



## S9955-5G/ODU



## Features

- 3 x 100/1000TBase Ethernet LAN
- 1 x 100/1000TBase Ethernet WAN
- Single Radio Modem Interface
- 2 x SIM Slots
- 1 x 2.4GHz 1 x 5GHz WiFi Interface

## Technical specifications

### Dimensions and Weight

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

### Environmental

- Operating Temperature: -40~75°C
- Storage Temperature: -40~85°C
- Humidity: <% 95
- Operating Voltage: DC 9V~48V
- IP 67 Protection

### 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)



## General Features

CPU	Qualcomm IPQ4019 Quad Core
Memory	DDR3 1GB
Storage	1GB
HW Watchdog	Connection timers Ping/Uptime Watchdog SMS automation Script tasks
SPI Flash	16MB

## Interfaces and Configuration

LAN	3 x 100/1000TBase Ethernet
WAN	1 x 100/1000TBase Ethernet (PoE support)
DHCP Server	DHCP Server/Client/Relay, DNS

## Cellular Characteristics

SIM Support	2 x U-SIM Card
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## Security Features

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

## GNSS / GPS Features

Chipset	Qualcomm Snapdragon X62
Supported Bands	GPS/ QZSS: L1 C/A, L5 GLONASS: L1 Galileo: E1, E5a BDS: B1I, B2a
Default Systems	GPS + GLONASS + Galileo + BDS + QZSS
Simultaneous GNSS Count	4 + QZSS
Sensibility	4 + QZSS
Protocols	OSPF Routing protocols RIPv2 Routing protocols WPA2 Wi-Fi encryption protocols Industrial data communication protocols
SBAS	WAAS, EGNOS, MSAS ve GAGAN

## Management Features

Administrative 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 Automatic rollback feature when remote upgrade fails
Account Management	Integrated Admin/Guest accounting TACACS/TACACS+, Radius Auth. models
Available Parameters	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/On-Demand Dialing Radio Enable/Disable PPP and DHCP Dialing Options
Modem Backup	Support backup in case of interface downtime. Support backup in case of traffic flow interruptions. Support automatic connection recovery.

## Wi-Fi

Chipset	IPQ4019 Integrated
Wi-Fi Features	IEEE 802.11b/g/n/ac
MIMO	5G sub-6 GHz: 4x4 MIMO / LTE: 4x4 MIMO
Wireless Security	WPA, WPA2

## Network Features

**Yönlendirme**

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

**Tunnels**

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

**Orientation**

- NAT Support
- Port Forwarding
- DMZ Support

**Load Balancing**

- Per Packet Routing Support

## Defaults

**Default Box Contents**

- 1 x S9955 Router Hardware
- 4 x Antennas for 5G
- 2 x WiFi antennas for 2.4 GHz and 5 GHz
- 1 x GPS antenna
- 1 x 12 VDC 1A Power Supply
- 1 x DIN Rail mounting kit



## About Ricon

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

As a 22 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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