STAY CONNECTED

IDB05

PROCESSOR	CELLULAR	
MediaTek MT7621 512MB DDR RAM, 32MB Flash	Dual SIM 5G/4G/3G, External 5dB antennas	
ETHERNET	POWER	OPERATING SYSTEM
3x LAN 10/100/1000 1x WAN 10/100/1000	9-30V DC Input	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	3x 10/100/1000
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
Antenna	Cellular: 4x SMA Connector, Wi-Fi: 4x 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	400 gm
Status LED	Singla Strength, Power, SIM1, SIM2, Connectivity, Serial Interface Rx, Tx LED, DI/O status LLED.
Input Power	9-30 Vdc
Operational & Environmental	
Storage Temperature	-30 ~ 75℃
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
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)
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 WAN.
Authentication	Pre-shared key, X.509 certificates
VLAN	Port based VLAN, Tag based VLAN 802.1ad
Other	MAC binding, black/whitelisting
VPN	TUN/TAP (Planned)

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

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 4x Cellular Rubber Duck Antennas Power Adaptor (Optional Accessory) 0.5-meter Power Cord 1-meter Ethernet cable RS 485 Terminal Block & I/O Terminal Block