S9924i-LTE



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RICON S9924i-LTE, is a high-performance router with LTE Cat.4 cellular connectivity, designed for industrial and enterprise network applications. With 4 × Gigabit LAN, 1 × Gigabit WAN, dual SIM and dual-band Wi-Fi support, it offers 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-LTE supports network continuity with dual SIM and automatic failover/failback between cellular and wired connections. With multiple Gigabit Ethernet ports and LTE connectivity, it offers a flexible and efficient solution for enterprise branches, retail stores, IP camera systems, industrial automation and remote field monitoring applications that do not require 5G.

S9924i-LTE 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

- LTE / 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 4
- WPA2
- 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
- Serial Port (RS232/RS485)
- 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 EC200A
Region	Global
Chipset	UNISOC 8910DM
Category	LTE: Cat.4
Cellular Bands	LTE-FDD B1/ 3/ 5/ 7/ 8/ 20/ 28 LTE-TDD B38/ 40/ 41 WCDMA B1/ 5/ 8 GSM / EDGE B3/ B8
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

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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

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.

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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

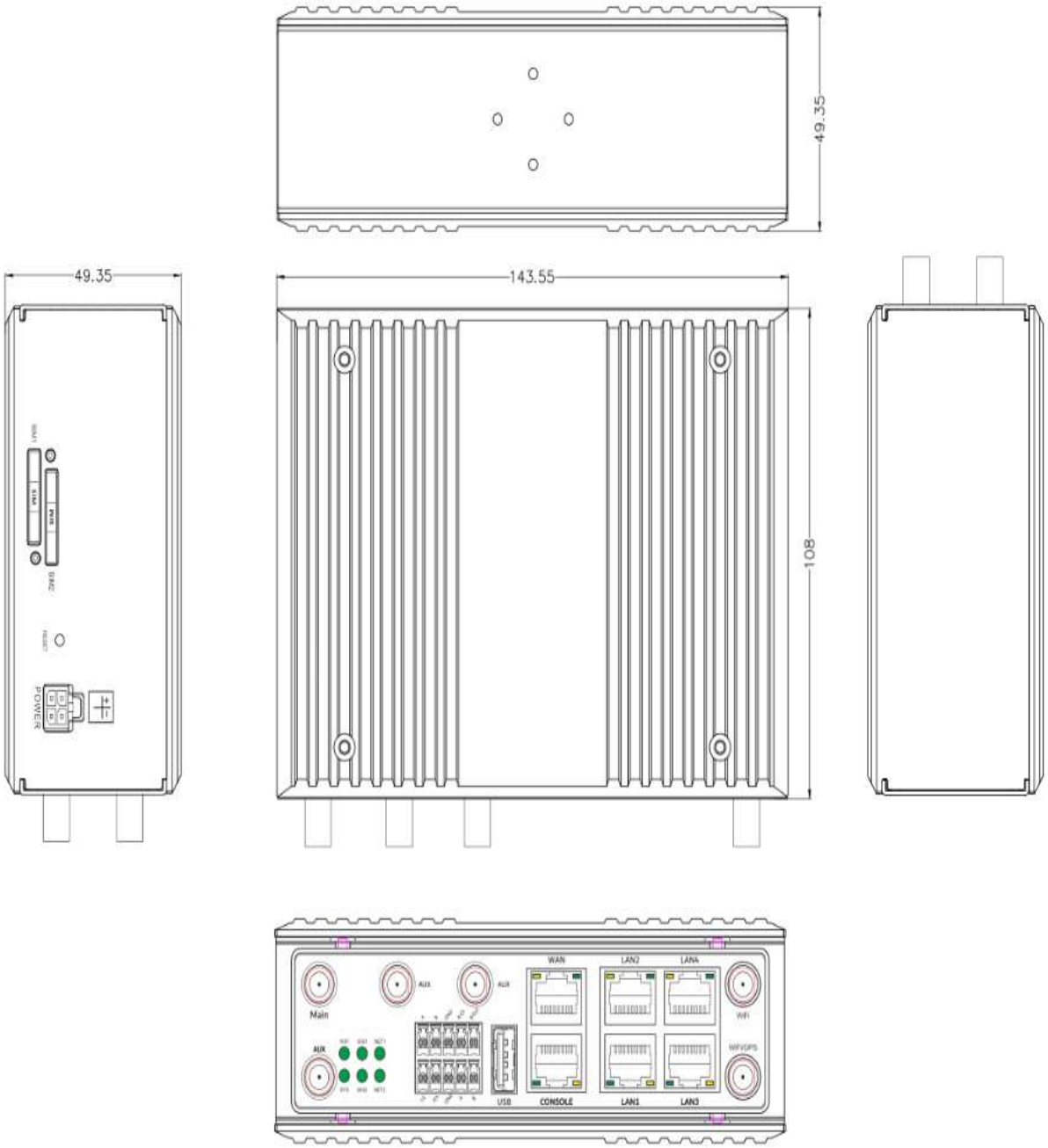
Ordering Information and Accessories

S9924i-LTE	High-Speed Mobile Router - CAT4 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-LTE Router Hardware 4 x 3M Antennas for 4G 1 x WiFi antenna for 2.4GHz and 5GHz 1 x 1m. CAT6 Ethernet patch cable 1 x DIN-Rail mount kit 1 x 12VDC 1.5A 18W Power Supply

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

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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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