



IE44-C



PROCESSOR

MediaTek MT7628, 128MB
DDR2 RAM, 32MB Flash



CELLULAR

Dual SIM 4G/3G/2G,
External 5dBi antennas



Wi-Fi

2.4GHz, 300Mbps AP/Station,
Internal 5dBi antennas



INTERFACE

1x WAN 10/100, 1x LAN 10/100
1x RS485, 2 X Configurable DIO



POWER

9-36 V DC Input



OPERATING SYSTEM

Open-WRT Linux

Accessories:



Rubber Duck LTE Antenna



Rubber Duck Wi-Fi Antenna



Power Cable



Metal Din Rail

HARDWARE SPECIFICATIONS

Operating System

CPU	MediaTek MT7628
FLASH	32MB
RAM	128MB
LAN	2x 10/100 Mbps
Cellular (M.2)	4G (LTE) - Cat 4 up to 150 Mbps, 3G - up to 42 Mbps, 2G - up to 236.8 Kbps
Serial Interface (Optional)	1x RS485 (2 Wire)
IO	2x Configurable DIO
SIM	2x Nano SIM
Reset	Pinhole Reset Button
LEDs	1x Power, 2x Cellular, 1x Wi-Fi, 2x Ethernet, 2x DIO, 1x RS485
Wi-Fi (Optional)	2.4Ghz, 802.11b/g/n
Antenna Interface	Cellular: 2x SMA Connector, Wi-Fi: 2x SMA connector
Enclosure	Sheet Metal Enclosure
Mounting	Din-rail mount (As an optional accessory)
Design	Fan less
Dimensions	95 x 24 x 94 mm (W x H x D)
Weight	280 gm
Input Power	9-36 Vdc

Operational & Environmental

Storage Temperature	-30 ~ 70°C
Operating Temperature	-20 ~ 60°C
Humidity	10 ~ 90% (non-condensing)
Ingress Protection Rating	IP30

SOFTWARE SPECIFICATIONS

Cellular

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
PDP Type	IPv4, IPv6, Dual stack

Wi-Fi

Wi-Fi Mode	Access Point, Station, Guest Wi-Fi
Encryption	TKIP, AES
Technology	2.4Ghz, 802.11b/g/n
Authentication	WPA (PSK), WPA2 (PSK)
TX Power	Configurable
Wi-Fi Scheduler	Scheduled ON/OFF

Firewall & Networking

Routing	Static routing
Network Protocols	Network Protocols TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, PPP, SSH, DHCP, SNMP, 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 option for Cellular WAN, Wi-Fi WAN & Ethernet WAN
Authentication	Pre-shared key
Other	MAC binding, black/whitelisting
VPN	Open VPN Server/Client, TUN/TAP, IPsec Server/Client, GRE, L2TP Client, PPTP Client, GRE over IPsec, Zero Tier, Wire Gaurd
IPsec	IKEv1, IKEv2, supports up to 4xVPN IPsec client Encryption: 3DES, AES128, AES192, AES256

Remote Management

NMS	Remote monitoring of SILBO Networking products
NMS VPN	Remote access of SILBO and non SILBO Networking products using NMS VPN

Gateway

Gateway Protocols	Transparent Serial to Remote TCP Client Transparent Serial to Remote TCP Server Modbus TCP Master to Modbus RTU Slave Modbus RTU Master to Modbus TCP Slave
Data sender	Modbus RTU Master to HTTP, HTTPS, MQTT, Azure MQTT,AWS MQTT
Data Packet Structure	Configurable Json Packet Fixed CSV Configurable MQTT Topic Names

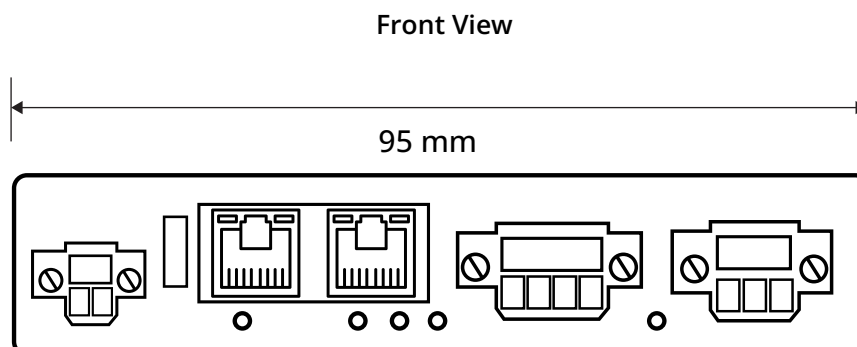
Operating System

Operating System	Open-WRT based Linux OS
Supported Languages	Shell scripting, C, C++
Development tools	SDK package with built environment provided (Optional)

