

Ricon

S9924i-LTE



# Industrial Router Datasheet

Efficiency Through Innovative Technology

## S9924i-LTE Industrial Router

**RICON S9924i-LTE 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 S9924i-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. S9924i-LTE Router, Single Module Single SIM hardware type. The best throughput value of the S9924i-LTE Router is 200 Mbps.

Mobile S9924i-LTE 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%.

### S9924i-LTE Models & Quick Specifications



S9924i-LTE



- 4 x LAN Interface (Gigabit)
- 1 x WAN Interface (Gigabit)
- 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, RMSC
- 1 x RS232 (RS485 optional)
- Component-level Industrial Design
- 2x2 LTE MIMO SMA Antenna
- 802.11b/g/n Wi-Fi

### S9924i-LTE Router Specifications

#### Interfaces



- » 4 x LAN Interface (Gigabit)
- » 1 x WAN Interface (Gigabit)
- » 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
- » 1 x RS232 (RS485 optional)

#### 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 : 178mm x 105mm x 28mm (except antenna)
- » Weight : 464 gr.
- » Industrial Alloy Metal Housing

## S9924i-LTE 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



## Routing Protocols

- » Statik 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

- » 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 5-35V)
- » Support WDT
- » Antenna lightning protection
- » SIM/UIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection



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