

Ricon Mobile



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 Controller (RMSC) 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 Model & Specification







S9922MC-LTE



- LTE/3.5G support, 2.5G/3G compatibility
- 1 x 10/100Base Ethernet LAN interface
- 1 x 10/100Base Ethernet LAN/WAN interface
- 1 x RS232/RS485 interface (optional)
- 1 x SIM slot
- Single GSM module
- VLAN support (LINK TAG/UNTAG)
- LTE+/LTE/DC-HSPA/HSDPA+/HSDPA/WCDMA/2G
- WEB user interface UI/CLI/SNMP/Telnet/SSH
- RMSC
- Component-level industrial design
- 2x2 LTE MIMO SMA antenna
- 2 x 802.11b/g/n Wi-Fi antenna
- 802.11b/g/n Wi-Fi
- MODBUS-TCP protocol support

S9922MC-LTE Router Specification

Interface 	Indicator 
<ul style="list-style-type: none"> » LAN : 1 x 10/100BaseT(MDI-X) » RS232 / RS485 : 1 x 5 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 	<ul style="list-style-type: none"> » LTE : RF indicator » POWER : Power status » WLAN : Wireless LAN connection » WAN : WAN cable connection status
Power Specification 	Mechanics 
<ul style="list-style-type: none"> » On Idle : 80mA + 12VDC » Single Module Power Consumption : <5W » Power Feed : 5 - 35VDC 	<ul style="list-style-type: none"> » Dimension : 75mm x 60mm x 28mm » Weight : 190 gr. » Industrial aluminum alloy metal housing » IP54 case

S9922MC-LTE Industrial Router

Cellular Network

- » EDGE/GPRS
- » Ethernet Standards: IEEE 802.3, IEEE 802.3U
- » FDD-LTE/TDD-LTE
- » WCDMA/UMTS/HSPA/HSPA+/CDMA2000 EVDO/CDMA

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

Temperature Recognition

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

VPN

- » IPSec
- » PPTP/L2TP client
- » GRE/EoGRE
- » OpenVPN, DMVPN
- » EoIP

Device Management

- » Local or remote web browser
- » CLI/Telnet command
- » RMSC
- » SSH config
- » Wi-Fi

Firewall & Filtering

- » IP packet/Domain/MAC filter
- » NAT
- » DMZ
- » VPN pass through
- » Stateful firewall

Hardware Feature

- » CPU : Arm Cortex Dual Core
- » SDRAM : DDR2 256 MB
- » Flash : 64MB

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

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

Maintenance Operation

- » Local/remote firmware and patch upgrade support
- » Backup, import configuration
- » Easy to debug local/remote system log
- » RMSC support

Secure Data Transmission

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

RMSC

- » Excellent monitor feature
- » IPFix support
- » SLA based live alarm control
- » Bulk remote configuration
- » Remote configuration with timer
- » Remote terminal management maintenance
- » Display of GIS device location (optional)
- » Remote debugging
- » Flow static and analysis
- » Automatic installation (RiconApps)

Industrial Design

- » Aluminum alloy outer housing, IP54 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

Supported Network Protocols

- » 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 up to 300Mbps
- » VPDN
- » 802.11b/g/n Wi-Fi
- » Supports DNS proxy and dynamic DNS (DDNS)
- » APN
- » DHCP client

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