S99MC2X-LTE



© 2026 Ricon

RICON S99MC2X-LTE, is a compact router with LTE Cat.4 cellular connectivity, designed especially for in-vehicle and industrial field applications. 9–60 V DC wide supply range and IP54 protection class adapt it to different power infrastructures and harsh operating conditions. With 2 × Fast Ethernet LAN, 1 × Fast Ethernet WAN, dual SIM, RS232/RS485 serial interface and 2.4 GHz Wi-Fi support, it offers versatile connectivity options.

S99MC2X-LTE supports network continuity with dual SIM and automatic failover/failback between wired WAN connections. With Modbus TCP and MQTT protocols, it transfers data collected from field devices to central systems. With wide voltage support and serial communication capabilities, it is a suitable solution for vehicle tracking systems, industrial automation, energy monitoring and remote telemetry applications.

S99MC2X-LTE can be configured via the web interface and CLI; it can be monitored centrally and managed remotely through the Ricon Management System (RMS). With SMS-based Zero-Touch provisioning support, it simplifies the commissioning of distributed field devices and helps reduce operational costs and the need for on-site maintenance visits.

Features

- LTE / 4G / 3G Support
- Dual SIM / Multi-SIM
- Automatic Backup (Failover/Failback)
- IPSec VPN
- OpenVPN
- L2TP / PPTP
- GRE Tunneling
- DMVPN
- Firewall
- MAC / IP Filtering
- DoS/DDoS Protection
- HTTPS / SSH Access
- Static and Dynamic Routing
- BGP
- OSPF / RIP
- VLAN
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough Mode
- Policy-Based Routing (PBR) Support
- Web Interface (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- TR-069
- System Log / Event Log
- Cloud Management Platform
- Wi-Fi 4 (802.11n)
- WPA2 Security
- MAC Filtering
- Connection Timers
- Automation via SMS
- Task Definition via Script File Support
- Modbus TCP / MQTT
- Serial Port (RS232/RS485)
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Specifications

Dimensions and Weight

- Height: 98mm
- Width: 107mm
- Depth: 24mm
- Weight: 354g
- Rugged industrial aluminum metal housing
- IP54 Protection Class

Environmental Conditions

- Standby: 80mA + 12VDC
- Single Module Power: <5W
- Operating Voltage: DC 9V - 60V

Certifications

- CE

© 2026 Ricon

General Specs

Processor (CPU)	MT7628AN (Single-core MIPS24KEc, 580 MHz)
Memory	64MB
Hardware Watchdog	UNION UM706RS
SPI Flash	16MB

Interfaces and Configuration

LAN	2 x 10/100TBase Ethernet
WAN	1x10/100 Mb
DHCP Server	DHCP Server/Client/Relay, DNS

Cellular Features

Cellular Modem Module	EC200A-EU
Module Type	Mini PCIe
Region	Europe / Asia-Pacific
Chipset	ASR1803
Category	LTE:3GPP Release 9 LTE (Cat.4)
Cellular Bands	LTE-FDD B1/ 3/ 5/ 7/ 8/ 20/ 28 LTE-TDD B38/ 40/ 41 WCDMA B1/ 5/ 8 GSM / EDGE B3/ B8
SIM Support	2 x U-SIM Cards

© 2026 Ricon

Security Features

Firewall	SPI Firewall Blocks anonymous requests from the WAN port MAC Filtering, IP Filtering
Filters	Access Restrictions (IP/MAC/URL - by time period) DNS Filtering, MAC Filtering, Data Flow Filtering
Other	System log storage and forwarding Standard Linux TCPdump packet capture

GNSS / GPS Features (Optional)

Chipset	(Optional)
Supported Bands	(Optional)
Default Constellations	(Optional)
Number of Simultaneous GNSS	(Optional)
Protocols	OSPF Routing Protocols RIP Routing Protocols WPA2 Wi-Fi Encryption Protocols Industrial Data Communication Protocols
SBAS	(Optional)

Management Features

Management Interfaces	Web Interface (HTTPS) CLI (SSH / Telnet) SNMP TR-069 System Log / Event Log M2M Management Platform (Cloud Platform Protocol V2.0)
Version Management	Not supported
Account Management	Integrated Admin/Guest account management
Retrievable Parameters WEB UI / CLI / TR-069 / SNMP	CLI command-line access SNMP remote monitoring and management Web-based graphical interface management

© 2026 Ricon

Cellular Modem Features

APN Data Services	Dynamic APN Support SIM PIN Unlock
Modem Interface Configuration	SIM Slot Selection Configurable MTU size for WAN port SIM card backup function switch Automatic mode / full frequency band mode Modem frequency band lock / 4G Enable-Disable PPP and DHCP dialing options, IMS function enable/disable
Modem Backup (Failover)	Automatic backup support on interface disconnection Failover support between SIM1/SIM2 and wired network Automatic connection recovery support

Wi-Fi

Chipset	MediaTek MT7628
Wi-Fi Technical Specifications	2.4GHz Wi-Fi Support IEEE 802.11b/g/n standards Max. speed: 54 Mbps with IEEE 802.11b/g Max. speed: 150 Mbps with IEEE 802.11n (optional 300 Mbps) SISO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2 WEP, WPA, WPA2, Client Mode (AES, TKIP)
Mode	AP (Access Point) and Client modes

© 2026 Ricon

Network Features

Routing	Static Routing, Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Mode Policy-Based Routing (PBR) Support
VPN Tunnels	IPSec VPN OpenVPN L2TP PPTP SSTP GRE Tunneling DMVPN Firewall MAC / IP Filtering DoS/DDoS Protection HTTPS / SSH Access
NAT / Routing	NAT Support Port Forwarding QoS (Quality of Service)

Ordering Information and Accessories

S99MC2X-LTE	CAT4 Cellular Radio Interface (Quectel EC200A-EU) 2xLAN, 1xWAN Fast Ethernet, 2xSIM Slots 2.4GHz Wi-Fi 802.11b/g/n, 2x SIM Slots

Defaults

Default Box Contents	1 x S99MC2X-LTE Router Hardware 1 x 12VDC 1.0A 12W Power Adapter 1 x Serial connector 2 x Rack mount kit 1 x SIM ejector pin 2 x RCN-LTE-ANT-IND LTE Antennas 1 x Wi-Fi Antenna (2.4GHz) 1 x 1m. CAT5 Ethernet Patch Cable

© 2026 Ricon

About Ricon

Ricon is a B2B technology company developing network technologies for the secure, uninterrupted and sustainable communication needs of businesses. With industry experience and a technology-driven approach, it delivers connectivity, communication and management solutions for mobile, fixed and cloud networks.

Helping service providers, businesses and partners build reliable and scalable network infrastructures, Ricon supports the development of strong and sustainable communication infrastructures with solutions that adapt to changing digital needs and requirements.

© 2026 Ricon

Ricon Canada Office (HQ)	Ricon Turkey Office	Ricon Turkey Office ITU	Ricon Italy Office
5063 North Service Road Burlington Ontario L7L 5H6 Canada	Ahi Evran Cad. No: 21 Polaris Plaza Kat: 6-8 Maslak İstanbul	Reşitpaşa Mah. ITU ARI 3 Teknokent No:4-Z101 Sarıyer İstanbul	Via Gaetano Negri 8 20123 Milano Italy
riconrequest@riconmobile.com	riconturkiye@riconmobile.com	riconturkiye@riconmobile.com	riconitaly@riconmobile.com
+1 (905) 921-3122 +1 (905) 336-2450	+90 212 346 26 00	+90 212 346 26 00	+39 02 87177914