# S9980DSL-LTE

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# 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)


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## General specifications

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

## Interfaces and Configuration

| | |
|---|---|
| LAN | 4x1000 Mbps |
| WAN | 1× 10/100/1000 Base-T (RJ45, MDI-X)<br>1× 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<br>B1/ 3/ 5/ 7/ 8/ 20/ 28<br>LTE-TDD<br>B38/ 40/ 41<br>WCDMA<br>B1/ 5/ 8<br>GSM<br>900/1800 MHz |
| SIM Support | 2 x U-SIM Cards |


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## Security Features

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

## GNSS / GPS Features (Optional)

| | |
|---|---|
| Chipset | ATGM336D |
| Supported Bands | GPS/ QZSS: L1 C/A, L5<br>GLONASS: L1<br>Galileo: E1, E5a<br>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)<br>CLI (SSH / Telnet)<br>SNMP<br>Syslog / Event Log<br>OTA Firmware Update<br>SMS Command<br>Cloud Management Platform |
| Version Management | Image Checksum<br>Active version and backup version<br>Auto rollback feature when remote upgrade fails |
| Accounts Management | Integrated Admin/Guest accounting<br>TACACS/TACACS+, Radius Auth. models |
| Retrievable Parameters<br>WEB UI / CLI / TR-069 / SNMP | CLI Command-line access<br>SNMP Remote monitoring and management<br>Web-based graphical interface management |


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## Cellular Modem Features

| | |
|---|---|
| APN Data Services | Dynamic APN support<br>SIM PIN management<br>Bridge Mode Support |
| Modem Interface Configuration | SIM Slot selection<br>Full band-scan<br>Modem Band-Lock<br>Auto/On-Demand dial<br>Enable/Disable Radio<br>Pppd and DHCP dialing options |
| Modem Failover | Support fail-over on interface drop.<br>Support fail-over on traffic flow interruptions<br>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<br>Wi-Fi Standards: IEEE 802.11 a/b/g/n/ac (WiFi 4 & WiFi 5)<br>Channel Bandwidth Support: 20/40/80 MHz<br>2.4 GHz Maximum Data Rate: ~300 Mbps (1x1 MIMO, 40 MHz)<br>5 GHz Maximum Data Rate: ~867 Mbps (1x1 MIMO, 80 MHz) |
| MIMO | 2.4 GHz Band: 2×2 MIMO |
| Region | Global |
| Wireless Security | Protocols: WEP, WPA, WPA2<br>Encryption: AES, TKIP |
| Mode | Accesspoint, WiFi Client (Station) modes supported<br>**MU-MIMO is supported with both modes above<br>**2x2 DL MIMO is supported with both modes above |


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## Networking Features

| | |
|---|---|
| Routing | Static Routing ,Dynamic Routing<br>BGP<br>OSPF / RIP<br>VLAN<br>NAT / Port Forwarding / DMZ<br>DHCP Server / Client<br>Bridging / Passthrough<br>Policy-based Routing (PBR) |
| Tunnels | IPSec VPN<br>OpenVPN<br>L2TP<br>PPTP<br>SSTP<br>GRE Tunneling<br>DMVPN<br>Firewall<br>MAC / IP Filtering<br>DoS/DDoS Protection<br>HTTPS / SSH Access |
| Forwarding | NAT Support<br>Port Forwarding<br>DMZ Support |
| Load Balancing | Per-Package Forwarding Support |

## Ordering Information & Accessories

| | |
|---|---|
| S9980DSL-LTE | CAT4 Cellular Radio Interface<br>4xLAN Gigabit, 1xWAN Gigabit, 2xSIM Slots<br>1xxDSL<br>2.4GHz-5GHz Wi-fi 802.11b/g/n/ac |

## Defaults

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


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## 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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