

Ricon Mobile

S9922M4E

4.5G Industrial Router

Datasheet



Efficiency Through Innovative Technology

S9922M4E 4.5G Industrial Router

RICON S9922M4E device provides high efficiency and performance in internet and remote office connections with its 2 GSM module support and Active / Active redundancy feature. In addition to CLI support, central management platform, RMSC (Ricon Management System Controller), remote installation and management of devices It is a small size and low cost industrial router.

S9922M4E Router Model & Specification



S9922M4E-LTE



- 4 x 100M Ethernet LAN Interface
- 4 x 1000M Ethernet LAN Interface (Optional)
- 1 x 10/100/1000TBase Ethernet WAN Interface
- 2 x SIM, 1 x GSM Module, Active/Passive connection
- Optional Second GSM Module Support, Active/Active connection
- LTE Cat4, (Cat6, Cat12 Optional) Carrier Aggregation
- 4.5G LTE+/LTE/DC-HSPA+/HSDPA+/HSDPA/WCDMA/2G
- WEB/CLI/SNMP/Telnet/SSH
- 2 x 802.11b/g/n Anteni, 2 x LTE MIMO SMA Anteni
- 802.11b/g/n Wi-Fi, Optional 802.11ac 5.8GHz Wi-Fi
- 1 x RS232, Optional 1 x RS485
- Layer2 EoGRE, EoGRE IPv4, VLAN Desteği
- DHCP Server/Relay Support Option 40, 62, 82

S9922M4E Router Specifications

Interfaces



- » LAN : 4 x 100 Mbps
- » Optional LAN : 4 x 1000 Mbps
- » WAN : 1 x 10/100/1000T
- » SMA-K Antenna(MIMO) : 2
- » Reset Switch : 1
- » DC Power Socket : 1
- » RS232 / RS485(optional) : 1

Indicators



- » POWER : Power indicator
- » SYS : System Status
- » RF1 : SIM 1 Active Status
- » RF2 : SIM 2 Active Status
- » Wi-Fi : Wireless LAN Connection
- » WAN : Wide Area Network Cable Connection Status

Power Specifications



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

Dimension



- » Dimensions : 140mm x 100mm x 40mm (without antenna)
- » Weight : 320 gr
- » Component Level Industrial Design
- » DIN Rail Mounting

Cellular Networks



- » EDGE/GPRS
- » LTE-TDD B38/B40/B41 bands
- » LTE-FDD B1/B3/B5/B7/B8/B20 bands
- » (3G)WCDMA/UMTS/HSPA/HSPA+CDMA2000 EVDO/CDMA
- » Ethernet standards IEEE 802.3, IEEE 802.3U
- » Optional GPS Module Support

Wi-Fi



- » Standard: IEEE 802.11b/g/n (Optional 802.11ac)
- » AP, Client, Station, Bridge Mode Support
- » WEP, WPA and WPA2 encryption, AES-TKIP
- » Channel manipulation support
- » 20MHz/40MHz Beamer Support

Environment Parameters

- » Operation Temp. : 20°C~+70°C
- » Shelf Temp : -40°C~+85°C
- » Related humidity : <95 (noncondensing)

VPN

- » PPTP/L2TP client
- » GRE/IPIP, IPSec,
- » EoGRE, EoGRE IPv4
- » Open VPN

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Device Management

- » Local or remote web browser (IE v8 or above)
- » CLI/Telnet command
- » SSH config (optional)
- » Standard: IEEE 802.11b/g/n
- » AP, Client, Station, Bridge Mode Support
- » WEP, WPA and WPA2 encryption

Multiple Links Connection Insurance

- » 2 x SIM, 1 x GSM Module, Active/Passive Connection
- » Optional Second GSM Module Support, Active/Active Connection

Firewall & Filtering

- » IP packet/Domain/MAC Filter
- » NAT
- » DMZ

Feature

- » CPU: 580MHz
- » SDRAM: DDR2 256 MB
- » Flash: 128 Mb

Routing Protocols

- » Static route
- » RIPV2/OSPF
- » VRRP
- » Policy route
- » BGP

Maintenance Operation

- » Local / remote firmware and patch upgrade support
- » Parameter backup, import and encryption support
- » Firmware update support
- » Easy to debug local / remote system log

Multiple Working Modes

- » LED monitor
- » Internal Storage
- » WEB, CLI, SSH, multiple parameter management
- » Data trigger online/offline
- » LCP/ICMP/flow/heartbeat check, ensure network usability

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
- » Layer2 EoGRE, EoGRE IPv4 VLAN support

Network Connection Features

- » 4G (TD-LTE / FDD LTE), DS-HSPA +, HSPA +, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, KENAR / GPRS
- » WAN, WLAN, SIM1/SIM2 Multiple way network
- » WLAN AP/Station/Repeater, 802.11n at most 300Mbps
- » 4 LAN Port
- » WAN Support PPPoE, Static IP,
- » DHCP Server/Relay Support Option 40, 62, 82
- » Support VPDN, APN private network
- » 802.11b/g/n (ac optional) Wi-Fi, WPS key
- » Supports DNS Proxy and Dynamic DNS (DDNS)

EMC4 Industrial Design

- » Aluminum alloy outer housing, IP64 protection
- » System security isolation, Particularly suitable for the application of industrial control field
- » Wide working power (DC 5-35V)
- » SIM/UIIM port: 15KV ESD protection
- » Power port: reverse-voltage and overvoltage protection
- » Ethernet port: 1.5KV magnetic isolation protection
- » DIN Rail Mounting kit

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



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