

Ricon Mobil

S9922MC-LTE



4.5G Industrial Router  
Datasheet

Efficiency Through Innovative Technology

## S9922MC-LTE Industrial Router

**RICON S9922MC-LTE Router**, by Ricon Mobile Inc. Industrial grade quality, designed and manufactured in accordance with 3G/LTE cellular network technology. With the embedded cellular module, It is widely used in many cases such as ATM connection, remote office security connection, data collection etc.

Ricon Mobile S9922MC router provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service. S9922MC Router, Single Module Single SIM hardware type. The best throughput value of the S9922MC Router is 200 Mbps. The unique feature of the S9922MC Router is that it is online and redundant over the network between WAN, WLAN, 3G / LTE network. This feature allows the S9922MC to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Mobile S9922MC 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%.



## S9922MC-LTE Models & Specifications



S9922MC-LTE



- LTE / 3.5G support, 2.5G / 3G compatibility
- 1 x 10/100Base Ethernet LAN Interface
- 1 x RS232 / RS485 Interface
- 1 x SIM Slots
- Single GSM Module
- VLAN Support (LINK TAG/UNTAG)
- LTE+/LTE/DC-HSPA/HSDPA+/HSDPA/WCDMA/2G
- WEB User Interface UI/CLI/SNMP/Telnet/SSH
- Ricon Management System (RMS), SNMP
- Component-level Industrial Design
- 2x2 LTE MIMO SMA Antenna
- 1 x 802.11b/g/n Wi-Fi Antenna
- 802.11b/g/n Wi-Fi
- MODBUS-TCP Protocol Support

## S9922MC-LTE Router Specification

### Interfaces



- » LAN : 1 x 10/100BaseT(MDI-X)
- » RS232 / RS485 : 1 x 6 Pin Terminal Socket
- » SMA-K (LTE MIMO) : 2 x LTE/3G/2G
- » SIM / R-UIM : 1 x USIM Slot
- » Reset Switch : 1
- » DC Power socket : 1 x 3 Pin Terminal Socket

### Indicators



- » LTE : RF Indicator
- » POWER : Power Status
- » WLAN : Wireless LAN Connection
- » WAN : Wide Area Network Cable Connection Status
- » LAN : Local Area Cable Connection Status

### Power Specifications



- » On Idle : 80mA + 12VDC
- » Single Module Power Consumption : <5W
- » Power Feed : 5 - 36VDC

### Dimension



- » Dimensions : 75mm x 60mm x 28mm
- » Weight : 190 gr.
- » Industrial Aluminum Alloy Metal Housing

## S9922MC-LTE Industrial Router

### Cellular Networks

- » EDGE/GPRS
- » Ethernet Standard
- » FDD-LTE/TDD-LTE
- » WCDMA/UMTS/HSPA/HSPA+/CDMA2000 EVDO/CDMA 1x
- » IEEE 802.3
- » IEEE 802.3U

### Wi-Fi

- » Standard: IEEE 802.11b/g/n
- » AP, Client, Station, Bridge Mode Support
- » WEP, WPA and WPA2 encryption w/AES-TKIP
- » IEEE 802.11ac Optional 5Ghz Wi-Fi support
- » SSID Isolation Support
- » Channel manipulation support
- » 20Mhz/40Mhz beamer support

### Environment Parameters

- » Operation Temp. : -40 °C ~ +75 °C
- » Shelf Temp : -45 °C ~ +85 °C
- » Related humidity : <%95 (yoğuşmasız)

### VPN

- » IPsec
- » PPTP/L2TP client
- » GRE/EoGRE
- » OpenVPN, DMVPN

### Device Management

- » Local or remote web browser
- » CLI/Telnet command
- » RMS Ricon Management System (optional)
- » SSH config (optional)
- » Standard: IEEE 802.11b/g/n(ac optional)
- » AP, Client, station, bridge mode support
- » WEP, WPA and WPA2 encryption

### Multiple Links Connection Insurance

- » Wifi Access Point for SME and End User
- » Industrial type CAT4 / CAT6 (Optional) GSM module
- » Using a wireless router with 3G / 4.5G mobile network
- » ModBus TCP Protocol support with RS232 / RS485 interface
- » Backup between 4.5G Mobile network and Wireless WAN
- » Remote management with SNMP or Ricon Management Platform and setup

### Firewall & Filtering

- » IP packet/Domain/MAC Filter
- » NAT
- » DMZ
- » VPN Pass Through
- » Statefull Firewall

### Feature

- » Support feature customize with API
- » CPU: Arm Cortez Dual Core
- » SDRAM: DDR2 256 MB
- » Flash: 128MB

### Certifications

» Health	EN 62311
» Safety	EN 60950 - 1+A11+A1+A12
» EMC	EN 301-489-1/-7/-17/-24
	EN 55022, EN 55024
» Radio	EN 301 511
	EN 301 908-1/-2
	EN 300 328



## S9922MC-LTE Industrial Router

### Routing Protocols

- » Statik route
- » RIPv2 / OSPF dynamic route
- » VRRP

### Maintenance Operation

- » Local / remote firmware and patch upgrade support
- » Parameter backup, import
- » Encryption support
- » Smart switch support when using multiple servers
- » Easy to debug local / remote system log

### Secure Data Transmission

- » 1024 bit encryption GRE / L2TP / PPTP / IPSec / OpenVPN / EoGRE
- » GRE over IPSec, IPSec over PPTP/L2TP
- » Supports DHCP Server, DHCP Forwarding
- » SNMP network management, NTP support
- » OSPF, RIP, BGP support
- » QoS (Quality of Service) protocol

### RMS Ricon Management System

- » Excellent monitor feature
- » Data flow detail
- » Instant statistics data
- » Adjustable SLA Levels
- » SLA based live alarm control
- » Bulk remote configuration
- » Remote configuration with timer
- » Remote terminal management maintenance
- » Checking the status of the Internet at any time
- » Display of GIS device location
- » Remote debugging
- » Flow static and analysis
- » Automatic installation (ZTP-RF)

### EMC4 Industrial Design

- » Aluminum alloy outer housing, IP64 protection
- » System security isolation, Particularly suitable for the application of industrial control field
- » Wide working power (DC 5-35V)
- » Antenna lightning protection
- » SIM/UIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection

### Network Connection Features

- » 4G (TD-LTE / FDD LTE), DS-HSPA +, HSPA +, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, EDGE / GPRS
- » EWAN, WLAN, SIM1
- » WLAN AP/station/repeater, 802.11n(802.11ac optional), at most 300Mbps
- » 1 LAN port
- » WAN support ADSL(PPPoE), static IP, DHCP client
- » VPDN, APN
- » 802.11b / g / n Wi-Fi
- » Supports DNS proxy and Dynamic DNS (DDNS)

# CONTACT

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