SILBO
An Invendis Product

STAY CONNECTED

RQ55I

PROCESSOR	CELLULAR	Wi-Fi
MediaTek MT7621 512MB DDR RAM, 32MB Flash	Dual SIM 5G/4G/3G, External 5dB antennas	2.4GHz & 5.8Ghz, AP/Station, Internal 5dB antennas
ETHERNET 1x WAN 10/100/1000 1x LAN 10/100/1000	POWER 12V DC Input	OPERATING SYSTEM Open-WRT Linux
NMS Easy remote management and monitoring for large scale deployment.		

HARDWARE SPECIFICATION

CPU	MediaTek MT7621
FLASH	32MB
RAM	512MB
WAN	1x 10/100/1000 (802.3af PoE Out)
LAN	1x 10/100/1000 (802.3af PoE Out)
Cellular Modem	Optional Single (5G/4G)
SIM	2x Nano SIM
Reset	Pinhole Reset Button
Wi-Fi	802.11b/g/n/ac
Antenna	Cellular: 4 SMA Connector, Wi-Fi: 4x SMA connector
Enclosure	Metal Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fan less
Dimensions	209 x 30 x 154 mm (W x H x D)
Weight	950 gm
Input Power	12 Vdc

Operational & Environmental

Storage Temperature	-30 ~ 70℃
Operating Temperature	-20 ~ 60℃
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30

SOFTWARE FEATURES

Cellular

Cellular Module	5G SA Sub-6 up 2Gbps, NSA Sub-6 up to 2.2 Gbps, 4G (LTE) up to 600Mbps, 3G - up to 42 Mbps

Status	Single strength (RSSI), SINR, RSRP, RSRQ, SIM Status
Band Management	Auto/User configurable & Operator Lock
APN	Configurable, Auto APN (Planned)
Modem configuration mode	Single SIM, Dual SIM
SIM switching	Signal strength, ICMP echo, Data limit based
Bridge	Direct connection (bridge) between mobile ISP and device on LAN (Planned)
PDP Type	IPv4, IPv6, Dual stack
Passthrough	Router assigns its mobile WAN IP address to another device on LAN (Planned)

Wi-Fi

Wi-Fi Mode	Access Point, Station, Guest Wi-Fi, Repeater
Encryption	TKIP, AES
Technology	802.11 b/g/n/ac with 20 MHz, 40 MHz, 80MHz
Authentication	WPA (PSK), WPA2 (PSK)
TX Power	Configurable
Wi-Fi Schedular	Scheduled ON/OFF (Planned)

Firewall & Networking

Routing	Static routing
Network Protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, PPP, SSH, DHCP, SNMP (Planned), TR069 (Planned)
Connecting Monitoring	Ping Reboot, Scheduled Periodic Reboot
Firewall features	Port forward, traffic rules, SNAT, Zone- Zone traffic control
DHCP	Static and Dynamic
Failover	Configurable Failover option for Cellular WAN, Wired and Wi-Fi WAN (Planned)

Authentication	Pre-shared key, X.509 certificates
VLAN	Port based VLAN, Tag based VLAN 802.1ad
Other	MAC binding, black/whitelisting
VPN	Open VPN, IPsec, GRE, L2TP, PPTP, GRE over IPsec (P)
Open VPN	TUN/TAP (Planned)
IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec client. Encryption: 3DES, AES128, AES192, AES256
PPTP, L2TP	WAN with PPTP/L2TP configuration for secure broadband connection (Planned)

Remote Management

NMS	Remote monitoring of SILBO Networking products
NMS VPN	Remote access of SILBO and non SILBO Networking products using NMS VPN

Operating System

Operating System	Open-WRT based Linux OS
Supported Languages	Shell scripting, C, C++, Python (Optional)
Development tools	SDK package with built environment provided (Optional)
Standard Packaging	Product 4x Cellular Rubber Duck Antennas 2x 2.4Ghz & 2x5Ghz Wi-Fi Rubber Duck Antennas Power cable 0.5 mts Ethernet cable