

# Ricon Mobile S9922M2



## 4.5G Industrial Router Datasheet

Efficiency Through Innovative Technology

## S9922M2-4.5G Industrial Router



**RICON S9922M2 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 S9922M2 router provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service. S9922M2 Router, Single Module Single SIM hardware type. The best throughput value of the S9922M2 Router is 200 Mbps. The unique feature of the S9922M2 Router is that it is online and redundant over the network between WAN, WLAN, 3G / LTE network. This feature allows the S9922M2 to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Mobile S9922M2 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%.

## S9922M2 Models & Quick Specifications



### S9922M2-LTE



- 4 x 10/100TBase Ethernet LAN Interface
- 1 x 10/100TBase Ethernet WAN Interface
- 2 x SIM Slots (Passive Backup)
- Single GSM Module
- (4.5G)LTE+/LTE/DC-HSPA+/HSPA+/HSPA/(3G)WCDMA/2G
- WEB UI/CLI/SNMP/Telnet/SSH
- Ricon Management System (RMS)
- Component-level Industrial Design
- 2x2 LTE MIMO SMA Antenna
- 802.11b/g/n Wi-Fi

## S9922M2 Router Specification

### Interfaces



- » 2 x 10/100BaseT LAN Interface (MDI-X)
- » 1 x 10/100BaseT WAN Interface
- » 1 x 10/100BaseT WAN/LAN Interface
- » 2 x SMA-K antenna connector (MIMO)
- » 2 x Standard SIM/R-UIM Interface
- » 1 x Reset Switch
- » 1 x WPS Switch
- » 1 x DC Power socket

### Indicators



- » 3G/4G1 : RF Indicator
- » 3G/4G2 : RF Indicator
- » SIG1 : GSM Module 1 Signal Attachment
- » SIG2 : GSM Module 2 Signal Attachment
- » DATA : Connection Establishment
- » RUN : System O/S Health
- » WLAN : Wireless LAN Connection
- » WAN : Wide Area Network Cable Connection Status
- » LAN : Local Area Cable Connection Status (Lan1~Lan4)

### Power



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

### Physical Specs



- » Dimensions : 135mm x 101mm x 127mm
- » Weight : 360 gr.
- » Industrial Alloy Metal Housing

## S9922M2-4.5G Industrial Router

### Cellular Networks



- » EDGE/GPRS
- » FDD-LTE/TDD-(4.5G)LTE
- » (3G)WCDMA/UMTS/HSPA/HSPA+ CDMA2000 EVDO/CDMA 1x
- » Ethernet Standard
- » 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
- » Dual Mesh Radio Application with 802.11ac

### Temperature Recognition

- » Operation Temp.: -20°C to +70°C
- » Store Temp: -40°C ~ +85°C
- » Related humidity: <95 (noncondensing)

### VPN

- » IPSec
- » PPTP/L2TP client
- » GRE/IPIP
- » OpenVPN

### Device Management

- » Local or remote web browser (IE v8 or above)
- » 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

- » Dual SIM single module for cold backup
- » Dual SIM dual module for hot backup or for load balance
- » SIM/WAN backup, dual SIM backup
- » WAN/SIM1/SIM2, links backup

### Firewall & Filtering

- » IP packet/Domain/MAC Filter
- » NAT
- » DMZ

### Feature

- » Support OpenWrt
- » Support feature customize with API
- » CPU: 580MHz
- » 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



## S9922M2-4.5G Industrial Router

### Routing Protocols

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

### Multiple Working Modes

- » LED monitor
- » Internal Storage
- » Support WEB, CLI, SSH, multiple parameter management
- » Data trigger online/offline
- » LCP/ICMP/flow/heartbeat check, ensure network usability

### Ultra Secure Data Transmission

- » VPN support GRE/L2TP/PPTP/IPSec/OpenVPN
- » GRE over IPSec, IPSec over PPTP/L2TP
- » Supports DHCP Server
- » SNMP network management, NTP support, GPS clock support
- » OSPF, RIP, BGP optional
- » Optional QoS (Quality of Service) smart control base on protocol, application, IP subnet

### Easy Maintenance Operation

- » Local / remote firmware and patch upgrade support
- » Parameter backup, import and encryption support
- » CFE firmware update support
- » Support console port maintenance
- » Smart switch support when using multiple servers
- » Easy to debug local / remote system log

### Full Network Mode

- » 4G(TD-LTE/FDD LTE), DS-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, EDGE/GPRS
- » WAN, WLAN, SIM1\SIM2 multiple way network
- » WLAN AP/station/repeater, 802.11n(802.11ac optional), at most 300Mbps
- » 4 LAN port
- » WAN support ADSL(PPPoE), static IP, DHCP client
- » Support VPDN, APN private network
- » 802.11b/g/n(ac optional) Wi-Fi optional, WPS key
- » Supports DNS proxy and Dynamic DNS (DDNS)

### 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

### EMC4 Industrial Design, Stable and Durable

- » Aluminum shell, IP30 protection
- » System security isolation, Particularly suitable for the application of industrial control field
- » Wide range power supply (DC 5-35V)
- » Support WDT
- » Antenna lightning protection
- » SIM/UIIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection

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