

S9922MC2X



RICON S9922MC2X Router by Ricon Mobile Inc. Industrial grade quality, designed and manufactured in accordance with 3G/LTE cellular network technology. With embedded cellular module, ATM connection, remote office security connection, data collection etc. It is widely used in many cases such as.

Ricon Mobile S9922MC2X Router provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service. S9922MC2X Router, Single Module Single SIM hardware type. The best throughput value of the S9922MC2X Router is 200 Mbps.

Mobile S9922MC2X Routers are web-based and easily routed through CLI. In addition, the Ricon Management System (RMS) successfully accomplishes the goal of reducing the maintenance costs with the ability to access all the Ricon products in the network and to access instant and statistical data on the web environment and manage them 100%.

Features

- LTE / 4G / 3G support
- Dual SIM / Multi-SIM
- 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
- Cloud Management Platform
- Wi-Fi 4
- WPA2
- MAC Filtering
- Connection timers
- Automation with SMS
- Task definition with script
- Modbus TCP / MQTT
- Serial Port (RS232/RS485)
 - MQTT over TLS
 - Identity-Based Firewall
 - Cloud Access Control (CASB)
 - TLS Inspection

Technical specifications

Dimensions and weight

- Height: 98mm
- Width: 107mm
- Depth: 24mm
- Weight: 354g
- Industrial aluminum metal body
- IP30 protection

Environmental

- Idle: 80mA + 12VDC
- Single Module Power Consumption: <5W
- Operating Voltage: DC 9V to 60V

Certified

- **Certifications: Not Applicable II 2G**
Ex db IIB T6 Gb / II 2D Ex tb IIIC
T85°C Db (No: ICR/VC/HM2512206)

General specifications

CPU	MediaTek MT7628 (MIPS24KEc, Single-Core, 580 MHz)
Memory	64MB
HW Watchdog	UNION UM706RS
SPI Flash	16MB

Interfaces and Configuration

LAN	2 x 10/100TBase Ethernet
WAN	1x10/100 Mb
DHCP Server	DHCP Server/Client/Relay, DNS

Cellular Specifications

Cellular Modem Module	EC200A-EU
Module Type	Mini PCIe
Region	Europe / Asia-Pacific
Chipset	ASR1803
Category	LTE:3GPP Release 9 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 / EDGE B3/ 8
SIM Support	2 x U-SIM Cards

Security Features

Firewall	SPI Firewall Prevents anonymous requests from WAN port MAC Filtering, IP Filtering
Filters	Access Restrictions (IP/MAC/URL per time period) DNS Filtering, MAC Filtering, Data Flow Filtering
Misc	System log storage and forwarding Standard Linux TCPdump packet capture

GNSS / GPS Features (Optional)

Chipset	(Optional)
Supported Bands	(Optional)
Default Constellations	(Optional)
Number of Concurrent GNSS	(Optional)
Protocols	OSPF Routing protocols RIP Routing protocols WPA2 Wi-Fi encryption protocols Industrial data communication protocols
SBAS	(Optional)

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Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log
	M2M Management Platform (Cloud Platform Protocol V2.0)
Version Management	(Optional)
Accounts Management	Integrated Admin/Guest accounting
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 unlock (PIN password unlock)

Modem Interface Configuration

SIM Slot selection
Configurable MTU size for WAN port
SIM card backup function switch
Automatic mode / full frequency band mode
Modem frequency band locking / Enable-Disable 4G
PPP and DHCP dialing options, IMS function enable/disable

Modem Failover

Support fail-over on interface drop.
Support fault switching between SIM1/SIM2 and wired network
Support Automatic connection recovery.

Wi-Fi

Chipset

MediaTek MT7628

Wi-Fi Specifications

Supports 2.4GHz Wi-Fi
IEEE 802.11b/g/n standards
Max speed: up to 54 Mbps (IEEE 802.11b/g)
Max speed: up to 150 Mbps (IEEE 802.11n, optional 300 Mbps)
SISO

Region

Global

Wireless Security

Protocols: WEP, WPA, WPA2

WEP, WPA, WPA2, Client Mode (AES, TKIP)

Mode

AP (Access Point) and Client modes

Networking Features

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 QoS

Ordering Information & Accessories

S9922MC2X	CAT4 Cellular Radio Interface (Quectel EC200A-EU) 2xLAN, 1xWAN Fast Ethernet, 2xSIM Slots 2.4GHz Wi-Fi 802.11b/g/n, 2x SIM Slots
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Defaults

Default Box Contents	1 x S9922MC2X Router Hardware 2 x Multi-Band Omni-Directional Antennas for 4G LTE 1 x WiFi antenna for 2.4GHz 1 x 1m. CAT5 Ethernet patch cable 2 x Fixed plate mounting kit 1 x 12VDC 1.0A 12W Power Supply
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About Ricon

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

As a 24 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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