



# S9980DSL/FO-LTE



## Features

- LTE / 4G / 3G support
- Dual SIM / Multi-SIM
- Failover/Failback
- IPSec VPN
- OpenVPN
- WireGuard
- GRE Tunneling
- Firewall
- MAC / IP Filtering
- DoS/DDoS Protection
- HTTPS / SSH Access
- 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)
- Syslog / Event Log
- OTA Firmware Update
- SMS Command
- Cloud Management Platform
- WPA2 / WPA3
- MAC Filtering
- WPS / Wi-Fi Scheduling
- Gigabit Ethernet ports
- USB Port
- Connection timers
- Ping / Uptime Watchdog
- Automation with SMS
- Task definition with script
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

## Technical specifications

### Dimensions and weight

- Height: 230mm
- Width: 150mm
- Depth: 40mm
- Weight: 822gr

### Environmental

- Idle: 80mA + 12VDC
- Single Module Power Consumption: <7W
- DC 5.5 x 2.1mm (DC5521) Locking DC Barrel Plug
- Outside Diameter: 5.5mm
- Inner Diameter: 2.1mm

### Certified

- **ATEX Zone 1 & 21 Certified II 2G Ex db IIB T6 Gb / II 2D Ex tb IIIC T85°C Db** (No: ICR/VC/HM2512206)



## General specifications

CPU	ARMv7 Processor rev 1 (v7l)
Memory	512MB
HW Watchdog	Connection schedulers Ping / Uptime Watchdog SMS automation Scripting tasks
SPI Flash	64MB

## Interfaces and Configuration

LAN	4x1000 Mbps
WAN	1x 10/100/1000 Base-T (RJ45, MDI-X) 1x SFP (Fiber)
DHCP Server	DHCP Server/Client/Relay, DNS

## Cellular Specifications

Cellular Modem Module	EP06
Module Type	PCIE
Region	Global
Chipset	UNISOC 8910DM
Category	LTE: Cat.4
Cellular Bands (SDX62)	LTE-FDD B1/ 3/ 5/ 7/ 8/ 20/ 28 LTE-TDD B38/ 40/ 41 WCDMA B1/ 5/ 8 GSM 900/1800 MHz
SIM Support	2 x U-SIM Cards

## Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection
Filters	Access restriction Restricting wireless access
Misc	Security logging Security alarms Packet capture logging (Dump to file pcap)

## GNSS / GPS Features (Optional)

Chipset	ATGM336D
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 Galileo: E1, E5a BDS: B1I, B2a
Default Constellations	GPS + GLONASS + Galileo + BDS + QZSS
Number of Concurrent GNSS	4 + QZSS
SBAS	WAAS, EGNOS, MSAS and GAGAN

## Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform
Version Management	Image Checksum Active version and backup version Auto rollback feature when remote upgrade fails
Accounts Management	Integrated Admin/Guest accounting TACACS/TACACS+, Radius Auth. models
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 Auto/On-Demand dial Enable/Disable Radio Pppd and DHCP dialing options
Modem Failover	Support fail-over on interface drop. Support fail-over on traffic flow interruptions Support Automatic connection recovery.

## Wi-Fi

Chipset	TR5120
Wi-Fi Specifications	Wi-Fi Radio: 2.4 GHz + 5 GHz dual-band, up to 80 MHz Wi-Fi Standards: IEEE 802.11 a/b/g/n/ac (WiFi 4 & WiFi 5) Channel Bandwidth Support: 20/40/80 MHz 2.4 GHz Maximum Data Rate: ~300 Mbps (1x1 MIMO, 40 MHz) 5 GHz Maximum Data Rate: ~867 Mbps (1x1 MIMO, 80 MHz)
MIMO	2.4 GHz Band: 2x2 MIMO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2 Encryption: AES, TKIP
Mode	Accesspoint, WiFi Client (Station) modes supported **MU-MIMO is supported with both modes above **2x2 DL MIMO is supported with both modes above



## Networking Features

**Routing**  
Static Routing ,Dynamic Routing  
BGP  
OSPF / RIP  
VLAN  
NAT / Port Forwarding / DMZ  
DHCP Server / Client  
Bridging / Passthrough  
Policy-based Routing (PBR)

**Tunnels**  
IPSec VPN  
OpenVPN  
L2TP  
PPTP  
SSTP  
GRE Tunneling  
DMVPN  
Firewall  
MAC / IP Filtering  
DoS/DDoS Protection  
HTTPS / SSH Access

**Forwarding**  
NAT Support  
Port Forwarding  
DMZ Support

**Load Balancing**  
Per-Package Forwarding Support

## Ordering Information & Accessories

**S9980DSL/FO-LTE**  
CAT4 Cellular Radio Interface  
4xLAN Gigabit, 1xWAN Gigabit, 2xSIM Slots  
1xDSL  
2.4GHz-5GHz Wi-fi 802.11b/g/n/ac

## Defaults

**Default Box Contents**  
1 x S9980DSL/FO-LTE Router Hardware  
2 x 3M Antennas for 4G  
2 x WiFi antenna for 2.4GHz and 5GHz  
1 x 1m. CAT6 Ethernet patch cable  
2 x Mounting kit  
1 x 12VDC 1.5A 18W Power Supply



## About Ricon

At Ricon, we create technology that brings the communication handy.

As a 24 years B2B technology innovation company, we are designing networks that sense, think and act across mobile, fixed and cloud networks.

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

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