S9922MC2-LTE

The RICON S9922MC2-LTE Router by Ricon is an industrial-grade device designed and manufactured according to 3G/LTE cellular network technology standards. Equipped with an embedded cellular module, it is widely used in applications such as ATM connectivity, remote office security connections, data collection, and more.

The S9922MC2 Router delivers maximum service efficiency to customers, while its Zero Touch SMS installation feature minimizes the need for field service by enabling easy and automatic product setup. The S9922MC2 is a Single Module, Single SIM hardware type device. It offers a maximum throughput of 200 Mbps.

A unique feature of the S9922MC2 Router is its ability to operate online with redundancy across WAN, WLAN, and 3G/LTE networks. This capability ensures maximum network availability and significantly reduces the risk of network failures, thereby preventing potential losses caused by connectivity interruptions.

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Features

- LTE / 4G / 3G support
- 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
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- Syslog / Event Log
- OTA Firmware Update
- SMS Command
- Cloud Management Platform
- Wi-Fi 4
- WPA2
- MAC Filtering
- Connection timers
- Ping / Uptime Watchdog
- Automation with SMS
- Task definition with script
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Technical specifications

Dimensions and weight

- Height: 75mm
- Width: 60mm
- Depth: 28mm
- Weight: 190gr
- Industrial aluminum metal body
- IP54 protection

Environmental

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

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General specifications

CPU	MT7628AN
Memory	128MB
HW Watchdog	Connection schedulers Ping / Uptime Watchdog SMS automation Scripting tasks
SPI Flash	16MB

Interfaces and Configuration

LAN	2 x 10/100BaseT(MDI-X)
WAN	1 x 10/100 Mb
DHCP Server	DHCP Server/Client/Relay, DNS

Cellular Specifications

Cellular Modem Module	EC200A-EU
Module Type	PCIE
Region	Global
Chipset	UNISOC 8910DM
Category	LTE: Cat.4
Cellular Bands (SDX62)	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 Slot

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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 (Optional)

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

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Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform
Version Management	Image Checksum Active version and backup version Auto rollback feature when remote upgrade fails
Accounts 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 Auto/On-Demand dial Enable/Disable Radio Pppd and DHCP dialing options
Modem Failover	Support fail-over on interface drop. Support fail-over on traffic flow interruptions Support Automatic connection recovery.

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Wi-Fi

Chipset	MT7628AN
Wi-Fi Specifications	Wi-Fi Radio : 1x1 MIMO / 20/40 MHz Frequency Band : 2.4 GHz only Client Capacity : Up to ~32 concurrent clients (depends on firmware/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	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

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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

S9922MC2-LTE	CAT4 Cellular Radio Interface 1xLAN, 1xWAN Fast Ethernet, 1xSIM Slots 2.4GHz Wi-fi 802.11b/g/n

Defaults

Default Box Contents	1 x S9922MC2-LTE Router Hardware 1 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 mounting kit 1 x 12VDC 1.5A 18W Power Supply
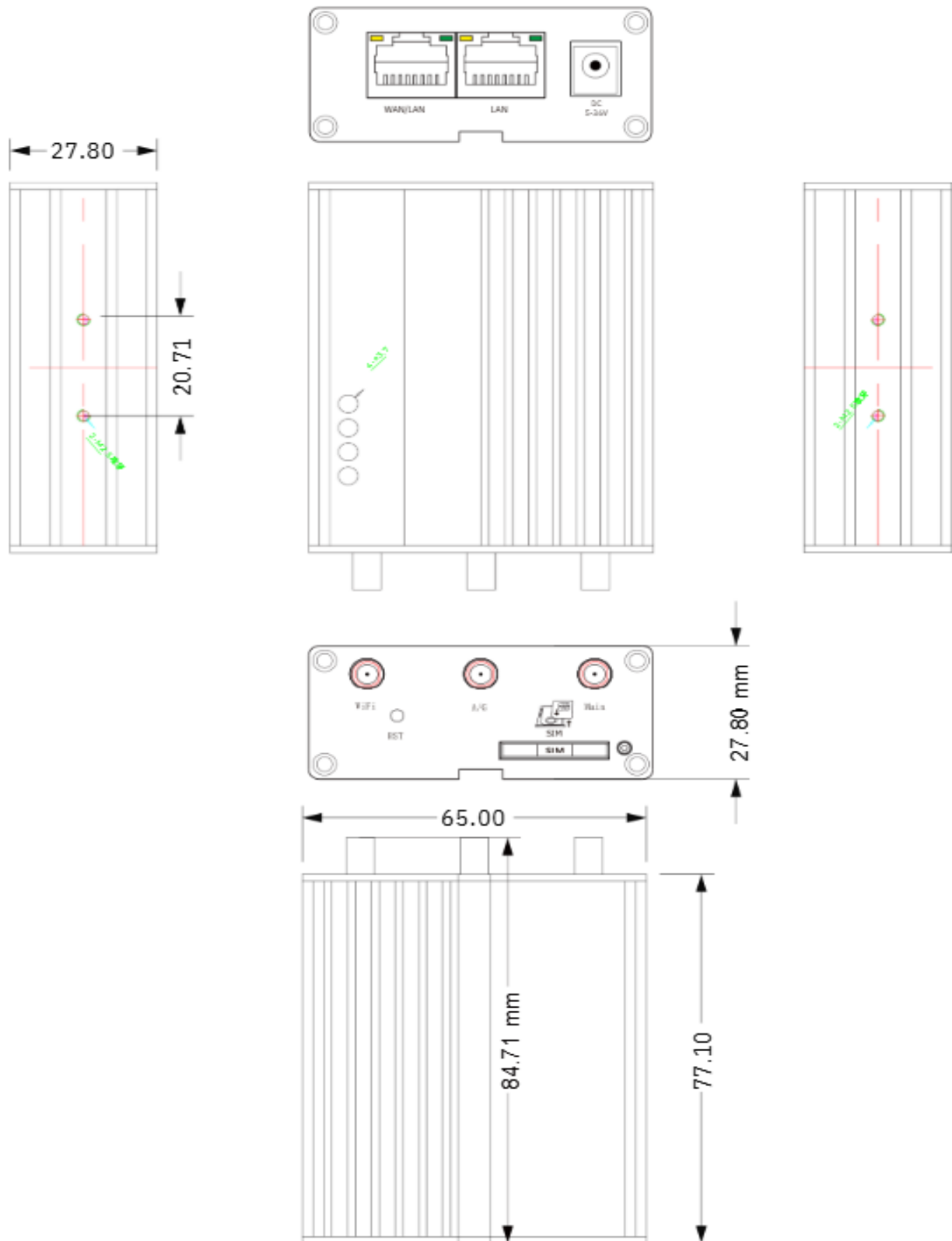
About Ricon

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

As a 22 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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