

Ricon Mobile

S9980DSL-LTE

Industrial Router/Switch
Datasheet



Efficiency with Innovative Technology

S9980DSL-LTE SWITCH/ROUTER

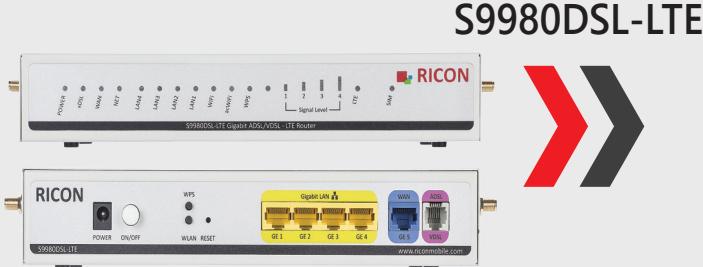
RICON S9980DSL-LTE Router is designed and manufactured by Ricon Mobile Inc., it based on fixed ADSL and VDSL chipset and 3G/4.5G(LTE) cellular network technology. With its xDSL capability and embedded cellular module, it widely used in multiple case like ATM connection, remote office security connection, data collection. etc.

This document introduced how to use S9980DSL-LTE and its powerful features. S9980DSL-LTE Router, supports tradition router functions like VPN, firewall, NAT, SNMP, DHCP. S9980-DSL/LTE supports 3G/4.5G(LTE) as WAN interface, provide up to 300Mbps downstream and 100Mbps upstream WAN bandwidth and up to 150Mbps Wi-Fi bandwidth.

S9980DSL-LTE Router comes with single port xDSL supporting ADSL/ADSL2/VDSL/VDSL2 modulations with a physical RJ11 port and single module single SIM hardware type. The unique feature of S9980DSL-LTE Router is network online & backup among WAN, WLAN, 3G/4.5G(LTE) network. S9980DSL-LTE Router supports Ricon Management System Controller (RMSC). By the management system, you can check running info of S9980DSL-LTE Router and configure the router remotely and publish remote updates.



S9980DSL-LTE Model & Specification



- 4.5G (LTE)/3G support, 2.5G/3G compatibility
- 1 x SIM Slot
- Single GSM Module
- 4 x Gigabit LAN
- 1 x Gigabit WAN
- 1 x DSL port (RJ11 input for VDSL/ADSL)
- Throughput value 400 Mbps
- IEEE802.3 Ethernet
- Supports IEEE802.11b/g/n/ac, 2.4GHz and 5.8GHz Wi-Fi bands
- RMSC
- 2 LTE MIMO RP-SMA antenna
- 802.11b/g/n Wi-Fi antenna, 802.11ac Wi-Fi antenna
- Industrial IP54 metal housing
- Rack mount kit
- Wi-Fi 5651 log support

S9980DSL-LTE Router Specification

Interface	Indicator
» LAN : 4x1000 Mbps	□□□
» ADSL/VDSL : 1X RJ-11	
» GSM LTE : 1X SIM Slot	
» SMA Antenna (MIMO) : 2	
» SMA Antenna (2.4GHz) : 2	
» SMA Antenna (optional 5.8GHz) : 2	
» DC Power Socket : 1	
» WLAN Button : 1	
» WPS Button : 1	
» Reset Button : 1	
Power	Mechanics
» Idle : 80mA + 12VDC	⚡
» Single Module Power Consumption : <7W	
	Dimension : 230 mm x 150 mm x 40 mm
	Weight : 822 gr.
	Working Temperature: -35°C~+75°C
	Relative Humidity: <95 (non-condensing)

S9980DSL-LTE SWITCH/ROUTER

Cellular Network



- » FDD-LTE: Band 1/3/7/8/20
- » WCDMA/UMTS/HSPA/HSPA+/CDMA2000 EVDO/CDMA
- » EDGE/GPRS
- » IEEE 802.3
- » IEEE 802.3U

Device Management

- » Local or remote web browser
- » CLI/Telnet command
- » RMSC (Ricon Management Controller System)
- » SSH, SSHv2
- » SNMPv1, SNMPv2, SNMPv2c, SNMPv3
- » TR-069

Maintenance Operation

- » Support local/remote firmware and patch upgrade
- » Support parameter backup and import
- » Support encryption
- » Support console port maintenance
- » Support smart switch when using multiple server
- » Local/remote log for easy debug

