S9932-5G



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RICON S9932-5G, is a high-performance router with 5G (3GPP Rel-16) cellular connectivity, designed for harsh industrial environments with its IP54-protected aluminum housing and compact design. It offers comprehensive connectivity options with Gigabit LAN/WAN ports, dual SIM, Wi-Fi 6, an RS232/RS485 serial interface and digital input/output (DI/DO) connections. Its wide 5–48 V DC power input range allows easy integration into different industrial systems.

S9932-5G supports uninterrupted communication needs with 5G/LTE/3G network support and automatic connection backup (failover/failback). While Modbus TCP and MQTT protocols transfer field data to cloud systems, IPSec, OpenVPN and DMVPN support provide secure remote access. It is a suitable and dependable solution for industrial automation, energy management and IoT applications of all kinds.

S9932-5G can be configured via the web interface and CLI; it can be monitored centrally and managed remotely through the Ricon Management System (RMS). Optional GNSS/GPS and eSIM support adapts it to field needs.

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 (Optional)
- Wi-Fi 6
- WPA2 / WPA3
- MAC Filter
- Connection timers
- Ping / Uptime Watchdog
- Task definition via script file
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Specifications

Dimensions and Weight

- Height: 29.70mm
- Width: 122mm
- Depth: 98mm

Environmental

- Operating Temp.: -30~70°C
- Storage Temperature: -30~85°C
- Humidity: 5% ~ 95%
- Operating Voltage: DC 5V~48V
- IP54 Protection

Certifications

- **ATEX Zone 1 & 21 Certified II 2G Ex db IIB T6 Gb / II 2D Ex tb IIIC T85°C Db**

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General Specs

CPU	MT7981
Memory	512MB
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Script tasks
SPI Flash	32MB
Module	Quectel RM500U-EA (M.2) • 5G NR SA/NSA (3GPP Rel-16) • LTE-A Cat 12/Cat 13

Interfaces and Configuration

LAN	1x1000 Mb
WAN	1x1000 Mb
DHCP Server	DHCP Server/Client/Relay, DNS
Serial port	1 * Serial port (RS232/RS485)

Cellular Features

SIM Support	2 x U-SIM Cards

Security Features

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

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GNSS / GPS Features (Optional)

Chipset	ATGM336H-5N32
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 BDS: B1I, B2a
Default Systems	GPS + GLONASS + BDS +QZSS
Number of Simultaneous GNSS	4 + QZSS
SBAS	WAAS, EGNOS, MSAS and GAGAN

Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management (Optional) TR-069
Version Management	Image Checksum Active version and backup version Automatic rollback 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

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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 scan Modem Band Lock Automatic/On-demand dialing Enable/Disable Radio Pppd and DHCP dialing options
Modem Backup	Supports backup on interface failure. Supports backup on traffic flow interruptions Supports automatic connection recovery.
Cellular Bands	5G NR/NSA n1/ 3/ 7/ 28/ 38/ 40/ 41/ 77/ 78 5G NR/SA n1/ 3/ 7/ 28/ 38/ 40/ 41/ 77/ 78 LTE-FDD B1/ 2/ 3/ 4/ 5/ 7/ 8/ 20/ 28/ 66 LTE-TDD B38/ 40/ 41 WCDMA B1/ 2/ 5/ 8 Carrier Aggregation: Supported

Wi-Fi

Chipset	MT7981
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 Internal 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

