

Ricon Mobile

S9922M4

3G/4.5G Industrial Router Datasheet



Efficiency Through Innovative Technology

S9922M4-3G/4.5G Industrial Router



The RICON S9922M4 router is industrial at 100% component level. It is a configurable router that can be customized according to customer requirements, offering low cost, high efficiency and high performance functionality for small size networks.

Ricon Mobile S9922M4 router provides maximum service to customers while Zero touch-SMS installation minimizes the need for field service with easy and automatic product installation service.

The Ricon Mobile S9922M4 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%.

S9922M4 Models & Quick Specifications



S9922M4-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
- 2 x 802.11b/g/n Antenna,
- 802.11b/g/n Wi-Fi

S9922M4 Router Specifications

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

S9922M4-3G/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



S9922M4-3G/4.5G Industrial Router

Routing Protocols

- » Statik route
- » RIPv2 / OSPF
- » 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-SCDMA, 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 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 capability
- » Data flow detail
- » Instant statistics
- » Adjustable SLA Levels
- » SLA based live alarm control
- » Bulk remote configuration
- » Timed remote configuration
- » Remote terminal management maintenance
- » Checking the status of the Internet at any time
- » Display of the GIS device location
- » Remote debugging
- » Flow static and analysis
- » Automatic installation

EMC4 Industrial Design

- » 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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