

Ricon Mobile

S9922i



Industrial Router  
Datasheet

Efficiency Through Innovative Technology

## S9922i



The S9922i is a powerful fixed interface router which provides 100% industrial structure. S9922i also serves an on board IoT interface with a capacity of ;

- 1 x RS232 (Optional RS485) serial port
- 4 x GPI/O port
- 2 x Switchable I/O for switch-mode power control

The S9922i series are stable and rough routers that offer high performance functionality for small size networks with low cost and high efficiency.

Ricon Mobile S9922i routers are easy to deploy, configure and customize which reduce cost of deployment and maintenance, while offering maximum value to customers.

## S9922i Models & Quick Specifications



### S9922i-3G S9922i-LTE



- 4 x 10/100TBase Ethernet LAN Interface
- 1 x 10/100TBase Ethernet WAN Interface
- 2 x SIM Slots (Passive Backup)
- Single GSM Module
- LTE+/LTE/DC-HSPA+/HSPA+/HSPA/WCDMA/2G
- RS232 Serial Port (Optional RS485)
- 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



### S9922i-3G/D S9922i-LTE/D



- 4 x 10/100TBase Ethernet LAN Interface
- 1 x 10/100TBase Ethernet WAN Interface
- 2 x SIM Slots (Passive Backup)
- Dual GSM Module
- LTE+/LTE/DC-HSPA+/HSPA+/HSPA/WCDMA/2G
- RS232 Serial Port (Optional RS485)
- 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



### S9922i-3G/ac S9922i-LTE/ac



- 4 x 10/100TBase Ethernet LAN Interface
- 1 x 10/100TBase Ethernet WAN Interface
- 2 x SIM Slots (Passive Backup)
- Dual GSM Module
- LTE+/LTE/DC-HSPA+/HSPA+/HSPA/WCDMA/2G
- RS232 Serial Port (Optional RS485)
- 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

## S9922i

### Cellular Networks

- » EDGE/GPRS
- » FDD-LTE/TDD-LTE
- » 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

### Interfaces

- » 4 x 10/100BaseT LAN Interface (MDI-X)
- » 1 x 10/100BaseT WAN 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 TF Card Interface
- » 1 x DC Power socket
- » 1 x Terminal Row (With Connections Below:)
- » 4 x GPIO \* 2 Interface
- » 1 x RS232/485 Interface

### 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 - 36VDC

### Physical Specs

- » Dimensions : 195.1mm x 112.1mm x 26.1mm (including antenna)
- » Weight : 510 gr.
- » Industrial Alloy Metal Housing

### 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



## S9922i



### 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

### Routing Protocols

- » Statik route
- » RIPv2 / OSPF dynamic route

## S9922i



### 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

- » Support local /remote firmware and patch upgrade
- » Support parameter backup and import, Support encryption
- » Support CFE firmware upgrade (Never about crash when doing upgrade )
- » Support Console port maintenance
- » Support smart switch when using multiple server
- » Local/Remote log for easy debugn

### 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

- » Great monitor capability
- » Remote terminal management maintenance
- » Check status of internet at any time
- » GIS showing device location
- » Debug remotely
- » Flow static and analyze

### 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 5-36V)
- » Support WDT
- » DTU RS232/RS485 data transmission
- » Antenna lightning protection
- » RS232/RS485/RS422 port: 15KV ESD protection
- » SIM/UIIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection

# CONTACT

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