SILBO
An Invendis Product

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RI44

PROCESSOR	CELLULAR	Wi-Fi
QCA9531 128MB DDR RAM, 32MB Flash	4G/3G/2G with Dual SIM, External antennas(3-9dBi)	2.4GHz, 300Mbps AP/Station, External 5dBi antennas
ETHERNET 1x WAN 10/100/1000 4x LAN 10/100/1000	POWER -48V DC Input	OPERATING SYSTEM Open-WRT Linux
NMS Easy remote management and monitoring for large scale deployment.		

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HARDWARE SPECIFICATION	
CPU	QCA9531
FLASH	32MB
RAM	128MB
WAN	1x 10/100/1000 (WAN/LAN configurable with active POE out 802.3af)
LAN	4x 10/100/1000
Serial Interface	RS232, RS485
SIM	2x Nano SIM
Reset	Pinhole Reset Button
Wi-Fi	802.11b/g/n
Antenna	Cellular: 2x SMA Connector, Wi-Fi: 2x SMA connector
Enclosure	Metal Enclosure
Mounting	Wall Mount
Design	Fan less
Dimensions	281 x 34 x 119mm (W x H x D)
Weight	1040 gm
Input Power	-48 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	4G (LTE) - Cat 4 up to 150 Mbps, 3G – up to 42 Mbps, 2G – up to 236.8 Kbps

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Status	Single strength (RSSI), SINR, RSRP, RSRQ
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 with 20 MHz, 40 MHz
Authentication	WPA (PSK), WPA2 (PSK)
TX Power	Configurable
Wi-Fi Schedular	Scheduled ON/OFF

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
Authentication	Pre-shared key, X.509 certificates
VLAN	Port based VLAN, Tag based VLAN 802.1ad

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Other	MAC binding, black/whitelisting
VPN	Open VPN, IPsec, GRE, L2TP, PPTP
Open VPN	TUN/TAP (Planned)
IPsec	IKEv1, IKEv2, supports up to 4x VPN IPsec client. Encryption: 3DES, AES128, AES192, AES256
PPTP, L2TP	WAN with PPTP/L2TP configuration for secure broadband connection

Gateway

Gateway Protocols	Modbus RTU, Modbus TCP
Data Sender	HTTP, MQTT, Azure MQTT

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 2x Cellular Magnetic Mount Antennas 2x Wi-Fi Magnetic Mount Antennas 0.5-meter Ethernet cable RS485 TB Power TB