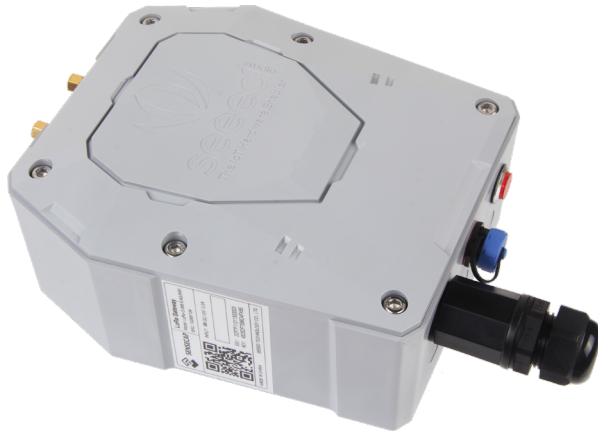




### LoRaWAN Gateway



#### Features

- Support LoRaWAN™(\*) protocol
- High-performance Cortex A8 1GHz processor
- Support multiple ISM bands: CN470, EU868, US915
- Support multiple methods to access the network
- Ultra-wide-distance transmission
- Support 8 RX, 1 TX transceiver
- IP66 enclosure, suitable for outdoor applications
- Rapid installation and deployment
- Provide a variety of cloud services, easy to use

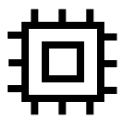
#### Applications

- Smart Agricultural
- Smart Building and Industrial Control
- Environmental Monitoring
- Other Wireless Sensing Applications

#### Introduction

SenseCAP LoRa Gateway is based on LoRaWANTM protocol, applicable for low-power, long-distance environmental data collection and monitoring in scenarios such as smart agriculture and smart city etc. As the central device of the LoRa network, the gateway is used for collecting data from different Sensor Probes and transmit the data to the cloud platform via 4G or Ethernet cable. Equipped with a high-performance processor and telecom-operator-level LoRa chip, this gateway ensures stable and high performance in large-scale network. The gateway is designed with IP66-protection-level enclosure, making it suitable for industrial applications in outdoor severe environment.

#### Device Highlights



Cortex A8 processor, Linux system, stable and reliable



Support LoRaWAN™ protocol Class A



Provides a variety of cloud services and data API interfaces



Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in urban scene



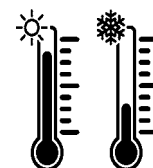
Support multiple ISM bands: CN470, EU868, US915



4G, Ethernet multiple network access, suitable for multiple scenes



Industrial grade protection: IP66 enclosure, suitable for outdoor applications



Operating temperature -40°C to +70°C

## Specifications

### Product Model

Model	Region
LoRa-G-470-E/4G	Asia(China)
LoRa-G-868-E/4G	European, Africa, Asia(India etc.)
LoRa-G-915-E/4G	North America, South America, Oceania,Asia(Japan, Korea, Thailand, etc.)

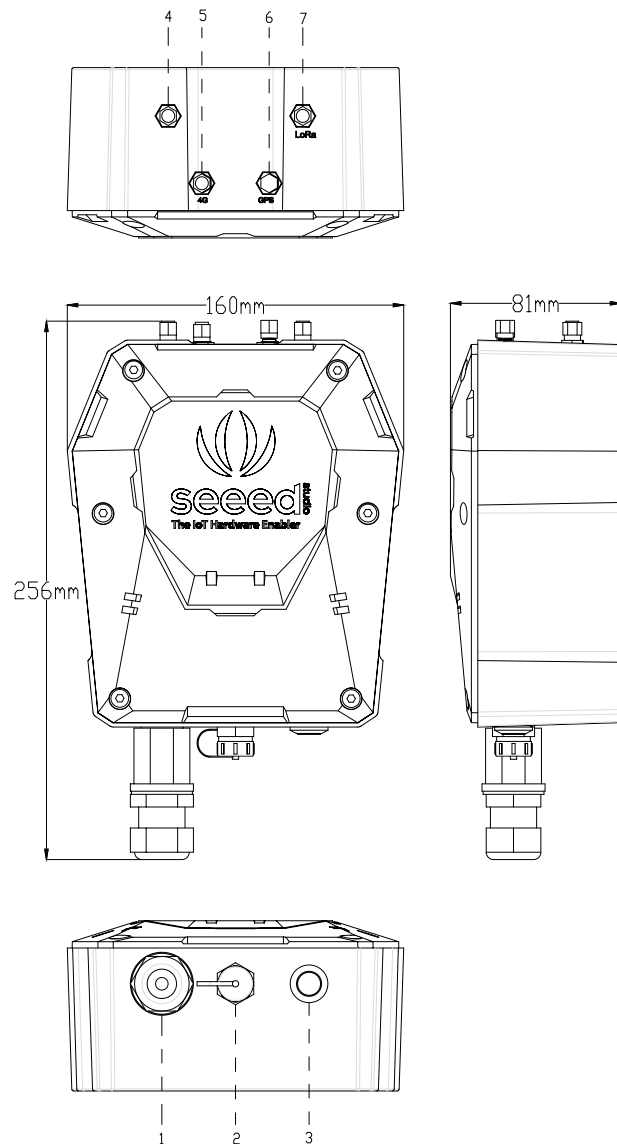
### LoRa Parameters

Channel Plan	470~510MHz	863~870MHz	902~928MHz
Power Output	25dBm	27dBm	26dBm
Sensitivity	140.5dBm (SF12BW125)	139.5dBm (SF12BW125)	141.5dBm (SF12BW125)

### General Parameters

CPU	TI AM3358 Cortex-A8 1GHz
System	Linux Debian
RAM	DDR3 512MB
Memory	4GB eMMC
Ethernet	100Mbps FE (RJ-45)
4G Frequency	B3/B7/B20/GSM900/GSM1800 (Europe/APAC) B2/B4/B12(AT&T, T-Mobile) B4/B13(Verizon) LTE Speed Category: Cat.1 LTE Speed: down link 10.3Mb/s, up link 5.2Mb/s
Antenna	LoRa Antenna *1, 4G Antenna *1
LED Indicator	Indicating network condition (online/ offline)
Grounding	Reserved 1 screw hole for GND
Power Consumption	3.6W
Power Supply	DC 12V/1.5A
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC+PBT
Operating Temperature	-40 °C to +70 °C
Operating Humidity	0 to 100 %RH (not solid condition)
Installation Method	On wall or pole
Device Weight	840g

## Device Dimensions



1. Ethernet Port
2. Power Connector
3. LED
4. Reserved
5. 4G Antenna Connector
6. Reserved
7. LoRa Antenna Connector