

## S9934-LTE OUT



**The RICON S9934-LTE OUT Router** by Ricon is an industrial-grade device designed and manufactured according to 3G/LTE cellular network technology standards. Equipped with an embedded cellular module, it is widely used in applications such as ATM connectivity, remote office security connections, data collection, and more.

**The S9934-LTE OUT Router** provides customers with maximum service efficiency, while its Zero Touch SMS installation feature minimizes the need for field service by enabling easy and automatic product installation. The S9934-LTE OUT is a single-module, single-SIM hardware device. It offers a maximum data transfer rate of 200 Mbps.

**Thanks to its special design for outdoor use**, the S9934-LTE OUT operates reliably in harsh environmental conditions. Its ability to operate online with redundancy over WAN, Wi-Fi, and 3G/LTE networks significantly reduces the risk of network failure and ensures maximum network availability. This helps prevent potential losses caused by connection interruptions.

## Features

- LTE / 4G / 3G support
- Dual SIM / Multi-SIM
- Failover/Failback
- IPSec VPN
- OpenVPN
- L2TP / PPTP
- GRE Tunneling
- DMVPN
- Firewall
- MAC / IP Filtering
- DoS/DDoS Protection
- HTTPS / SSH Access
- Static & Dynamic Routing
- BGP
- OSPF / RIP
- VLAN
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- Syslog / Event Log
- OTA Firmware Update
- SMS Command
- Cloud Management Platform
- Wi-Fi 4
- WPA2
- MAC Filtering
- Connection timers
- Ping / Uptime Watchdog
- Automation with SMS
- Task definition with script
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

## Technical specifications

### Dimensions and weight

- Height: 75mm
- Width: 60mm
- Depth: 28mm
- Weight: 190gr
- Industrial aluminum metal body
- IP30 protection

### Environmental

- Operating Temperature: -30°C~+70°C
- Storage Temperature: -40°C~+85°C
- Humidity <95%

### Certified

- **ATEX Zone 1 & 21 Certified** II 2G Ex db IIB T6 Gb / II 2D Ex tb IIIC T85°C Db (No: ICR/VC/HM2512206)

## General Specifications

CPU	MT7628AN
Memory	128MB
HW Watchdog	Connection schedulers Ping / Uptime Watchdog SMS automation Scripting tasks
SPI Flash	16MB

## Interfaces and Configuration

LAN	2 x 10/100BaseT(MDI-X)
WAN	1x10/100 Mb
DHCP Server	DHCP Server/Client/Relay, DNS

## Cellular Specifications

Cellular Modem Module	EC200A-EU
Module Type	PCIE
Region	Global
Chipset	UNISOC 8910DM
Category	LTE: Cat.4
Cellular Bands (SDX62)	LTE-FDD B1/ 3/ 5/ 7/ 8/ 20/ 28 LTE-TDD B38/ 40/ 41 WCDMA B1/ 5/ 8 GSM 900/1800 MHz
SIM Support	1 x U-SIM Slot

## Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection
Filters	Access restriction Restricting wireless access
Misc	Security logging Security alarms Packet capture logging (Dump to file pcap)

## GNSS / GPS Features (Optional)

Chipset	ATGM336D
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 Galileo: E1, E5a BDS: B1I, B2a
Default Constellations	GPS + GLONASS + Galileo + BDS + QZSS
Number of Concurrent GNSS	4 + QZSS
Protocols	OSPF Routing protocols RIP Routing protocols WPA2 Wi-Fi encryption protocols Industrial data communication protocols
SBAS	WAAS, EGNOS, MSAS and GAGAN

## Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform
Version Management	Image Checksum Active version and backup version Auto rollback feature when remote upgrade fails
Accounts Management	Integrated Admin/Guest accounting TACACS/TACACS+, Radius Auth. models
Retrievable Parameters WEB UI / CLI / TR-069 / SNMP	CLI Command-line access SNMP Remote monitoring and management Web-based graphical interface management

## Cellular Modem Features

APN Data Services	Dynamic APN support SIM PIN management Bridge Mode Support
Modem Interface Configuration	Full band-scan Modem Band-Lock Auto/On-Demand dial Enable/Disable Radio Pppd and DHCP dialing options
Modem Failover	Support fail-over on interface drop. Support fail-over on traffic flow interruptions Support Automatic connection recovery.

## Wi-Fi

### Chipset

MT7628AN

### Wi-Fi Specifications

Wi-Fi Radio : 1x1 MIMO / 20/40 MHz  
 Frequency Band : 2.4 GHz only  
 Client Capacity : Up to ~32 concurrent clients (depends on firmware/device)  
 Wi-Fi Standard (2.4 GHz) : IEEE 802.11 b/g/n  
 MIMO Configuration : 1x1  
 Channel Bandwidth : 20/40 MHz  
 Modulation : BPSK, QPSK, 16-QAM, 64-QAM  
 Tx Output Frequency Range : 2400–2483.5 MHz  
 Maximum Data Rate : Up to 150 Mbps (with 40 MHz channel)  
 Security Protocols : WEP, WPA, WPA2 (AES/TKIP)  
 Total Wi-Fi Throughput : Up to ~150 Mbps (ideal conditions, 802.11n, 40 MHz)

### Region

Global

### Wireless Security

Protocols: WEP, WPA, WPA2  
 Encryption: AES, TKIP

### Mode

Accesspoint, WiFi Client (Station) modes supported  
 \*\*MU-MIMO is supported with both modes above  
 \*\*2x2 DL MIMO is supported with both modes above

## Networking Features

Routing	Static Routing ,Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-based Routing (PBR)
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Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
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Forwarding	NAT Support Port Forwarding DMZ Support
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Load Balancing	Per-Package Forwarding Support
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## Ordering Information & Accessories

S9934-LTE OUT	CAT4 Cellular Radio Interface 1xLAN, 1xWAN Fast Ethernet, 1xSIM Slots 2.4GHz Wi-fi 802.11b/g/n
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## Defaults

Default Box Contents	1 x S9934-LTE OUT Router Hardware 1 x 3M Antennas for 4G 1 x WiFi antenna for 2.4GHz and 5GHz 1 x 1m. CAT6 Ethernet patch cable
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## About Ricon

At Ricon, we create technology that brings the communication handy.

As a 22 years B2B technology innovation company, we are designing networks that sense, think and act across mobile, fixed and cloud networks.

Service providers, enterprises and partners worldwide trust Ricon to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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