



ID54



PROCESSOR

MediaTek MT7621 512MB
DDR RAM, 32MB Flash



CELLULAR

4G/3G/2G with Dual
SIM, External 5dBi antenna



Wi-Fi

Dual-Band Wi-Fi, AP/Station,
External 5dBi antennas



INTERFACE

3x LAN 10/100/1000
1x WAN 10/100/1000



POWER

9-30V DC Input



OPERATING SYSTEM

Open-WRT Linux

Introducing the ID54, your gateway to reliable connectivity in the 4G era. This cutting-edge device combines robust 4G cellular capabilities with four Gigabit Ethernet ports and Dual SIM support, ensuring seamless internet access for your applications. With Dual-band Wi-Fi functionality, the ID54 offers enhanced wireless connectivity, empowering your network with flexibility and speed. Operating flawlessly on a wide voltage input range from 9 to 30 Vdc, it's designed to adapt to diverse power setups. Plus, it supports industrial protocols like Modbus TCP master and data publishing options such as HTTP/MQTT and Azure HTTP/MQTT. Elevate your networking experience with the ID54.

Accessories:



Rubber Duck LTE Antenna



Rubber Duck Wi-Fi Antenna



Power Cable



Metal Din Rail

SOFTWARE SPECIFICATIONS

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
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
Encryption	TKIP, AES
Technology	802.11 b/g/n/ac with 20 MHz, 40 MHz
Authentication	WPA (PSK), WPA2 (PSK)
TX Power	Configurable
Wi-Fi Scheduler	Scheduled ON/OFF

Firewall & Networking

Routing	Static routing
Network Protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SCP, PPP, SSH, DHCP, SNMP (Planned), TR069
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 or load balancing 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
IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec clients. Encryption: DES, 3DES, AES128, AES192, AES256
PPTP, L2TP	WAN with PPTP/L2TP configuration for secure broadband connection

Remote Management

NMS	Remote monitoring of SILBO Networking products
NMS VPN	Remote access of SILBO and non-SILBO Networking Devices

Gateway (Planned)

Gateway Protocols	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)

HARDWARE SPECIFICATIONS

Operating System

CPU	MediaTek MT7621
FLASH	32MB
RAM	512MB
WAN	1x 10/100/1000 (Configurable WAN/LAN)
LAN	3x 10/100/1000
SIM	2x Nano SIM (1x Active & 1x Passive)
Reset	Pinhole Reset Button
Wi-Fi	802.11b/g/n/ac
Antenna	Cellular: 2x SMA Connector, Wi-Fi: 4x SMA connector
Enclosure	Industrial Aluminium Alloy Enclosure
Mounting	Din-rail mount (Optional)
Design	Fanless
Dimensions	112 x 35 x 92mm (W x H x D)
Weight	400 gm
Status LED	Single strength, Wi-Fi 4 & Wi-Fi 5 LED, Power LED
Input Power	9-30 Vdc

Operational & Environmental

Storage Temperature	-30 ~ 75°C
Operating Temperature	-25 ~ 65°C
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30

Regulatory and Approvals

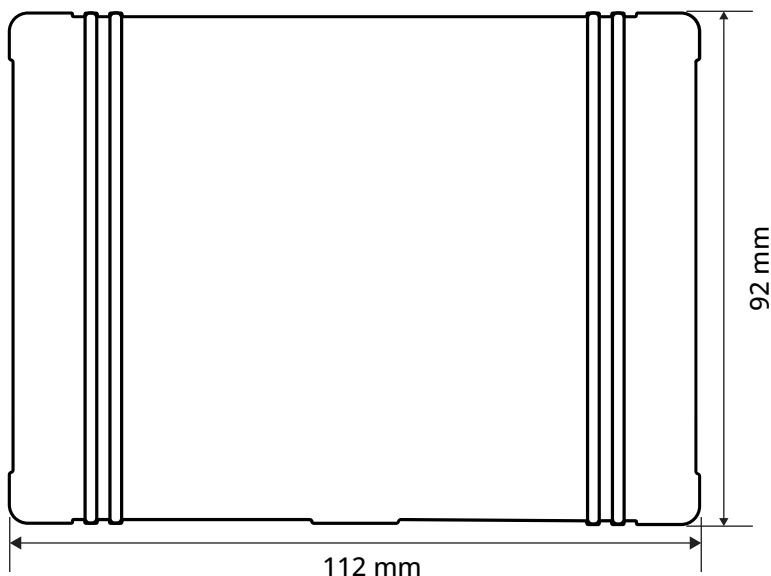
Regulatory	CE
Emission	CISPR 32 Class A (EN55032)
Immunity	
• ESD	IEC 61000-4-2:2008
• EFT	IEC 61000-4-4:2012
• Surge	IEC 61000-4-5:2014
• Radiated Immunity	IEC 61000-4-3
• Conducted Immunity	IEC 61000-4-6

Standard Packaging

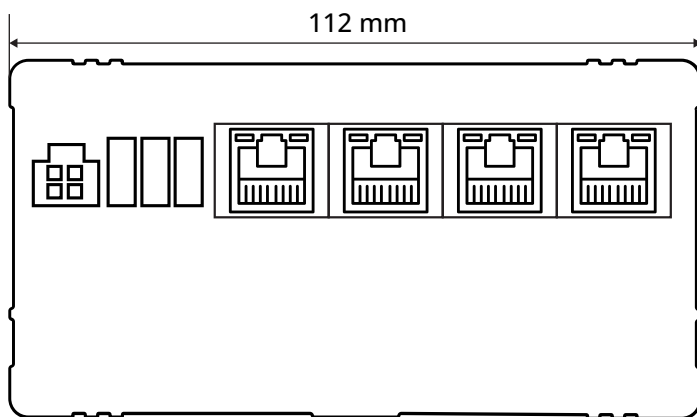
ID54 Cellular Gateway with Industrial Aluminium Housing , 2x Cellular Rubber Duck Antennas, 4x Wi-Fi Rubber Duck Antennas, 0.5-meter Power Cord, 01-meter Ethernet cable.

Spatial Measurement:

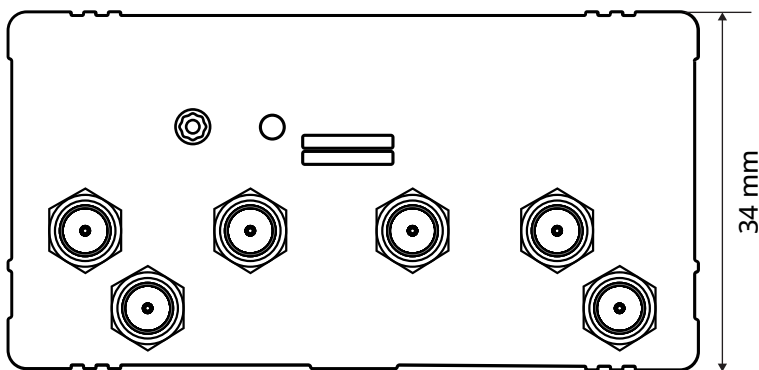
Top View



Front View






Rear View



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