

## S9924i-5G



**RICON S9924i-5G Router** by Ricon Mobile Inc. Industrial grade quality, designed and manufactured in accordance with 5G/LTE cellular network technology. With embedded cellular module, ATM connection, remote office security connection, data collection etc. It is widely used in many cases such as.

**Ricon Mobile S9924i-5G Router** provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service. S9924i-5G Router, Single Module Single SIM hardware type. The best throughput value of the S9924i-5G Router is 2.5 Gbps.

**Mobile S9924i-5G Routers** are web-based and easily routed through CLI. In addition, the Ricon Management System (RMS) successfully accomplishes the goal of reducing the maintenance costs with the ability to access all the Ricon products in the network and to access instant and statistical data on the web environment and manage them 100%.

## Features

- 5G / 4G / 3G support
- Dual SIM / Multi-SIM
- Failover/Failback
- IPSec VPN
- OpenVPN
- L2TP / PPTP
- GRE Tunneling
- DMVPN
- Firewall
- MAC / IP Filtering
- DoS/DDoS Protection
- HTTPS / SSH Access
- Static & Dynamic Routing
- BGP
- OSPF / RIP
- VLAN
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- SMS Command
- Cloud Management Platform
- Wi-Fi 5
- MAC Filtering
- Gigabit Ethernet ports
- USB Port
- Serial Port (RS232/RS485)
- GPIO
- Connection timers
- Ping / Uptime Watchdog
- Automation with SMS
- Task definition with script
- Modbus TCP / MQTT
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

## Technical specifications

### Dimensions and weight

- Height: 178mm
- Width: 105mm
- Depth: 28mm
- Weight: 464gr
- Industrial aluminum metal body
- IP 30 protection

### Environmental

- Idle: 80mA + 12VDC
- Single Module Power Consumption: <5W
- Power Supply: 5 - 35VDC

### Certified

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

## General specifications

CPU	Qualcomm IPQ4019 Quad-Core ARM Dual Cortex A9 @2.2GHz
Memory	512MB
Storage	eMMC – Samsung C499918 5.1 HS400 4Gb /w SLC mode partitioning (8Gb Full Size)
HW Watchdog	Connection schedulers Ping / Uptime Watchdog SMS automation Scripting tasks
SPI Flash	32MB

## Interfaces and Configuration

LAN	4 x 10/100/1000 BaseT(MDI-X)
WAN	1 x 10/100/1000 BaseT(MDI-X)
DHCP Server	DHCP Server/Client/Relay, DNS

## Cellular Specifications

Cellular Modem Module	Quectel RM520N-GL
Module Type	M.2
Region	Global
Chipset	Qualcomm SDX62 5G
Category	5G: 3GPP Rel-16
Cellular Bands (SDX62)	5G NR/NSA n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 5G NR/SA n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79 LTE-FDD B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29①/ 30/ 32①/ 66/ 71 LTE-TDD B34/ 38/ 39/ 40/ 41/ 42/ 43/ 46① (LAA)/ 48 (CBRS) DL 3CA Intra-Band and Inter-band DL 256QAM/ UL 64QAM Supported
SIM Support	2 x U-SIM Cards

## Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection
Filters	Access restriction Restricting wireless access
Misc	Security logging Security alarms Packet capture logging (Dump to file pcap)

## GNSS / GPS Features

Chipset	ATGM336D
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 Galileo: E1, E5a BDS: B1I, B2a
Default Constellations	GPS + GLONASS + Galileo + BDS + QZSS
Number of Concurrent GNSS	4 + QZSS
Protocols	OSPF Routing protocols RIP Routing protocols WPA2 Wi-Fi encryption protocols Industrial data communication protocols
SBAS	WAAS, EGNOS, MSAS and GAGAN

## Management Features

Management Interfaces	<ul style="list-style-type: none"> <li>Web GUI (HTTPS)</li> <li>CLI (SSH / Telnet)</li> <li>SNMP</li> <li>Syslog / Event Log</li> <li>OTA Firmware Update</li> <li>SMS Command</li> <li>Cloud Management Platform</li> </ul>
Version Management	<ul style="list-style-type: none"> <li>Image Checksum</li> <li>Active version and backup version</li> <li>Auto rollback feature when remote upgrade fails</li> </ul>
Accounts Management	<ul style="list-style-type: none"> <li>Integrated Admin/Guest accounting</li> <li>TACACS/TACACS+, Radius Auth. models</li> </ul>
Retrievable Parameters WEB UI / CLI / TR-069 / SNMP	<ul style="list-style-type: none"> <li>CLI Command-line access</li> <li>SNMP Remote monitoring and management</li> <li>Web-based graphical interface management</li> </ul>

## Cellular Modem Features

APN Data Services	<ul style="list-style-type: none"> <li>Dynamic APN support</li> <li>SIM PIN management</li> <li>Bridge Mode Support</li> </ul>
Modem Interface Configuration	<ul style="list-style-type: none"> <li>SIM Slot selection</li> <li>Full band-scan</li> <li>Modem Band-Lock</li> <li>Auto/On-Demand dial</li> <li>Enable/Disable Radio</li> <li>Pppd and DHCP dialing options</li> </ul>
Modem Failover	<ul style="list-style-type: none"> <li>Support fail-over on interface drop.</li> <li>Support fail-over on traffic flow interruptions</li> <li>Support Automatic connection recovery.</li> </ul>

