S9980DSL/FO-LTE



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RICON S9980DSL/FO-LTE, is an industrial router with a multi-WAN infrastructure that combines fiber optic, xDSL and LTE Cat.4 connectivity technologies in a single device. **With its SFP fiber optic interface and xDSL connectivity support,** it adapts to different fixed-line infrastructures and stands apart from standard LTE routers. With 4 × Gigabit LAN, 1 × Gigabit WAN, dual SIM slot and dual-band Wi-Fi (2.4 GHz / 5 GHz) support, it offers comprehensive connectivity options for businesses.

S9980DSL/FO-LTE supports network continuity with automatic failover/failback and connection recovery between cellular and fixed-line connections. In addition to advanced networking technologies such as BGP, OSPF, VLAN/VRF and MPLS, IPSec, WireGuard, OpenVPN and DMVPN support enable secure and flexible network infrastructures. It is a well-suited solution especially for enterprise branches, retail chains, distributed business networks and critical connection points where multiple access technologies are used.

S9980DSL/FO-LTE can be configured via the web interface, CLI, SNMP and TR-069 and can be managed remotely. The optional cloud management platform, remote software update and automatic version rollback features simplify central network management and contribute to increased operational efficiency.

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 file
- MQTT over TLS
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection

Specifications

Dimensions and Weight

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

Environmental

- Idle: 0.5A + 12VDC
- Single Module Power: <7W
- DC 5.5 x 2.1mm (DC5521) Locking
- DC Barrel Plug
- Outer Diameter: 5.5mm
- Inner Diameter: 2.1mm
- IP54 Protection
- Operating Temp.: –30 +70 °C

Certifications

- **ATEX Zone 1 & 21 Certified II 2G Ex db IIB T6 Gb / II 2D Ex tb IIIC T85°C Db**

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General Specs

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

Interfaces and Configuration

LAN	4x1000 Mbps
WAN	1× 10/100/1000 Base-T (RJ45, MDI-X) 1× 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	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

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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 log Security alarms Packet capture log (pcap to 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 when remote upgrade fails
Account 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

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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	Supports backup on interface failure. 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: IEEE 802.11 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	2×2 MIMO
Region	Global
Wireless Security	Protocols: WEP, WPA, WPA2, WPA3 Encryption: AES, TKIP
Mode	Access Point and WiFi Client (Station) modes are supported **MU-MIMO is supported in both of the above modes **2x2 DL MIMO is supported in both of the above modes

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Network Features

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

Ordering Information and Accessories

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

Defaults

Default Box Contents	S9980DSL/FO-LTE Router Hardware 12 VDC 1.5 A 18 W Power Supply 2 x Rack mount kit 2 x RCN-LTE-ANT-IND LTE Antennas 2 x WiFi antennas 1m CAT6 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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