B8 2 Gbps DL / 1 Gbps UL (SA) 2.6 Gbps DL / 650 Mbps UL (NSA)

Wi-Fi

Chipset	MT7976C
Wi-Fi Features	Dual band (2.4 GHz and 5 GHz) MIMO 802.11 a/b/g/n/ac/ax RF, 20/40/80/160 MHz bandwidth MIMO configuration: 3x3 MIMO A-band + 2x2 MIMO G-band Integrated 2.4 GHz/5 GHz PA, LNA and TRSW. Integrated power detector to support per-packet Tx power control Built-in calibrations for PVT variation Configurable Wi-Fi 2.4/5 GHz PA for higher efficiency in low-power applications. 20/40/80/160 MHz Supports external PA and LNA for WiFi-2.4 GHz and WiFi-5 GHz.
MIMO	3x3 MIMO A-band+ 2x2 MIMO G-band
Wireless Security	WPA2, WPA3
Mode	IEEE 802.11 a/b/g/n/ac/ax

Network Features

Routing	Static Routing, Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-Based Routing (PBR) VRF
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Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN MPLS Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
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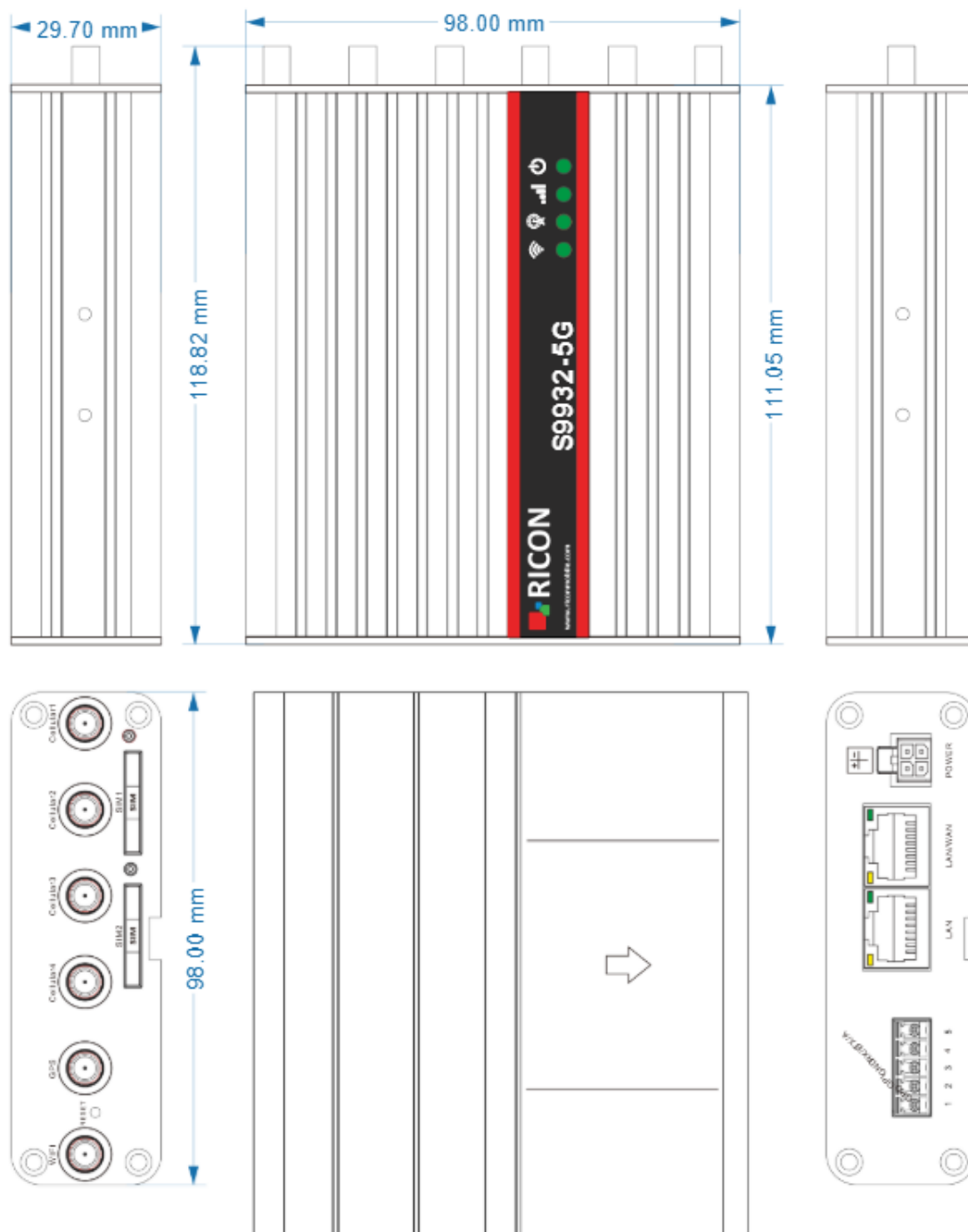
Routing	NAT Support Port Forwarding DMZ Support
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Load Balancing	Per-Packet Routing Support
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Mobile	NSA 2,6 Gbps DL/650 Mbps UL · SA 2 Gbps DL/1 Gbps UL
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Defaults

Box Contents	S9932-5G 4 x 5G Antenna 2.4 GHz and 5 GHz WiFi antenna GPS antenna (Optional) Molex Mini-Fit Jr (6-pin, 2×3) Power connector DIN Rail mounting kit
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About Ricon

At Ricon, we create technologies that make communication easier.

As a 24-year-old B2B technology innovation company, we design networks that sense, think, and act across mobile, fixed, and cloud networks.

Service providers, enterprises, and partners around the world trust Ricon today to deliver secure, reliable, and sustainable networks, and work with us to create the digital services and applications of the future.

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