S9924i-5G



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RICON S9924i-5G, is a high-performance router with 5G (3GPP Rel-16) cellular connectivity, designed for industrial and enterprise applications requiring high bandwidth. 4 × Gigabit LAN, 1 × Gigabit WAN, dual SIM and dual-band Wi-Fi support offer comprehensive connectivity options. Thanks to its RS232/RS485 serial interface, USB port and optional GNSS/GPS support, it can be easily integrated into different industrial systems and IoT infrastructures.

S9924i-5G supports network continuity with dual SIM and automatic failover/failback between cellular and wired connections. 5G connectivity capacity and multiple Gigabit Ethernet ports make it a flexible and powerful connectivity solution for high-resolution IP camera systems, industrial automation, IoT/Modbus gateways, enterprise branches and temporary field deployments.

S9924i-5G can be configured via the web interface and CLI; it can be monitored centrally and managed remotely through the Ricon Management System (RMS). With SMS-based Zero-Touch provisioning support, it simplifies the commissioning of devices and helps reduce the need for field intervention as well as overall operational costs.

Features

- 5G / 4G / 3G support
- Dual SIM / Multi-SIM
- 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
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- TR-069
- SMS Commands
- Cloud Management Platform
- Wi-Fi 5
- MAC Filtering
- Gigabit Ethernet ports
- USB Port
- Serial Port (RS232/RS485)
- GPIO
- Connection Timers
- Ping / Uptime Watchdog
- Automation via SMS
- Task definition via script file
- Modbus TCP / MQTT
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Specifications

Dimensions and Weight

- Height: 49.35mm
- Width: 108mm
- Depth: 143.55mm
- Rugged industrial aluminum metal housing
- IP54 protection

Environmental

- Power Supply: 5 - 48VDC

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	MT7621 Dual-Core MIPS 1004Kc @880MHz
Memory	512MB
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Script tasks
SPI Flash	16MB

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 Features

Cellular Modem Module	Quectel RM500U-EA
Module Type	M.2
Region	Global
Category	5G NR SA/NSA (3GPP Rel-16) · LTE-A Cat 12 (DL) / Cat 13 (UL)
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
SIM Support	2 x U-SIM Cards

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Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection
Filters	Access restriction Wireless access restriction
Misc	Security log Security alarms Packet capture log (pcap to dump file)

GNSS / GPS Features (Optional)

Chipset	ATGM336H-5N32
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 BDS: B1I, B2a
Default Constellations	GPS + GLONASS + BDS + QZSS
Number of Simultaneous 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	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP TR-069 Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform
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 WEB UI / CLI / TR-069 / SNMP	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
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.

Wi-Fi

Chipset	MT7615D
Wi-Fi Features	2x2/40MHz Radio 2.4GHz, 5GHz full-band support Up to 20~25 simultaneous 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	Access Point and WiFi Client (Station) modes are supported **MU-MIMO is supported in both of the above modes **2x2 DL MIMO is supported in both of the above modes

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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
Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
Routing	NAT Support Port Forwarding DMZ Support
Load Balancing	Per-Packet Routing Support

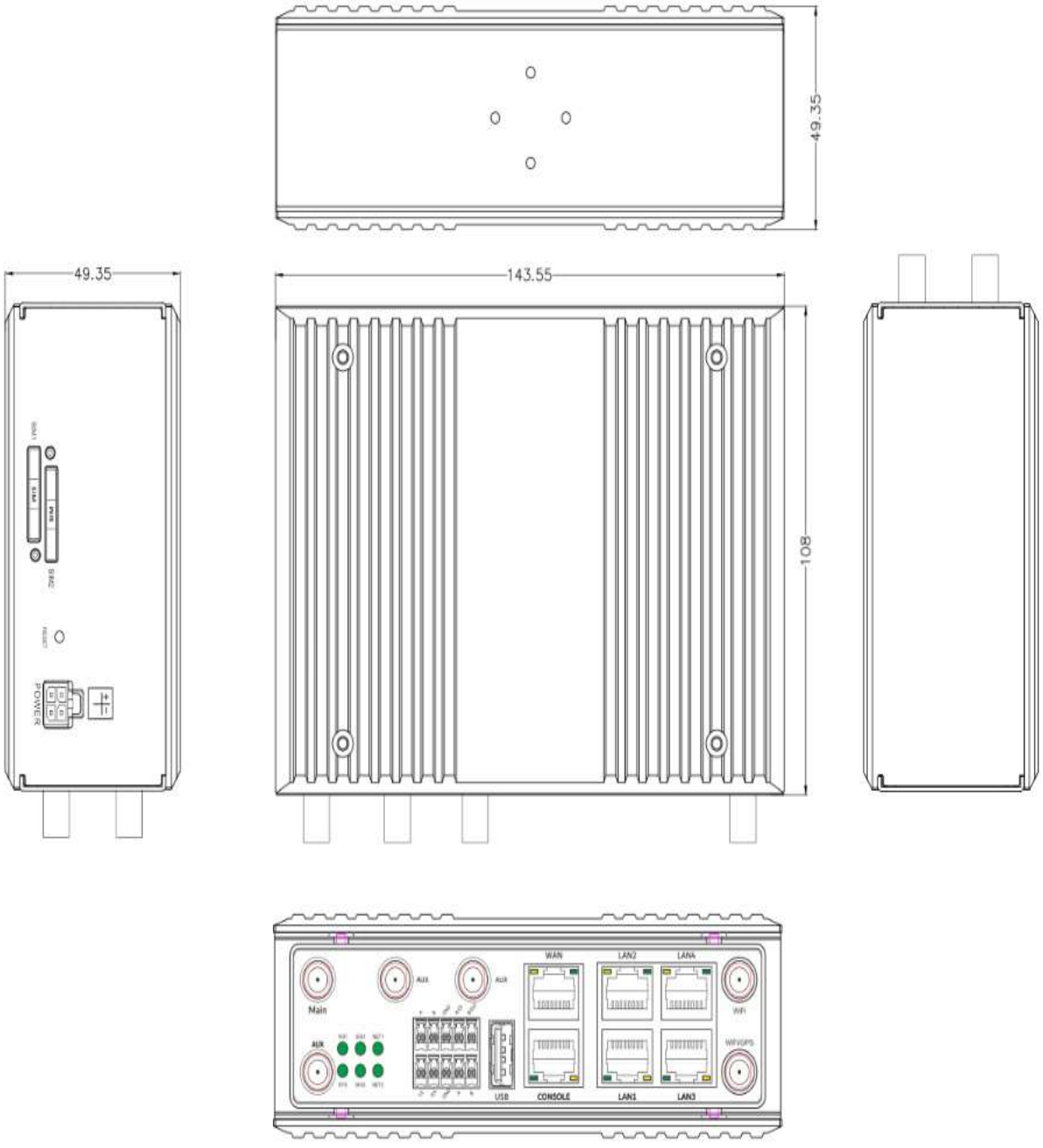
Ordering Information and Accessories

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

Defaults

Default Box Contents	1 x S9924i-5G Router Hardware 1 x 12VDC 1.5A 18W Power Supply 2 x Serial connectors 1 x Rack mount kit 4 x RCN-LTE-ANT-IND LTE Antennas 1 x WiFi antenna for 2.4GHz and 5GHz 1 x 1m. CAT6 Ethernet patch cable

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49.35
143.55
49.35
108
POWER
Main
AUX
AUX
WAN
LAN2
LAN4
WiFi
AUX
USB
CONSOLE
LAN1
LAN3

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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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