Ricon Mobile

S9922L-LTE

Industrial Router Datasheet

Efficiency Through Innovative Technology

RICON

S9922L-LTE 4.5G Industrial Router

RICON S9922L-LTE router is a mobile network router designed based on 2G/4G/4.5G, WiFi and VPN technologies. It is equipped with a powerful 64-bit Processor and real-time operating system specially developed by Ricon Mobile. It can easily connect any network device connected via interface connections such as Ethernet and WiFi, transparently, via the mobile network, to the Internet or to a central local network in a simple configuration.

Ricon S9922L-LTE Mobile router, while providing maximum service to customers, Zero-touch setup with the SMS has been reduced to a minimum the field service needs with easy and automatic product installation services. S9922L-LTE router is of Single Module Single SIM hardware type. The best throughput of the S9922L-LTE Router is 100 Mbps. Its unique feature is that it is online and redundant across the network between WAN, WLAN, LTE network. This feature allows the S9922L-LTE to provide maximum network availability and reduce the possibility of network failure to prevent losses from network errors.

Ricon Mobile S9922L-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%.

S9922L-LTE Models & Quick Specifications

S9922L-LTE

- LTE support, 2G/3G compatibility
- Interface: 2 x LAN (1 x LAN/WAN Combo)
- 1 x SIM Slots (Passive Backup)
- Single GSM Module
- LTE+/LTE/DC-HSPA+/HSDPA+/HSDPA/WCDMA/2G
- WEB User Interface/CLI/SNMP/Telnet/SSH
- Ricon Management System (RMS)
- Component Level Industrial Design
- 2x2 LTE MIMO SMA Antenna
- 802.11b/g/n Wi-Fi

S9922L-LTE Router Features

Interfaces

» LAN	: 2x10/100 Mbps
» LAN/WAN Combo (Optional)	: 1
» Console	: 1
» SMA-K antenna	: 2
» SMA-K antenna (Wi-Fi)	: 1
» Standard SIM/R-UIM	: 1
» Standard DC Power Input	: 1

Indicators

» 4G1	: RF Indicator
» SIG1	: GSM Module 1 Signal Attachment
» DATA	: Connection Setup
» 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

- » Idle: 80mA + 12VDC
- » Single Module Power Consumption: <5W
- » Power Supply: 5 - 36VDC

Physical Specs

- » Dimensions: 136 mm x 99 mm x 28 mm
- » Weight: 395g
- » Industrial Alloy Metal Body

S9922L-LTE 4.5G Industrial Router

Cellular Networks

» EDGE/GPRS
» Ethernet Standard
» FDD-LTE/TDD-LTE
» WCDMA/UMTS/HSPA/HSPA+ CDMA2000 EVDO/CDMA 1x
» 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 manuplation support
» 20Mhz/40Mhz beamer support
» Dual Mesh Radio Application with 802.11ac

Temperature Recognition

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

VPN

» IPSec
» PPTP/L2TP client
» GRE/IPIP

Device Management

» Local or remote web browser (IE v8 or higher)
» CLI/Telnet command
» Ricon Management System (RMS) (optional)
» SSH configuration (optional)
» Standard: IEEE 802.11b/g/n (optional ac)
» AP, Client, station, bridge mode support
» WEP, WPA and WPA2 encryption

Software Functions (Special)

» 5651 Log in applications for Wi-fi/LAN client logs of all connections, sends to a central database in real time.

Firewall & Filtering

» IP packet/Domain/MAC Filters
» NAT
» DMZ

Other

» OpenWrt support
» Easy integration with the API
» CPU: 580MHz
» SDRAM: DDR2 256MB
» Flash: 128 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

Industry Canada / Industrie Canada
Canada
PTCRB
CE FC UL E57 RoHS

S9922L-LTE 4.5G Industrial Router

Multiple Working Modes

» LED monitor
» 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 debug

Network

» 4G(TD-LTE/FDD LTE), DC-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
» 1 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

» 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 GPS 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 5-36V）
» 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

Routing Protocols

» Static Routing
» RIPv2/OSPF Dynamic Routing
» VRRP (Hardware Backup)

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