## Wi-Fi

Chipset	Qualcomm IPQ4019 Integrated
Wi-Fi Specifications	2x2/40MHz Radio 2.4GHz, 5GHz full band support Up to 64 concurrent clients 2.4 GHz (WiFi4) IEEE802.11 a/b/g/n 20/40MHz Support Tx Output Frequency Range: 2400~2496 MHz 5.8 GHz (WiFi5) IEEE802.11 n/ac 20/40MHz Support Tx Output Frequency Range: 4900~5925 MHz
MIMO	2x2 DL MIMO MU-MIMO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2, WPA3 Client Encryption: AES, TKIP
Mode	Accesspoint, WiFi Client (Station) modes supported **MU-MIMO is supported with both modes above **2x2 DL MIMO is supported with both modes above

## Networking Features

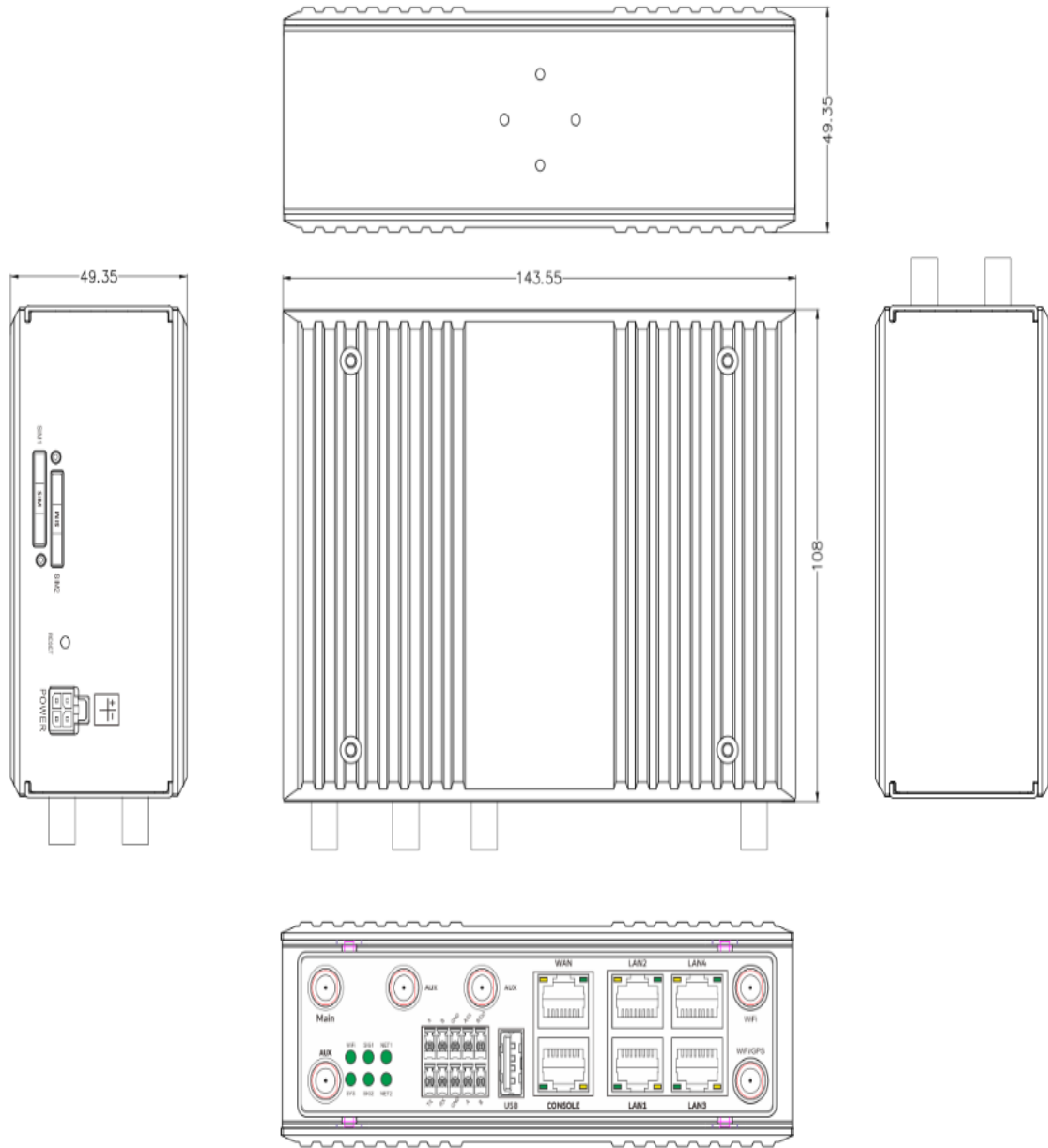
Routing	Static Routing ,Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-based Routing (PBR)
Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
Forwarding	NAT Support Port Forwarding DMZ Support
Load Balancing	Per-Package Forwarding Support

## Ordering Information & Accessories

S9924i-5G	High-Speed Mobile Router – 5G NR Single Cellular Radio Interface 4xLAN Gigabit, 1xWAN Gigabit PoE, 2xSIM Slots 2.4GHz-5GHz Wi-fi 802.11b/g/n/ac
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## Defaults

Default Box Contents	1 x S9924i-5G Router Hardware 2 x 3M Antennas for 5G 2 x WiFi antenna for 2.4GHz and 5GHz 1 x 1m. CAT6 Ethernet patch cable 1 x DIN-Rail mounting kit 1 x 12VDC 1.5A 18W Power Supply
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## About Ricon

At Ricon, we create technology that brings the communication handy.

As a 24 years B2B technology innovation company, we are designing networks that sense, think and act across mobile, fixed and cloud networks.

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

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