System Specification

- » CPU : Quad Core ARM 64 bit
- » RAM : 1 GB
- » Flash : 1 GB
- » Throughput value : 600Mbps (Routed)
- » DL (GSM) : 150 Mbps
- » UL (GSM) : 50 Mbps
- » RxDiversity support (MIMO 2x2)
- » Support IP and PPP type connection
- » PAP/CHAP authentication
- » GSM/EWAN/xDSL back up
- » VRRP (HSRP)

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



Wi-Fi



- » IEEE 802.11b/g/n/ac (866 Mbps)
- » AP, Client, station, brige mode support
- » WEP, WPA and WPA2 encryption with AES-TKIP
- » IEEE 802.11ac 5.8Ghz Wi-Fi support
- » SSID isolation support
- » Channel management support
- » Support 20MHz/40MHz/80MHz Beamer
- » 802.11ac dual mesh
- » 80 Concurrent users

VPN



- » IPSec
- » PPTP/L2TP client
- » GRE/IPIP
- » OpenVPN
- » ETHoGRE Layer2

Firewall&Filtering



- » IP Domain Filter
- » NAT
- » Port forwarding, DMZ support
- » URL filter
- » MAC filter
- » WAN access control (Access List)
- » Support PIN and PUK based SIM card security
- » Tacacs, Tacacs+

Routing Protocols

- » Static routing
- » RIPv2/OSPF
- » VRRP
- » BGP
- » Default Route Enable/Disable



UL Certified Power Supply

S9980DSL-LTE SWITCH/ROUTER

Network Connection Modes

- » 4G (TD-LTE/FDD LTE), DS-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDM, CDMA, EDGE/GPRS
- » WLAN AP/station/repeater, 802.11n/ac at most 866 Mbps,
- » 2.4 GHz ve 5.8 GHz (Optional)
- » 4 Gigabit LAN connection points (Switchport)
- » WAN support ADSL (PPPoE), static IP, DHCP
- » Support APN private network
- » 802.11b/g/n/ac Wi-Fi,
- » WPS key
- » Supports DNS proxy, Dynamic DNS (DDNS) and IPv6
- » VRRP hardware back up
- » Multi VLAN (tagged/untagged)
- » Support for IP address loop testing
- » SNMPv2, TR069
- » DHCP server, DHCP Relay, DHCP Option

Software Specification

- » Easy control with web GUI
- » Debug Mode: RSSI level Packet error rate CINR, Dynamic Tx power Modulation
- » Encryption/Decryption: DES, 3DES, AES
- » MIMO: 2x2 SU-MIMO, Transmission Mode4 (close-loop spatial multiplexing) PDSCH, 2x2 close-loop spatial multiplexing
- » Beam forming (LTE): Transmission Mode 7
- » Power Control(4.5G): DL power control UL Power Control
- » Device Management: WEB, Telnet, CLI, SSH, RMSC
- » Support TR069 management

Secure Data Transmission

- » VPN support DMVPN/VPDN/L2TP/PPTP/IPSec/OpenVPN
- » IPSec over PPTP/L2TP
- » Supports DHCP Server
- » SNMP network management, NTP support, GPS clock support
- » QoS (Quality of Service) protocols
- » GREoIPSec

Ricon Management System Controller(RMSC)

- » Excellent monitor feature
- » Data flow detail
- » Instant statistic data
- » Adjustable SLA Levels
- » SLA based live alarm control
- » Bulk remote configuration
- » Remote configuration with timer
- » Remote terminal management maintenance
- » Display of GPS device location (optional)
- » Remote debugging
- » Auto setup w/ZTP-RF

Industrial Design

- » Aluminum alloy enclosure, IP64 safe
- » Industrial use
- » Wide power range (DC 5-36V)
- » WDT Support
- » Lightning protection
- » SIM/UIM connection: 15KV ESD protection
- » Power connection: Reverse and high voltage protection
- » Ethernet port: 1.5KV magnetic isolation

Multipurpose Design

- » Wi-Fi access point for end user
- » Industrial type CAT4/CAT6 (Opsiyonel) GSM Module
- » Wireless router with 3G/4.5G mobile network
- » 4.5G mobile network/WAN backup
- » Remote management and setup with Ricon Management System or Zero Touch - RF (Ricon Apps, ZTP)

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