

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

Technical specifications

Dimensions and weight

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

Environmental

- Idle: 80mA + 12VDC
- Single Module Power Consumption: <7W
- IP 54 Protection
- Operating Temperature -30...+70 °C
- Storage Temperature -30...+85 °C
- Humidity <95% (non-condensing)

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

General specifications

CPU	RTL8685PB MIPS 32Bit
Memory	64MB
HW Watchdog	Connection timers Ping / Uptime Watchdog Scripted 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 (SDX62)	4G LTE: B1 / B3 / B7 / B8 / B20 / B28A 3G UMTS/WCDMA: B1 / B8 2G GSM: B3 / B8
SIM Support	(U)SIM

Security Features

Firewall	Identity-Based Firewall Identity-Based Firewall DoS
Filters	Access restriction Wireless access restriction
Misc	Security logging Packet capture logging (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 feature 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 scanning Modem Band Lock Automatic/Optional dialing Radio Enable/Disable Pppd and DHCP dialing options
Modem Backup	Via interface

Wi-Fi

Chipset	Realtek RTL8812FR
Wi-Fi Features	Wi-Fi Radio: 2.4 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), Wi-Fi Client (Station/Client) modes are supported

Network Features

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

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
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Defaults

Box Contents	S9980DSL-LTE 2 x 3m LTE Antenna 2.4 GHz Antenna 1m CAT6 cable Mounting kit 12 VDC 1.5 A Power Supply
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About Ricon

At Ricon, we create technologies that make communication easier.

As a 24-year-old B2B technology innovation company, we design networks that sense, think, and act across mobile, fixed, and cloud networks.

Service providers, enterprises, and partners around the world trust Ricon today to deliver secure, reliable, and sustainable networks, and work with us to create the digital services and applications of the future.

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