

Ricon Mobile

S9922XL-LTE



Industrial Router Datasheet

Efficiency Through Innovative Technology

RICON MOBILE INC.



S9922XL-LTE 4.5G Industrial Router



RICON S9922XL Router by Ricon Mobile Inc. Industrial grade quality, designed and manufactured in accordance with LTE cellular network technology. With embedded cellular module, it is widely used in many cases such as ATM, secure remote office, data collection like connectivity.

Ricon Mobile S9922XL router provides maximum service to customers while RiconApps PnP Zero touch installation option, minimize the need for field service with easy and automatic product installation services. S9922XL Router consists of Single GSM Module with Dual-SIM hardware type. The throughput value of the S9922XL Router is up to 200Mbps. One of the unique features of the S9922XL Router is that it is online and redundant over the network between WAN, WLAN, and LTE network. This feature allows the S9922XL to provide maximum network availability and reduce the network failures to prevent data losses.

Mobile S9922XL routers are web-based and easily configurable through CLI. In addition, 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 same network environment on a web based environment with full control.

S9922XL-LTE Models & Specifications



S9922XL-LTE



- 4 x 10/100TBase Ethernet LAN Interface
- 1 x 10/100TBase Ethernet WAN Interface
- 2 x SIM Slots (Active/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 Controller (RMSC)
- 1 x RJ45 Console Interface
- 2x2 LTE MIMO SMA Antenna
- 802.11b/g/n Wi-Fi

S9922XL Router Quick Specifications

Interfaces



- » LAN :4x10/100Mb
- » WAN :1x10/100Mb
- » Console :1
- » SMA-K antenna :2
- » SMA-K antenna (Wi-Fi) :1
- » SIM/R-UIM :2
- » Standart DC Power Socket :1
- » RS232/RS485 (Configurable) Serial Port for alarms and DTU

Indicators



- » RF1 :RF Indicator for SIM1 Slot
- » RF2 :RF Indicator for SIM2 Slot
- » RUN :System O/S Health
- » WIFI :Wireless LAN Connection
- » WAN :Wide Area Network Cable Connection Status
- » LAN :Local Area Cable Connection Status (Lan1 ~ Lan4)
- » POWER :Power indicator

Power



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

Environment Parameters



- » Dimensions :186 mm x 121 mm x 2 mm
- » Weight :550g
- » Industrial Alloy Metal Body

S9922XL-LTE 4.5G Industrial Router

Cellular Networks

- » EDGE/GPRS
- » FDD-LTE/TDD-(4.5G)LTE
- » (3G)WCDMA/UMTS/HSPA/HSPA+ CDMA2000 EVDO/CDMA
- » LTE-FDD: B1/B3/B5/B7/B8/B20
- » LTE-TDD: B38/B40/B41
- » WCDMA: B1/B5/B8
- » GSM/EDGE: B3/B8

Wi-Fi

- » Standard: IEEE 802.11b/g/n
- » AP, Client, Station, Bridge Mode, WAN Mode
- » WEP, WPA and WPA2 encryption w/AES-TKIP
- » SSID Isolation Support
- » Channel manipulation support
- » 20Mhz/40Mhz beamer support

Temperature Values

- » Operation Temp. : -40°C - + 75°C
- » Store Temp. : -40°C ~ + 85°C
- » Related humidity : <95 (non-condensing)

VPN

- » IPSec
- » PPTP/L2TP client
- » GRE/IPIP
- » OpenVPN
- » ETHoGRE

Device Management

- » Local or remote via Web UI (IE v8 or above)
- » CLI/Telnet command line
- » RMSC Ricon Management System Controller (optional)
- » SSH
- » SNMPv2, SNMPv2c, SNMP
- » SMS
- » Automatic M2M Inventory Management

Failover

- » Dual SIM single module for cold backup
- » Single SIM/EWAN active/active backup, load balancing
- » LTE(4.5G) failover to DC-HSPA+/HSPA+/HSPA (3.5G)
- » LTE(4.5G) failover to WCDMA (3G)
- » WCDMA (3G) failover to EDGE/GPRS (2.5G/2G)

Firewall & Filtering

- » IP packet/Domain/MAC Filter
- » NAT/NAPT/PAT
- » DMZ
- » Port Forwarding
- » Port Triggering
- » Stateful Firewall

Hardware Features

- » CPU : ARM Cortex Hexa Core
- » SDRAM : DDR2 512 MB
- » Flash : 128MB
- » TF Card : Up To 64MB
- » Flash 2 v.4.3.0.5.5: Second failover Flash for firmware and configuration backup support

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



S9922XL-LTE 4.5G Industrial Router

Integration & Compliance

- » Data API
- » RiconApps Installation Application
- » SNMP MIBs (Customized)
- » Data trigger online/offline
- » RiconApps CLI Tools

Ultra Secure Data Transmission

- » VPN support GRE/L2TP/PPTP/IPSec/OpenVPN
- » GRE over IPSec, IPSec over PPTP/L2TP
- » Supports DHCP Server, Client and Relay
- » SNMP network management, NTP, GSM clock support
- » OSPF, RIP, BGP over encrypted tunnel modes
- » QoS (Quality of Service) with DSCP smart control base on protocol, application, IP subnet

Easy Maintenance Operation

- » Local / remote firmware and patch upgrade support
- » Parameter backup, config import and encryption support
- » FOTA firmware update support
- » Smart switch support when using multiple servers
- » Easy to debug local / remote system logs
- » DHCP client access logs (local/remote)
- » Live Bandwidth Graphic on WEB UI
- » Automatic Inventory/RMA database updates (On the Air)
- » Status check via SMS

Network Connection Features

- » 4G(TD-LTE/FDD LTE), DS-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, EDGE/GPRS
- » WAN, WLAN, SIM1\SIM2 multiple WAN network connectivity
- » WLAN AP/station/repeater, 802.11n, with up-to 300Mbps speed
- » EWAN support for xDSL(PPPoE), static IP, DHCP client or WiFi
- » Support for corporate APN private network
- » 802.11b/g/n Wi-Fi LAN / WAN modes
- » Supports DNS proxy and Dynamic DNS (DDNS)

RMS Ricon Management Controller

- » Excellent monitoring features
- » Data flow details per WAN Interface
- » Instant statistics data for all environment
- » Adjustable SLA Levels
- » SLA based live alarm control thresholds
- » Bulk remote configuration
- » Remote configuration with scheduler
- » Remote terminal management maintenance for firmware
- » Live configuration comparison on the air
- » Display of GPS device location (optional with GPS add-on)
- » Remote debugging and troubleshooting tools
- » Flow statistics and analysis
- » Automatic installation and configuration standardization

EMC4 Industrial Design

- » Aluminum alloy enclosure, IP54 protection
- » System security isolation, Particularly suitable for the application of industrial control fields (Rugged)
- » Wide power range (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
- » System security isolation for industrial control

Routing Protocols

- » Static Routing (w/ Policy based source routing)
- » RIP / OSPF / MPLS dynamic routing
- » VRRP (Hardware Failover)
- » BGP/M-BGP

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