



S9980DSL/FO-LTE



Features

- LTE / 4G / 3G support
- Dual SIM / Multi-SIM
- 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)
- Syslog / Event Log
- OTA Software Update
- SMS Commands
- Cloud Management Platform (Optional)
- WPA2 / WPA3
- MAC Filter
- WPS / Wi-Fi Scheduling
- Gigabit Ethernet ports
- USB Port
- Connection timers
- Connection timers
- Automation via SMS
- Task definition via script
- TLS over MQTT
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Technical specifications

Dimensions and weight

- Height: 22mm
- Width: 180mm
- Depth: 94mm
- Weight: 468g

Environmental

- Idle: 0.5A + 12VDC
- Single Module Power Consumption: <7W
- DC 5.5 x 2.1mm (DC5521) Locking
- DC Barrel Plug
- Outer Diameter: 5.5mm
- Inner Diameter: 2.1mm
- IP 54 Protection
- Operating Temperature: -30 +70 °C

Certifications

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

General specifications

CPU	SPM340 ARM Dual Cortex A9 1GHz
Memory	512MB
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Scripted tasks
SPI Flash	128MB
Module	EC200A-EU (PCIe)

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 Features

Cellular Modem Module	EC200A-EU
Module Type	PCIe
Region	Global
Chipset	ASR1803
Category	LTE: Cat.4
Cellular Bands (SDX62)	LTE-FDD B1/B3/B5/B7/B8/B20/B28; LTE-TDD B38/B40/B41; WCDMA B1/B5/B8; GSM/EDGE B3/B8
SIM Support	2 x (U)SIM

Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection Identity-Based Firewall DoS/DDoS PCAP
Filters	Access restriction Wireless access restriction
Misc	Security logging Security alarms Packet capture logging (pcap dump file)

Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform (Optional) SSH TR-069
Version Management	Image Checksum Active version and backup version Automatic rollback feature when remote upgrade fails
Account Management	Integrated Admin/Guest accounting TACACS/TACACS+, Radius Auth. models
Retrieval 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	Supports backup on interface drop. Supports backup on traffic flow interruptions Supports automatic connection recovery.

Wi-Fi

Chipset	TR5120
Wi-Fi Features	Wi-Fi Radio: 2.4 GHz + 5 GHz dual band, up to 80 MHz Wi-Fi Standards: IEEE802.11 a/b/g/n/ac (WiFi4 and WiFi5) Channel Bandwidth Support: 20/40/80 MHz 2.4 GHz Maximum Data Rate: 300 Mbps 5 GHz Maximum Data Rate: 867 Mbps
MIMO	2x2 MIMO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2, WPA3 Encryption: AES, TKIP
Mode	Access Point, WiFi Client (Station) modes are supported **MU-MIMO is supported in both modes above **2x2 DL MIMO is supported in both modes above

Network Features

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

S9980DSL/FO-LTE	CAT4 Cellular Radio Interface 4xLAN Gigabit, 1xWAN Gigabit, 2xSIM Slot xDSL RJ11 Port 2.4 GHz-5 GHz Wi-Fi 802.11b/g/n/ac
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Defaults

Box Contents	S9980DSL/FO-LTE Router Hardware 2 x 3m LTE Antenna 2 x 2.4 GHz and 5 GHz WiFi antenna 1m CAT6 cable Mounting kit 12 VDC 1.5 A 18 W 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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