S9955-5G/ODU



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RICON S9955-5G-OUT, is a high-performance router with 5G (3GPP Rel-16) cellular connectivity, designed for harsh outdoor conditions and industrial applications. **With IP67 protection class and ATEX Zone 1 & 21 certification** it is designed for use in environments with dust, water and explosive atmosphere risks. With a -30 °C to +70 °C operating temperature range, 5–48 V DC power input, 2 × Gigabit LAN, 1 × Gigabit WAN, dual SIM and dual-band Wi-Fi support, it offers flexible connectivity options.

S9955-5G-OUT supports network continuity with the Quectel RM500U-EA 5G modem module, automatic connection recovery and backup against traffic interruptions. With advanced BGP/OSPF routing, IPSec, OpenVPN and DMVPN support, it enables the creation of secure and flexible network infrastructures. It offers a powerful connectivity solution especially for oil and gas facilities, energy infrastructure, hazardous industrial sites and remote outdoor installations.

S9955-5G-OUT can be configured via the web interface, CLI, SNMP and TR-069; it can be monitored centrally and managed remotely through the cloud management platform. With optional multi-constellation GNSS/GPS and remote software update capabilities, it simplifies the management of distributed field operations and reduces the need for on-site visits.

Features

- 5G / 4G / 3G support
- Dual SIM / Multi-SIM
- Failover/Failback
- IPSec VPN
- OpenVPN
- L2TP / PPTP
- GRE Tunneling
- DMVPN
- Firewall
- MAC / IP Filter
- DoS/DDoS Protection
- HTTPS / SSH Connection
- Static & Dynamic Routing
- BGP
- OSPF / RIP
- VLAN
- NAT / Port Forwarding / DMZ
- DHCP Server / Client
- Bridging / Passthrough
- Policy-based Routing (PBR)
- Web GUI (HTTPS)
- CLI (SSH / Telnet)
- SNMP
- TR-069
- SMS Commands
- Cloud Management Platform
- WPA / WPA2
- MAC Filter
- Connection Timers
- Ping / Uptime Watchdog
- Automation via SMS
- Task definition via script file
- Identity-Based Firewall
- Cloud Access Control (CASB)
- TLS Inspection
- Optional GNSS / GPS
- 2 x 1000 Ethernet LAN
- 1 x 100/1000TBase Ethernet WAN
- 1 x 2.4GHz 1 x 5GHz WiFi Interface

Specifications

Dimensions and Weight

- Height: 217mm
- Width: 164mm
- Depth: 52mm
- Weight: 750g

Environmental

- Operating Temp.: -30~+70°C
- Storage Temperature: -40~85°C
- Humidity: <95%
- Operating Voltage: DC 5V~48V
- IP67 Protection
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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	Qualcomm IPQ4019 Quad Core ARM Cortex-A7 @717MHz
Memory	512MB
Storage	8GB eMMC (Optional)
HW Watchdog	Connection timers Ping / Uptime Watchdog SMS automation Script tasks
SPI Flash	32MB

Interfaces and Configuration

LAN	2 x 1000TBase Ethernet
WAN	1 x 1000TBase Ethernet
DHCP Server	DHCP Server/Client/Relay, DNS

Cellular Features

SIM Support	2 x U-SIM Cards
Cellular Modem Module	Quectel RM500U-EA
Module Type	M.2
Category	5G NR SA/NSA (3GPP Rel-16) • LTE-A Cat 12 (DL) / Cat 13 (UL)

Security Features

Firewall	Identity-Based Firewall Cloud Access Control (CASB) TLS Inspection
Filters	Access restriction Wireless access restriction
Misc	Security log Security alarms Packet capture log (pcap to dump file)

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GNSS / GPS Features (Optional)

Chipset	ATGM336H-5N32
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 BDS: B1I, B2a
Default Systems	GPS + GLONASS + BDS + QZSS
Number of Simultaneous GNSS	4 + QZSS
Protocols	OSPF Routing protocols RIPv2 Routing protocols WPA2 Wi-Fi encryption protocols Industrial data communication protocols
SBAS	WAAS, EGNOS, MSAS and GAGAN

Management Features

Management Interfaces	Web GUI (HTTPS) CLI (SSH / Telnet) SNMP TR-069 Syslog / Event Log OTA Firmware Update SMS Command Cloud Management Platform
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	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	IPQ4019 Integrated
Wi-Fi Features	IEEE 802.11b/g/n/ac
MIMO	5G NR: 2x2 MIMO / LTE: 2x2 MIMO
Wireless Security	WPA, WPA2

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Network Features

Routing	Static Routing, Dynamic Routing BGP OSPF / RIP VLAN NAT / Port Forwarding / DMZ DHCP Server / Client Bridging / Passthrough Policy-Based Routing (PBR) Support
Tunnels	IPSec VPN OpenVPN L2TP PPTP 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

Defaults

Default Box Contents	1 x S9955 Router Hardware 1 x PoE Adapter 2 x Rack mount kit 2 x Clamps 4 x 5G Antennas 4 x WiFi Antennas 1 x Ethernet 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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