S9922M22E-LTE



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RICON S9922M22E-LTE, is a compact, industrial-grade router with LTE Cat.4 cellular connectivity, designed for small-scale remote field applications. Its dual SIM slot, 1 × Fast Ethernet LAN and 1 × Fast Ethernet WAN/LAN port provide reliable network access at locations with a limited number of devices. Thanks to its compact structure and flexible connectivity options, it can be easily integrated into tight spaces and distributed field infrastructures.

S9922M22E-LTE supports network continuity with dual SIM and automatic failover/failback between cellular and wired connections. Its compact design and connection redundancy make it a suitable solution for applications where connection continuity is important, such as ATMs, kiosks, POS terminals, remote monitoring and data collection systems.

S9922M22E-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 and 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
- 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 Filter
- Connection timers
- Ping / Uptime Watchdog
- Automation via SMS
- Task definition via script file
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Specifications

Dimensions and Weight

- Height: 135mm
- Width: 105mm
- Depth: 27mm
- Weight: 300g
- 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
WAN/LAN	1x10/100 BaseT
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	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)

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	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

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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

S9922M22E-LTE	CAT4 Cellular Radio Interface 1xLAN, 1xWAN/LAN Fast Ethernet, 2xSIM Slots 2.4 GHz Wi-Fi 802.11b/g/n

Defaults

Default Box Contents	1 x S9922M22E-LTE Router Hardware 1 x 12VDC 1.5A 18W Power Supply 2 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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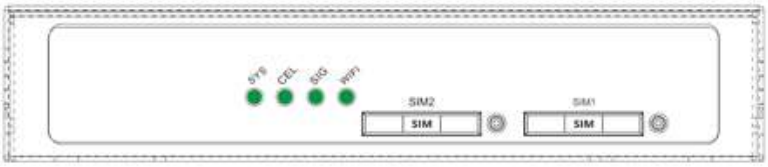
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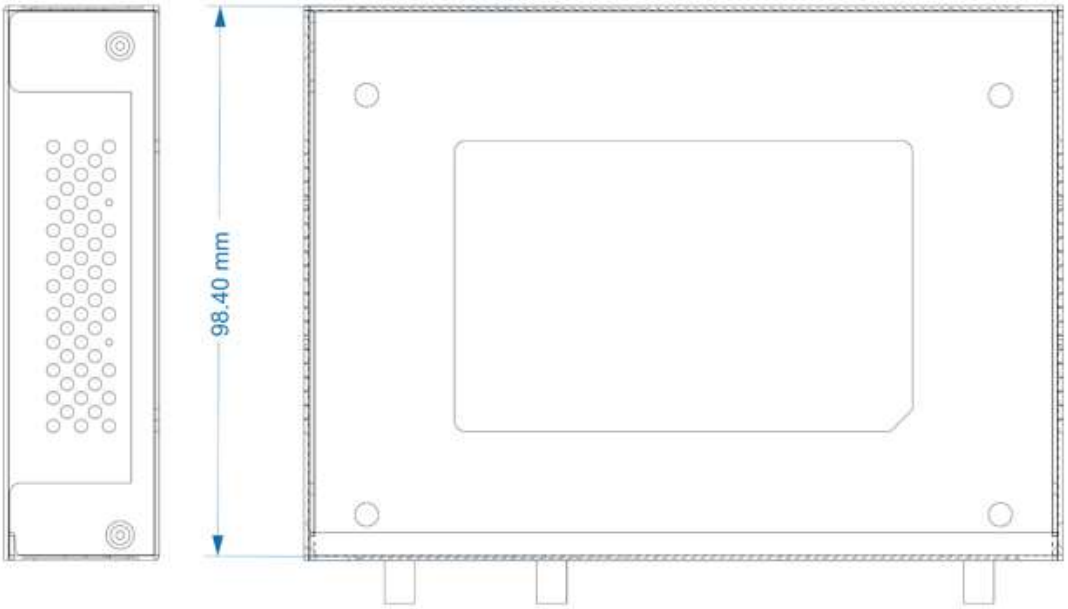
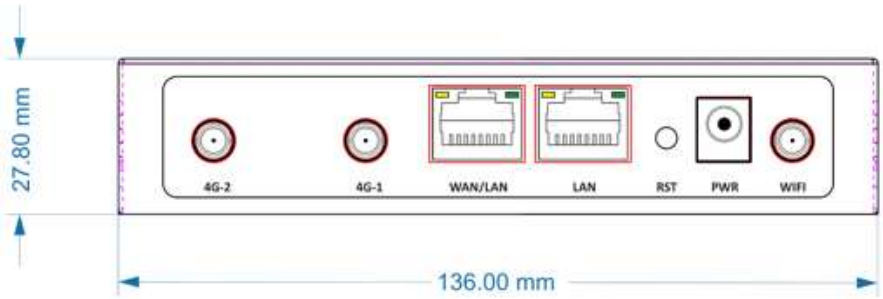

98.40 mm


27.80 mm
4G-2
4G-1
WAN/LAN
LAN
RST
PWR
WIFI
136.00 mm

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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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