S9980DSL-LTE



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RICON S9980DSL-LTE, is an industrial router that combines xDSL and LTE Cat.4 in a single device, designed for fixed and cellular network infrastructures. **With xDSL connectivity support,** it stands apart from standard LTE routers while offering flexible connectivity with 4 × Gigabit LAN, 1 × Gigabit WAN, dual-band Wi-Fi and SIM card support. Its IP54 protection class and -30 °C to +70 °C operating temperature range suit harsh industrial conditions.

S9980DSL-LTE offers alternative access infrastructures with xDSL and cellular connectivity while supporting network continuity with automatic failover/failback. Advanced networking technologies such as BGP, OSPF, VLAN/VRF and MPLS, together with IPSec, WireGuard and OpenVPN support, enable secure and flexible enterprise networks. It is well suited to branch connectivity, retail chains and distributed business networks.

S9980DSL-LTE can be configured via the web interface, CLI, SNMP and TR-069; it can be monitored centrally and managed remotely through the cloud management platform. Remote software update and automatic version rollback features simplify maintenance processes and contribute to operational efficiency.

Features

- LTE / 4G / 3G support
- Failover/Failback
- IPSec VPN
- OpenVPN
- WireGuard
- GRE Tunneling
- Firewall
- MAC / IP Filter
- DoS/DDoS Protection
- HTTPS / SSH Connection
- Static & Dynamic Routing
- BGP
- VRF / VLAN
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- OTA Software Update
- Cloud Management Platform (Optional)
- WPA2 / WPA3
- MAC Filter
- WPS / Wi-Fi Scheduling
- Gigabit Ethernet ports
- Connection timers
- Task definition via script file

Specifications

Dimensions and Weight

- Height: 40mm
- Width: 230mm
- Depth: 150mm
- Weight: 784g

Environmental

- Idle: 80mA + 12VDC
- Single Module Power: <7W
- IP54 Protection
- Operating Temp. –30…+70 °C
- Storage Temp. –30…+85 °C
- Humidity <95% (non-cond.)

Certifications

- Industry Canada, PTCRB, CE, FCC, UL, E57, RoHS
- EN 62311
- EN 60950- 1+A11+A1+A12
- EN 301-489-1/-7/-17/-24, EN 55022, EN 55024
- EN 301 511, EN 301 908-1/-2, EN 300 328

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General Specs

CPU	RTL8685PB MIPS 32Bit
Memory	64MB
HW Watchdog	Connection timers Ping / Uptime Watchdog Script tasks
SPI Flash	128MB
Module	Quectel EC25-EC Module

Interfaces and Configuration

LAN	4x1000 Mbps
WAN	1× 10/100/1000 Base-T RJ45
DHCP Server	DHCP Server/Client/Relay, DNS

Cellular Features

Cellular Modem Module	EC25-EC
Module Type	MINI PCIe
Region	Global
Chipset	Qualcomm MDM9207-1
Category	LTE: Cat.4
Cellular Bands	4G LTE: B1 / B3 / B7 / B8 / B20 / B28A 3G UMTS/WCDMA: B1 / B8 2G GSM: B3 / B8
SIM Support	(U)SIM

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Security Features

Firewall	Identity-Based Firewall Identity-Based Firewall DoS
Filters	Access restriction Wireless access restriction
Misc	Security log Packet capture log (pcap)

Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update Cloud Management Platform SSH SNMPv2 TR-069
Version Management	Image Checksum Active version and backup version Automatic rollback when remote upgrade fails
Account Management	TACACS/TACACS+, Radius Auth.
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	SIM Slot selection Full band scan Modem Band Lock Automatic/On-demand dialing Enable/Disable Radio Pppd and DHCP dialing options
Modem Backup	Via interface

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Wi-Fi

Chipset	Realtek RTL8812FR
Wi-Fi Features	Wi-Fi Radio: 2.4 GHz and 5 GHz, up to 80 MHz Wi-Fi Standards: IEEE 802.11 a/b/g/n/ac (Wi-Fi 4 and Wi-Fi 5) Channel Bandwidth Support: 20/40/80 MHz 2.4 GHz Maximum Data Rate: 300 Mbps (2×2 MIMO, 40 MHz)
MIMO	2.4 GHz: 2×2 MIMO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2, WPA3 Encryption: AES, TKIP
Mode	Access Point (AP) and Wi-Fi Client (Station/Client) modes are supported

Network Features

Routing	Static Routing, Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-Based Routing (PBR) Support
Tunnels	IPSec VPN WireGuard OpenVPN L2TP PPTP MPLS GRE Tunneling Firewall MAC / IP Filtering DoS Protection HTTPS / SSH Access
Routing	NAT Support Port Forwarding DMZ Support
Load Balancing	Per-Packet Routing Support

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Ordering Information and Accessories

S9980DSL-LTE	CAT4 Cellular Radio Interface 4xLAN Gigabit, 1xWAN Gigabit, SIM Slot xDSL 2.4 GHz Wi-Fi 802.11 a/b/g/n/ac

Defaults

Default Box Contents	S9980DSL-LTE 12 VDC 1.5 A Power Supply 2 x Rack mount kit 2 x 4G Antennas 2 x WiFi antennas 1m CAT6 cable 1 x RJ11 cable

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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.

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