SILBO
An Invendis Product

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RS55

PROCESSOR	CELLULAR	Wi-Fi
MediaTek MT7621 512MB DDR RAM, 32MB Flash	Dual SIM 5G/4G/3G, External 5dB antennas	2.4GHz & 5.8 Ghz, 300Mbps AP/Station, External 5dB antennas
ETHERNET 1x WAN 10/100/1000 2x 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
LAN	2x 10/100/1000
Cellular Modem	Single 5G Modem
Reset	Pinhole Reset Button
Wi-Fi	802.11b/g/n/ac
Antenna	Wi-Fi: 3x SMA connector
Enclosure	Metal Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fan less
Dimensions	115 x 31 x 119 mm (W x H x D)
Weight	500 gm
Status LED	Mode, Connectivity, Wi-Fi, Power
Input Power	12 Vdc
Operational & Environmental	
Storage Temperature	-30 ~ 70℃
Operating Temperature	-20 ~ 60℃
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30

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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
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

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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 (Planned)
Open VPN	TUN/TAP (Planned)
IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec client. Encryption: DES, 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 Wi-Fi Rubber Duck Antennas 4x 5G Rubber Duck Antennas Power Cable 0.5-meter Ethernet cable