

# LoRaWAN Indoor Gateway



Smart Agriculture, Smart Building, Smart Facility, Smart Farm, Smart Healthcare, Smart Retail, Smart Factory, Smart Transportation

SKU: GWIND

Safe Zone

Hazardous Zones

GWIND is a LoRaWAN® Gateway designed for indoor installation, used in projects such as Smart Factory, Smart Agriculture, Smart Building, Smart Residential Area, Smart City... It simultaneously supports 8 connection channels to help receive a large number of packets from surrounding LoRaWAN sensors. The connection distance to the LoRaWAN sensors is up to 10km (depending on the environment and sensor types). It supports common communications such as Ethernet, LTE, WiFi. LoRa frequency support 863~870MHz/902~928MHz.

This LoRaWAN Gateway is widely used in applications such as reading water meters, electricity meters, gas meters, environmental monitoring, smart farms, and smart factories...

## Applications

Automatic Ventilation System, Condition Based Monitoring, Energy Monitoring, Facility Monitoring, Fuel Monitoring, Gas Leakage Detection, Indoor Air Quality Monitor, Machine Health Monitoring, Odor Monitoring, People Counting, Production Monitoring, Temperature Monitoring, Vibration Monitoring, Warehouse Monitoring, Water Meter Reading

## Notes For Applications

**Connect to any LoRaWAN sensors**  
Compliance to LoRaWAN 1.0.3

**Various Internet connections**  
POE Ethernet as standard, Optional Wifi, LTE Cat 4, NB-IoT, LTE Cat M1

**Support all Network Server Software**  
Support Packet Forward/ Basic Station Mode. Support Spectral Scan & Listen Before Talk (LBT)

**POE Feature**  
Easy powering the device via POE Ethernet cable



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Created date: Jul-03-2024


Updated date: Aug-28-2024


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## Specification

|                          |   |
|--------------------------|---|
| LoRaWAN Specification    | LoRaWAN 1.0.3   |
| Frequency Band           | Select 863~870MHz/ 902~928MHz   |
| Number of Channels       | Up to 8 concurrent channels for LoRa transmission   |
| LoRa Transmit Power      | 0.5W (up to 27 dBm)   |
| LoRa Receive Sensitivity | Down to -142 dBm (conducted)  |
| LoRa Software            | Standard and LRR Actility   |
| COMMUNICATION            |   |
| Standard Interfaces      | 1 WAN RJ45 10/ 100Mbps (w/ passive PoE capability), 1 SIM card slot (2FF), 1 DC jack in/ 1 terminal block   |
| Optional Wi-Fi           | 802.11b/g/n, 1x1, 2.4GHz  |
| Optional 4G LTE          | LTE Cat 4 or Cat M1/NB2   |
| Antenna Type             | 1 x external LoRa antenna, and option antennas are 1 x External antenna for LTE, 1 x external Wi-Fi antenna |
| Operating Temperature    | -10~55°C  |
| Storage Temperature      | -20~60°C  |
| Power Supply             | DC 12 V/1.5 A-Power Adaptor/ DC 10~30V 3-Pin Connector Power supply/ Passive PoE 10~30V                     |
| Housing                  | Profile Aluminum, IP20  |
| Dimensions               | L:122 x W:135 x H:36mm  |
| Weight                   | ≤ 450g  |

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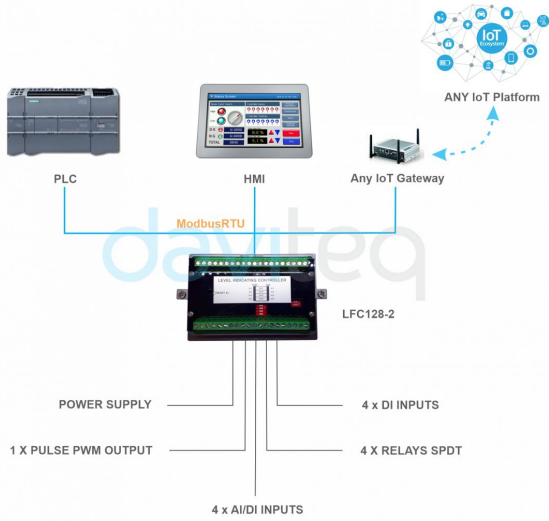
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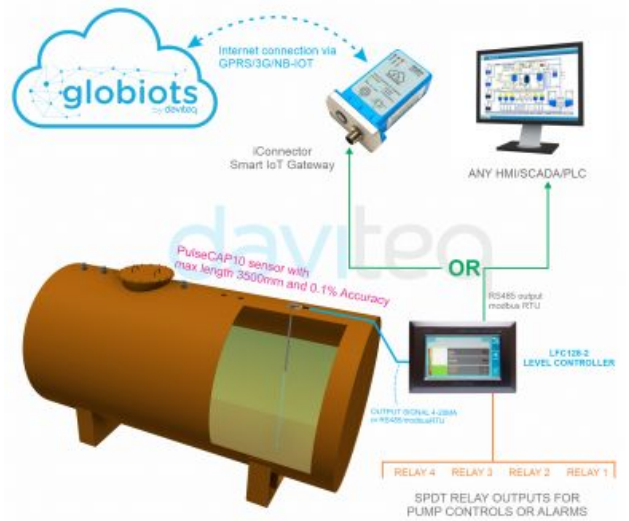
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INDICATE LEVELS for Any PLC, HMI or IOT PLATFORM



