SILBO
An Invendis Product

STAY CONNECTED

RF44R

PROCESSOR	CELLULAR	Wi-Fi
MediaTek MT7628 64MB DDR RAM, 32MB Flash	4G/3G/2G with Single SIM, External 5dBi antennas	2.4GHz AP External 5dBi antennas
ETHERNET	POWER	OPERATING SYSTEM
1x LAN 10/100	12V DC Input	Open-WRT Linux

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HARDWARE SPECIFICATION

CPU	MediaTek MT7628
FLASH	32MB
RAM	64MB
LAN	1x 10/100
SIM	1x Nano SIM
Serial Interface	1 x RS485
Reset	Pinhole Reset Button
Wi-Fi	802.11b/g/n
Antenna	Cellular: 2x SMA Connector, Wi-Fi: 2x SMA connector
Enclosure	Metal Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fan less
Dimensions	58 x 25 x 73mm (W x H x D)
Weight	360 gm
Status LED	Mode, Connectivity, Wi-Fi, Power
Input Power	12 Vdc

Operational & Environmental

Storage Temperature	-30 ~ 70℃
Working 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
SIM switching	Signal strength, ICMP echo, Data limit based
PDP Type	IPv4, IPv6, Dual stack

Wi-Fi

Wi-Fi Mode	Access Point, Guest Wi-Fi
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
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, Wi-Fi WAN
Authentication	Pre-shared key, X.509 certificates
Other	MAC binding, black/whitelisting
VPN	Open VPN, IPsec, GRE, L2TP, PPTP
Open VPN	TUN/TAP (Planned)

IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec client. Encryption: 3DES, AES128, AES192, AES256

Gateway

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

Operating System

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