SILBO
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IAB44 B

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 antenna.
ETHERNET	POWER	OPERATING SYSTEM
1x LAN 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 + 4GB Storage (Optional)
RAM	128MB
LAN	1x 10/100
Serial Interface	1xRS232, 1x RS485
GPIO	4xDI/O, 2xAI (1xAnalog current, 1xAnalog voltage)
USB interface	1xUSB-H
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)
LED Status	Single strength, Active SIM status, Internet connectivity, Power, Wi-Fi Status, Serial Rx & Tx LED status.
Design	Fan less
Dimensions	112 x 35 x 92mm (W x H x D)
Weight	400 gm
Input Power	9-30 Vdc
Operational & Environmental	
Storage Temperature	-30 ~ 75℃
Operating Temperature	-25 ~ 65℃
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30

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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 (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
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 and Wi-Fi WAN
Authentication	Pre-shared key, X.509 certificates
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, 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

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, RS485 TB, DI/O TB, AI TB, 24Vdc Output TB, 0.5-meter Power Cord, 01-meter Ethernet cable.