SILBO
An Invendis Product

STAY CONNECTED

IAC44C

PROCESSOR	CELLULAR	Wi-Fi
MediaTek MT7628 128MB DDR RAM, 32MB Flash	Dual SIM 4G/3G/2G, External 5dB antennas	2.4GHz, 300Mbps AP/Station, External 5dB antennas
ETHERNET	POWER	OPERATING SYSTEM
4x LAN 10/100 1x WAN 10/100	9-30V DC Input	Open-WRT Linux
NMS		
Easy remote management and monitoring for large-scale deployment.		

HARDWARE SPECIFICATION

CPU	MediaTek MT7628
FLASH	32MB
RAM	128MB
WAN	1x 10/100
LAN	4x 10/100
Serial Interface	1xRS485
GPIO	2xDI/O
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	Industrial Aluminium alloy Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fanless
Dimensions	112 x 35 x 92mm (W x H x D)
Weight	390 gm
Status LED	Single strength, Active SIM status, Internet connectivity, Power, Wi-Fi Status, Rx & Tx serial interface LED.
Input Power	9-30 Vdc

Operational & Environmental

Storage Temperature	-30 ~ 75℃
Storage Temperature	-25 ~ 65℃
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
Status	Single strength (RSSI), SINR, RSRP, RSRQ
Band Management	Auto/User configurable & Operator Lock
APN	Configurable, Auto APN
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)

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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
Other	MAC binding, black/whitelisting
VPN	Open VPN, IPsec, GRE, L2TP, PPTP, GRE over IPsec
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

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

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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 Cord 1-meter Ethernet cable RS 485 Terminal Block & I/O Terminal Block

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