S9922MC-LTE



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RICON S9922MC-LTE, is an ultra-compact router with LTE Cat.4 cellular connectivity, designed for use in tight spaces and industrial panels. Its 75 × 60 mm housing and DIN rail mounting support allow it to be easily integrated into limited spaces. With 1 × Fast Ethernet LAN, 1 × WAN/LAN, a single SIM slot and an RS232/RS485 serial interface, it offers flexible connectivity options for different field equipment. Its wide 5–35 V DC power input range adapts to industrial power supply systems.

S9922MC-LTE, with serial communication and Modbus TCP/MQTT support, allows data collected from PLCs, RTUs and metering devices to be transferred to IP networks and cloud platforms. With its compact design and industrial connectivity features, it offers a suitable solution for SCADA systems, industrial automation, energy monitoring, ATM and remote telemetry applications.

S9922MC-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, it simplifies the commissioning of field devices and helps reduce maintenance needs, on-site visits and operational costs.

Features

- LTE / 4G / 3G support
- 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
- TR-069
- Syslog / Event Log
- OTA Software Update
- SMS Commands
- Cloud Management Platform
- Wi-Fi 4
- WPA2
- MAC Filtering
- Serial Port (RS232/RS485)
- 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: 75mm
- Width: 60mm
- Depth: 28mm
- Weight: 190g
- Rugged industrial aluminum metal housing
- IP54 Protection

Environmental

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

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	MT7628AN
Memory	128MB
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Script tasks
SPI Flash	16MB

Interfaces and Configuration

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

Cellular Features

Cellular Modem Module	EC200A-EU
Module Type	PCIE
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 900/1800 MHz
SIM Support	1 x U-SIM Card

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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)

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	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 establishment.

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Wi-Fi

Chipset	MT7628AN
Wi-Fi Features	Wi-Fi Radio : 1x1 MIMO / 20/40 MHz Frequency Band: 2.4 GHz only Client Capacity :Up to 20~25 simultaneous clients (depends on hardware/device) Wi-Fi Standard (2.4 GHz) : IEEE 802.11 b/g/n MIMO Configuration : 1x1 Channel Bandwidth : 20/40 MHz Modulation : BPSK, QPSK, 16-QAM, 64-QAM Tx Output Frequency Range : 2400–2483.5 MHz Maximum Data Rate: Up to ~150 Mbps (with 40 MHz channel) Security Protocols : WEP, WPA, WPA2 (AES/TKIP) Total Wi-Fi Throughput : Up to ~150 Mbps (ideal conditions, 802.11n, 40 MHz)
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2 Encryption: AES, TKIP
Mode	Access Point and WiFi Client (Station) modes are supported

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

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Ordering Information & Accessories

S9922MC-LTE	CAT4 Cellular Radio Interface 1xLAN, 1xWAN/LAN Fast Ethernet, 1xSIM Slot 2.4GHz Wi-Fi 802.11b/g/n

Defaults

Default Box Contents	1 x S9922MC-LTE Router Hardware 1 x 12VDC 1.5A 18W Power Supply 1 x Serial connector 1 x Rack mount kit 2 x RCN-LTE-ANT-IND LTE Antennas 1 x WiFi antenna for 2.4GHz 1 x 1m. CAT6 Ethernet patch cable

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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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