

Ricon Mobile



S9980DSL-LTE

Industrial Router/Switch
Datasheet

Efficiency with Innovative Technology

RICON MOBILE INC.



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. It also has VPN, firewall, NAT, SNMP, DHCP, dynamic routing protocols like traditional router.

xDSL interface support 150Mbps/100Mbps, Wi-Fi support 866Mbps (5GHz) and throughput value is 600 Mbps. The unique feature of S9980DSL-LTE Router is network online & dynamic network backup among xDSL, 3G/4.5G(LTE) network.

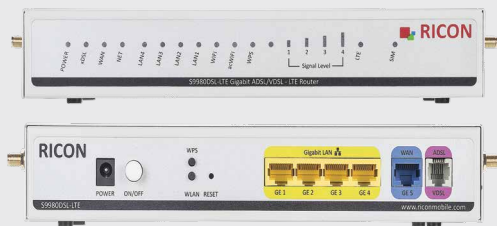
Ricon Mobile S9980DSL-LTE routers can managed by web based CLI interface. Besides, instant and statistic data can be monitor with Ricon Management Controller System (RMSC). By the management system, you can check running info of S9980DSL-LTE Router and configure the router remotely and publish remote updates.

S9980DSL-LTE router is being used in health, transportatation, sales, finance, banks, insurance sectors for remote office and secure communications.



S9980DSL-LTE Model & Specification

S9980DSL-LTE



- LTE support, 2G/3G compatibility
- 1x SIM slot
- Single GSM Module
- 4 x Gigabit LAN
- 1 x Gigabit WAN
- 1 x SIM (Passive Backup)
- VLAN Support (LINK TAG)
- LTE+/LTE/DC-HSPA/HSDPA+/HSDPA/WCDMA/2G
- WEB User Interface/CLI/Telnet/SSH
- Ricon Management System Controller (RMSC)
- Component level industrial design
- 2x2 LTE MIMO SMA Antenna
- 2 x 802.11b/g/n Antenna
- 802.11b/g/n Wi-Fi
- 5651 Log

S9980DSL-LTE Router Specification

Interface



» LAN	: 4x1000 Mbps
» WAN	: 1x1000 Mbps
» ADSL/VDSL	: 1X RJ-11
» GSM LTE	: 1X SIM Slot
» SMA Antenna (MIMO)	: 2
» SMA Antenna (optional 5.8GHz)	: 2
» DC Power Socket	: 1
» WLAN Button	: 1
» WPS Button	: 1
» Reset Button	: 1

Indicator



» PWR	: Power indicator
» WAN	: WAN cable connection status
» Wi-Fi	: Wireless LAN connection
» LTE	: RF indicator
» NET	: Connection status
» LAN	: LAN cable connection status
» xDSL	: DSL connection status
» SIM	: SIM status

Power



» Idle	: 80mA + 12VDC
» Power Consumption	: <7W
» Power supply	: 5-36 VDC

Environment Parameters



» Dimension	: 230 mm x 150 mm x 40 mm
» Working Temperature:	: -35°C~+75°C
» Relative Humidity:	: <95 (non-condensing)
» IP54 safe	

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)

Wi-Fi

- » IEEE 802.11b/g/n/ac (866 Mbps)
- » AP, Client, station, bridge 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

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



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)

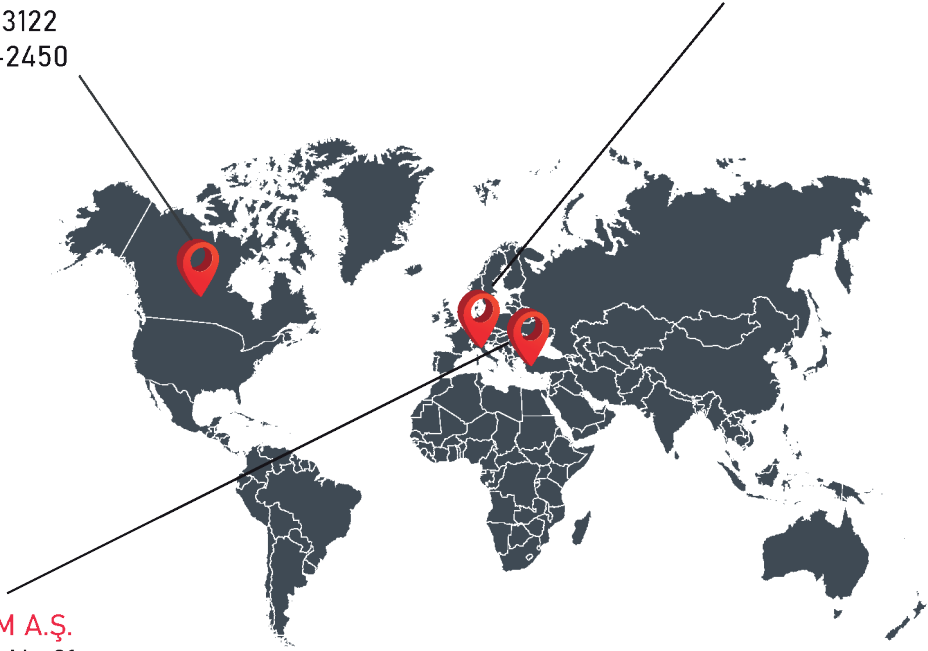
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