Ricon Mobile

S9922M2E

4.5G Industrial Router Datasheet

Efficiency Through Innovative Technology

RICON MOBILE INC.
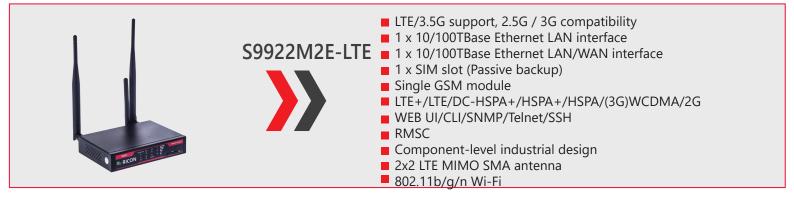
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S9922M2E-LTE Industrial Router

RICON S9922M2E-LTE Router by Ricon Mobile Inc. industrial grade quality, designed and manufactured in accordance with 3G/LTE cellular network technology. With embedded cellular module, it is widely used in many cases such as ATM connection, remote office security connection, data collection etc.

Ricon Mobile S9922M2E-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. S9922M2E Router, Single Module Single SIM hardware type. The best throughput value of the S9922M2E Router is 200 Mbps. The unique feature of the S9922M2E-LTE Router is that it is online and redundant over the network between WAN, WLAN, 3G/LTE network. This feature allows the S9922M2E to provide maximum network availability and reduce the likelihood of network failure to prevent losses due to network failures.

Mobile S9922M2E-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%.

S9922M2E-LTE Model & Specification

S9922M2E-LTE

- LTE/3.5G support, 2.5G / 3G compatibility
- 1 x 10/100TBase Ethernet LAN interface
- 1 x 10/100TBase Ethernet LAN/WAN interface
- 1 x SIM slot (Passive backup)
- Single GSM module
- LTE+/LTE/DC-HSPA+/HSPA+/HSPA/(3G)WCDMA/2G
- WEB UI/CLI/SNMP/Telnet/SSH
- RMSC
- Component-level industrial design
- 2x2 LTE MIMO SMA antenna
- 802.11b/g/n Wi-Fi

S9922M2E-LTE Router Specification

Interface

» LAN	: 1 x 10/100 BaseT
» LAN/WAN	: 1 x 10/100 BaseT
» SMA-K (LTE MIMO)	: 2 x LTE/3G/2G
» SIM / R-UIM	: 1 x USIM slot
» Reset Switch	: 1
» WPS Switch	: 1
» DC Power Socket	: 1

Indicator

» LTE	: RF indicator
» POWER	: Power indicator
» WLAN	: Wireless LAN connection
» WAN	: WAN cable connection status
» NET	: Network established

Power Specification

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

Mechanics

» Dimension	: 135mm x 101mm x 127mm
» Weight	: 300 gr.
» Industrial aluminum alloy metal housing	
» IP54 safe	

S9922M2E-LTE Industrial Router

Cellular Network

» EDGE/GPRS
» 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 (optional)
» SSID isolation support
» Channel manipulation support
» 20Mhz/40Mhz beamer support
» Dual mesh radio application with 802.11ac

Temperature Recognition

» Operation Temp.   : -40°C ~+ 75°C
» Shelf Temp   : -40°C~+85°C
» Related humidity   : %95 (noncondensing)

VPN

» IPSec
» PPTP/L2TP client
» GRE/EoGRE
» OpenVPN/DMVPN

Device Management

» Local or remote web browser
» CLI/Telnet command
» RMSC
» SSH config

Connection

» 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
» Special design resistant to vibration produced in standards suitable for in-vehicle use.

Firewall & Filtering

» IP packet/Domain/MAC filter
» NAT
» DMZ
» VPN pass through
» Stateful firewall

Hardware Features

» Support feature customize with API
» CPU   : 580MHz
» SDRAM: DDR2 256 MB
» Flash   : 64 MB

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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PTCRB

C E FC E57 RoHS

UL Certified Power Supply

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Routing Protocols

» Static route
» RIPv2/OSPF dynamic route
» VRRP
» BGP

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

Secure Data Transmission

» 1024 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
» QoS（Quality of Service）protocol

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

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

RMSC (Ricon Management System Controller)

» Excellent monitor feature
» IPFix support
» SLA based live alarm control
» Bulk remote configuration
» Remote configuration with timer
» Remote terminal management maintenance
» Display of GIS device location (optional)
» Remote debugging
» Flow static and analysis
» Automatic installation (RiconApps)

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）
» 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

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 MOBILE INC. , LTD.
F5-Building 3,
FengMenAo Industrial Park,
Bantian Streets, Longgang District
Shenzen, 51829, China

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