

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.

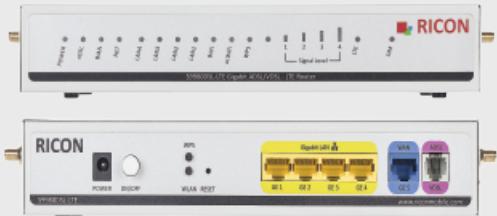
This document introduced how to use S9980DSL-LTE and its powerful features. S9980DSL-LTE Router, supports tradition router functions like VPN, firewall, NAT, SNMP, DHCP. S9980-DSL/LTE supports 3G/4.5G(LTE) as WAN interface, provide up to 300Mbps downstream and 100Mbps upstream WAN bandwidth and up to 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 (RMS). By the management system, you can check running info of S9980DSL-LTE Router and configure the router remotely and publish remote updates.



S9980DSL-LTE Models & Specifications

S9980DSL-LTE



- 4.5G (LTE) / 3G support, 2.5G / 3G compatibility
- 1 SIM Slot
- Single GSM Module
- 4 Gigabit LAN
- 1 Gigabit WAN
- 1 xDSL port (RJ11 input for VDSL / ADSL)
- Throughput Value 400 Mbps
- IEEE802.3 Ethernet
- Supports IEEE802.11b / g / n / ac, 2.4GHz and 5.8GHz wifi bands
- Ricon Management System (RMS)
- 2 LTE MIMO RP-SMA Antennas
- 1 802.11b / g / n WiFi Antenna, 1 802.11ac WiFi Antenna
- Industrial IP64 metal dust proof box
- Rack Mount Kit
- WiFi 5651 Log Support

S9980DSL-LTE Router Specifications

Interfaces



» 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

Indicators



» PWR	: Power Indicator
» WAN	: Wide Area Network Cable Connection Status
» Wi-Fi	: Wireless LAN Connection
» LTE	: RF Inditator
» NET	: Connection Status
» LAN	: Local Area Cable Connection Status
» xDSL	

Power Specifications



» Idle	: 80mA + 12VDC
» Single Module Power Consumption	: <7W

Enviroment Parameters



» Dimensions	: 230 mm x 150 mm x 40 mm
» Weight	: 822 gr. (Including antennas)
» Working Temperature:	: -35°C~+75°C
» Relative Humidity:	: <95 (non-condensing)

Specifications

S9980DSL-LTE SWITCH/ROUTER

Cellular Networks



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

Device Management

- » Local or remote web browser
- » CLI/Telnet command
- » RMS Ricon Management Sistem (optional)
- » SSH konfig (optional)
- » SNMP
- » 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 debugnma

System Specification

- » CPU : 88MP1826
- » RAM : 512 MB
- » Flash : 1 GB
- » Throughput values : 400Mbps
- » DL : 300 Mbps
- » UL : 100 Mbps
- » RxDiversity support
- » Support IP and PPP type
- » PAP/CHAP authentication
- » SIM/WAN backup

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



- » Standard: 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
- » 80 Concurrent users

VPN



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

Firewall & Filtering



- » IP packet/Domain
- » NAT
- » Port Forwarding, DMZ support
- » URL filter
- » MAC filter
- » WAN Access Control;
- » Support PIN and PUK based SIM card security
- » Tacacs

(RMS) Ricon Management System

- » Excellent monitor capability
- » Remote terminal management maintenance
- » Checking the internet status at any time
- » Display of GIS device location (optional)
- » Remote debugging
- » Flow static and analysis
- » ZTP (Zero Touch Provisioning) remote with RiconApps integrated automatic setup support



S9980DSL-LTE SWITCH/ROUTER

Network Mode

- » 4G (TD-LTE/FDD LTE), DS-HSPA+, HSPA+, HSPA, WCDMA, EVDO, TD-SCDM, CDMA1x, EDGE/GPRS
- » WLAN AP/station/repeater, 802.11n/ac at most 300 Mbps,
- » 2.4 GHz ve 5.8 GHz
- » 4 Gigabit LAN connection points
- » WAN support ADSL (PPPoE), static IP, DHCP client
- » Support VPDN, APN private network
- » 802.11b/g/n/ac Wi-Fi,
- » WPS key
- » Supports DNS proxy, Dynamic DNS (DDNS) and IPv6
- » Device works as master or slave with the configuration in compliance with the RFC VRRP
- » 4 VLAN (Tagged / Untagged Support)
- » Support for IP address loop testing
- » SNMPv2, TR069
- » DHCP Server

Software Specifications

- » Configuration: Auto channel scanning and selection
Configurable BS profiles (frequency, bandwidth)
- » Local WEB GUI: The Web GUI utilizes HTTPs for logging on to the device, it's easy to control the device.
- » Debug Mode: RSSI level Packet error rate CINR, Dynamic Tx power Modulation
- » Encryption/Decryption: AES SNOW3G NULL
- » MIMO: 2x2 SU-MIMO, Transmission Mode4 (Close-loop spatial multiplexing) PDSCH, 2x2 close-loop spatial multiplexing should be supported.
- » Beam forming (LTE): Transmission Mode 7
- » Power Control(4.5G): DL Power Control UL Power Control
- » Device Management: Web Access (Local)
- » 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

Routing Protocols

- » Static Routing
- » RIPv2/OSPF
- » VRRP
- » BGP

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