



**SenseCAP LoRaWAN®
Outdoor Gateway (EU863-870)
LoRa-G-868-E/4G**





PRODUCT DESCRIPTION

SenseCAP LoRa Gateway is based on LoRaWAN™ 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 environments.

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
- Easy-to-use cloud services

APPLICATIONS

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



SPECIFICATIONS

PRODUCT MODEL

Model	LoRa-G-868-E/4G
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LORAWAN SPECIFICATIONS

Channel Plan	863~870MHz
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LoRaWAN Max Transmitted Power	27 dBm
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LoRa Sensitivity	139.5dBm @SF12 BW=125KH
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Protocol	LoRaWAN v1.0.3 Class A
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GENERAL PARAMETER

CPU	TI AM3358 Cortex-A8 1GHz
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System	Linux Debian
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Memory	4GB eMMC
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Cable Length	5 Meters
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Ethernet	100Mbps FE (RJ-45)
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	B3/B7/B20/GSM900/GSM1800 (Europe/APAC)
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	B2/B4/B12(AT&T, T-Mobile)
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4G Frequency	B4/B13(Verizon)
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LTE Speed Category: Cat.1

LTE Speed: down link 10.3Mb/s, up link 5.2Mb/s

Ethernet	100Mbps FE (RJ-45)
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GENERAL PARAMETER

Antenna	LoRa Antenna *1,4G Antenna *1
LED Indicator	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

INSTALLATION

Installation Method	Wall or pole mounting
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DEVICE WEIGHT

Weight	840g
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