Ricon Mobile

S9922MC2-LTE

4.5G Industrial Router Datasheet

Efficiency Through Innovative Technology

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Product Overview

S9922MC2-LTE Industrial Router

RICON S9922MC2-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 S9922MC2-LTE router provides maximum service to customers while Zero Touch-SMS installation minimizes the need for field service with easy and automatic product installation service. S9922MC2-LTE Router, Single Module Single SIM hardware type. The best throughput value of the S9922MC2-LTE Router is 200 Mbps. The unique feature of the S9922MC2-LTE Router is that it is online and redundant over the network between WAN, WLAN, 3G/LTE network. This feature allows the S9922MC2-LTE to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Mobile S9922MC2-LTE 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%.

S9922MC2-LTE Model & Specification

S9922MC2-LTE

- LTE/3.5G support, 2.5G/3G compatibility
- 2 x 10/100TBase Ethernet LAN interface
- 1 x 10/100TBase 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, SNMP
- 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

S9922MC2-LTE Router Specification

Interface

LAN	: 2 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

Indicator

LTE	: RF indicator
POWER	: Power status
WLAN	: Wireless LAN connection
WAN	: WAN connection status
LAN	: LAN connection status

Power Specification

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

Dimemsion

Dimension	: 75mm x 60mm x 28mm
Weight	: 190 gr.
Industrial aluminum alloy metal housing	
IP54 case	

S9922MC2-LTE Industrial Router

Specification

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 (optional)
- IEEE 802.11b/g/n (ac optional)
- AP Client, station, bridge mode support
- WEP, WPA and WPA2 encryption

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
- Support feature customize with API

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

Industry Canada Industrie Canada
Canada
PTCRB

CE FC UL E57 RoHS

S9922MC2-LTE Industrial Router

Functional Features

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
- Encryption support
- Smart switch support when using multiple servers

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
- OSPF, RIP, BGP support
- QoS (Quality of Service) protocol

RMSC Ricon Management System

- Excellent monitor feature
- Data flow detail
- Instant statistic 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 GPS device location
- Remote debugging
- Flow static and analysis
- Automatic installation (ZTP-RF)
- APN, DHCP Client

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

Multiple Links Connection Insurance

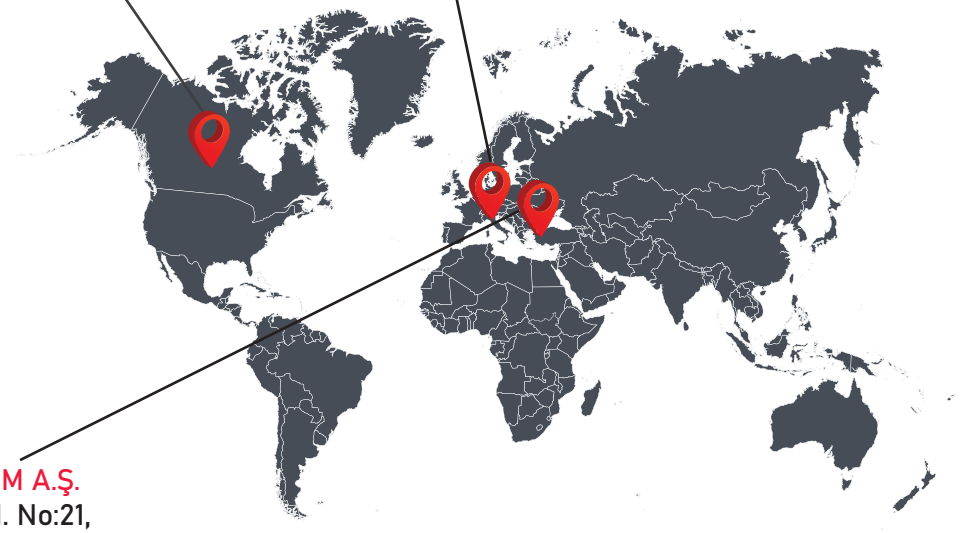
- Wi-Fi Access Point for SME and End User
- Industrial type CAT4 / CAT6 (Optional) GSM module
- Using a wireless router with 3G / 4.5G mobile network
- ModBus TCP Protocol support with RS232 / RS485 Interface
- Backup between 4.5G mobile network and wireless WAN
- Remote management with SNMP or RMSC and setup

CONTACT

RICON GLOBAL OFFICES

RICON MOBILE INC. (HQ)
1100 Burloak Drive,
Suite 300
Burlington, Ontario
L7L 6B2
riconrequest@riconmobile.com
Phone: +1 905 921 31 22

RICON ITALY
Via Tiziano Nr. 32 20145 Milano (MI)
ITALY
www.riconmobile.com/it
riconitaly@riconmobile.com
Phone: +39 335 5444061



RICON ILETISIM A.Ş.
Ahi Evran Cad. No:21,
Polaris Plaza Kat:6-8
Maslak / Istanbul / Türkiye
Phone: +90-212-346-2600