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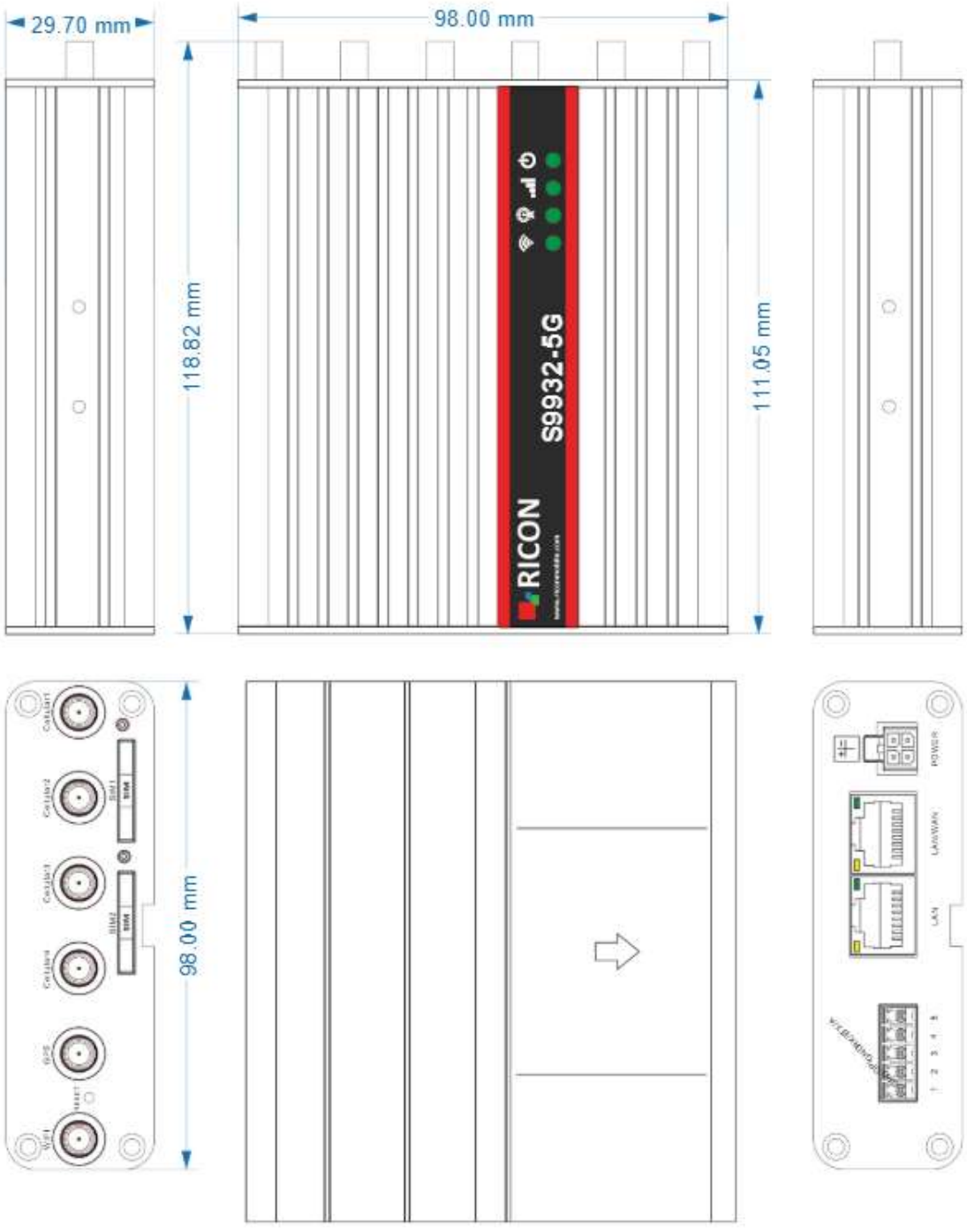
Network Features

Routing	Static Routing, Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-Based Routing (PBR) Support VRF
Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN MPLS Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
Routing	NAT Support Port Forwarding DMZ Support
Load Balancing	Per-Packet Routing Support
Mobile	5G: 2.6 Gbps DL/1 Gbps UL · LTE: 600 Mbps DL/150 Mbps UL

Defaults

Default Box Contents	S9932-5G 1 x Power Adapter 1 x Serial connector 1 x Rack mount kit 4 x RCN-LTE-ANT-IND LTE Antennas 1 x WiFi antenna 1 x Ethernet cable 1 x GPS antenna

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29.70 mm
98.00 mm
118.82 mm
111.05 mm
S9932-5G
RICON
98.00 mm
POWER
LAN/WAN
LAN

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About Ricon

Ricon is a B2B technology company developing network technologies for the secure, uninterrupted and sustainable communication needs of businesses. With industry experience and a technology-driven approach, it delivers connectivity, communication and management solutions for mobile, fixed and cloud networks.

Helping service providers, businesses and partners build reliable and scalable network infrastructures, Ricon supports the development of strong and sustainable communication infrastructures with solutions that adapt to changing digital needs and requirements.

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