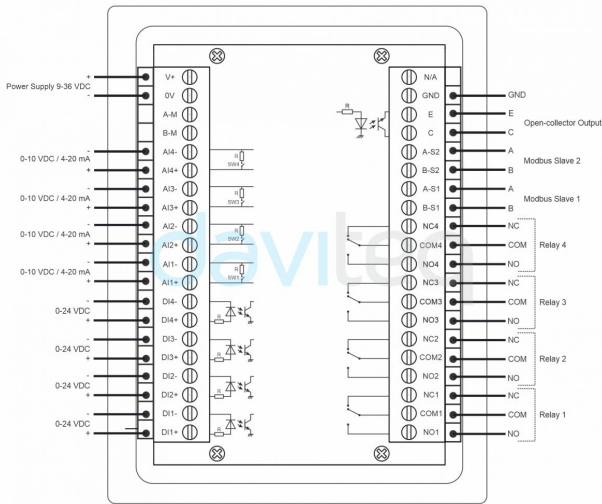
LFC128-2-H3.PNG

Connect with PulseCAP10 on STATIONARY TANK



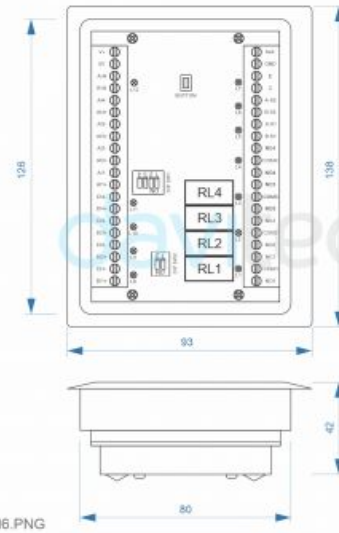
LFC128-2-H4.PNG

TERMINAL ASSIGNMENT



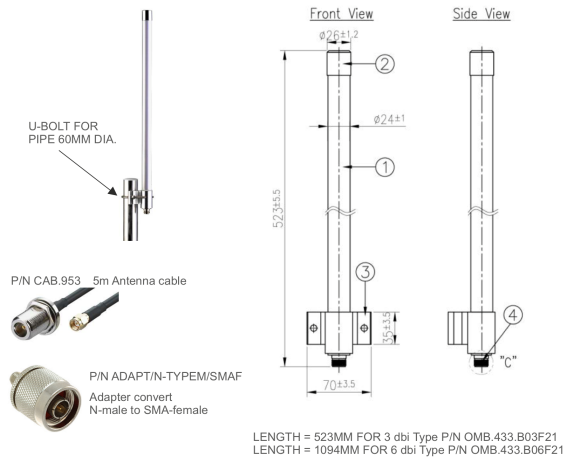
LFC128-2-H5.PNG

DIMENSION DRAWINGS (UNIT: mm)



LFC128-2-H6.PNG

HIGH GAIN OMNI ANTENNA 3DBI & 6DBI



WS433-BLEX-H7.PNG

USB-RS485 CONFIGURATION CABLE




WS433-BLEX-H8.PNG


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## Ordering Information

| ITEM CODE        | DESCRIPTION  |
|------------------|--|
| GWIND-9          | LoRaWAN Gateway, indoor IP20, Frequency 9XXMHz, included antenna, POE Ethernet, terminal for DC 10-30V   |
| GWIND-9-WF       | LoRaWAN Gateway, indoor IP20, Frequency 9XXMHz, Wi-Fi 802.11b/g/n, 2.4GHz, included antenna, POE Ethernet, terminal for DC 10-30V                            |
| GWIND-9-EC25-AU  | LoRaWAN Gateway, indoor IP20, Frequency 9XXMHz, LTE Cat 4 for Australia-Asia-South America, SIM slot, included antenna, POE Ethernet, terminal for DC 10-30V |
| GWIND-9-EC25-A   | LoRaWAN Gateway, indoor IP20, Frequency 9XXMHz, LTE Cat 4 for North America, SIM slot, included antenna, POE Ethernet, terminal for DC 10-30V                |
| GWIND-8          | LoRaWAN Gateway, indoor IP20, Frequency 8XXMHz, included antennas, POE Ethernet, terminal for DC 10-30V  |
| GWIND-8-WF       | LoRaWAN Gateway, indoor IP20, Frequency 8XXMHz, Wi-Fi 802.11b/g/n, 2.4GHz, included antennas, POE Ethernet, terminal for DC 10-30V                           |
| GWIND-8-EC25-EUX | LoRaWAN Gateway, indoor IP20, Frequency 8XXMHz, LTE Cat 4 for EMEA and Asia, SIM slot, included antennas, POE Ethernet, terminal for DC 10-30V               |

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