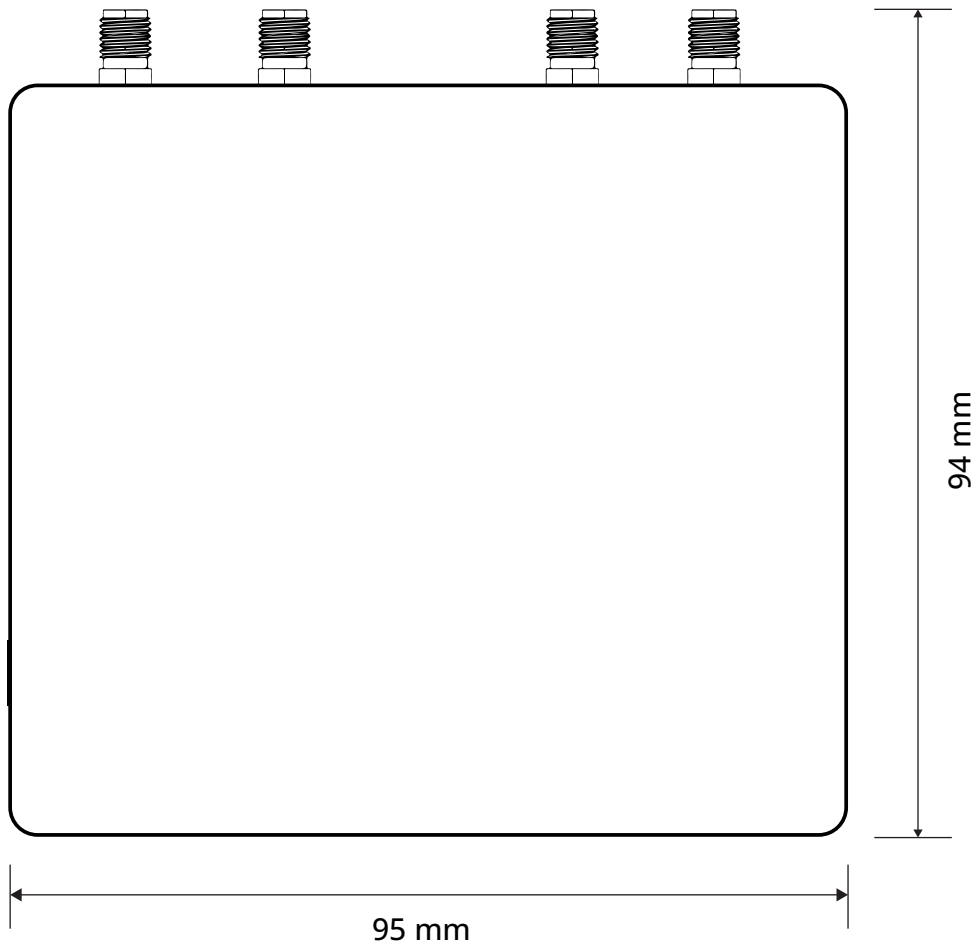
Standard Packaging

IE44-C Cellular Gateway with Sheet Metal Housing , 2x Cellular Rubber Duck Antennas,
2x Wi-Fi Rubber Duck Antennas, 1x DIO TB, 1x Power TB 1x RS485 TB, 01-meter Ethernet cable.

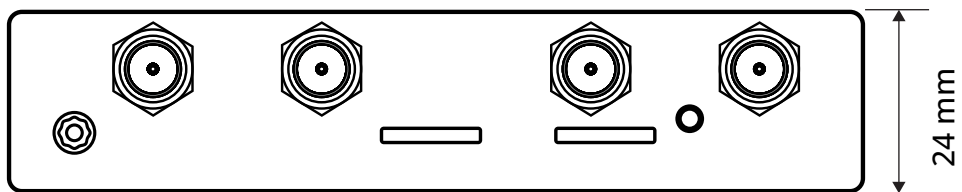
Spatial Measurement:



Top View






Rear View



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