

INDUSTRIAL PRODUCT DATASHEET

# SenseCAP Outdoor Gateway

## - LoRaWAN EU868MHz

High-performance, IP66 LoRaWAN EU868MHz outdoor gateway with 4G/Ethernet backhaul and 10km line-of-sight range for smart agriculture, building, and environmental monitoring.

SKU

102991154

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PRICE

\$399.00(Excl. VAT)



# Overview



The SenseCAP Outdoor Gateway - LoRaWAN EU868MHz features a high-performance Cortex A8 1GHz processor, Linux system, and supports LoRaWAN Class A for ultra-low-power SenseCAP sensors, with 8 RX and 1 TX transceiver at up to 27dBm transmit power. It offers wide-area connectivity via 4G and Ethernet, ultra-long transmission range (10km line of sight, 2km urban), IP66 protection, and operates from -40°C to 70°C, ideal for rapid outdoor deployment.

# Key Features

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- High-performance Cortex A8 1GHz processor, Linux system.
- Support LoRaWAN protocol Class A, support ultra-low-power SenseCAP Sensor
- Support 8 RX, 1 TX transceiver, maximum transmit power 27dBm
- Support multiple ISM bands: CN470, EU868, US915, AU915, AS923
- Support multiple methods to access the network: 4G, Ethernet
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in the urban scene
- Industrial grade protection: IP66 enclosure, temperature -40°C~70°C, suitable for outdoor applications
- Easy deployment, and rapid provisioning (see the "how to install" video below)

# Product Gallery



## Specification

|                    |                          |
|--------------------|--------------------------|
| General Parameters |                          |
| Product Model      | Long Range -G-868-E/4G   |
| CPU                | TI AM3358 Cortex-A8 1GHz |

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                  | Linux Debian                                                                                                                                               |
| RAM                     | DDR3 512MB                                                                                                                                                 |
| Memory                  | 8GB eMMC                                                                                                                                                   |
| Channel Plan            | 863~870MHz                                                                                                                                                 |
| Long Range Power Output | 25dBm                                                                                                                                                      |
| Long Range Sensitivity  | -139.5dBm (SF12BW125)                                                                                                                                      |
| Ethernet                | 100Mbps FE (RJ-45)                                                                                                                                         |
| 4G Band                 | LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28<br>LTE-TDD: B38/B39/B40/B41<br>WCDMA: B1/B2/B4/B5/B6/B8/B19<br>GSM: 850/900/1800/1900MHz     |
| 4G Features             | Support non-CA Cat 4 FDD and TDD<br>LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL)<br>LTE-TDD: Max 130Mbps (DL), Max 30Mbps (UL)                               |
| UMTS Features           | Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA<br>DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL)<br>WCDMA: Max 384Kbps (DL), Max 384Kbps (UL) |
| Long Range Antenna      | 2.5dBi gain / Vertical polarization / Omni-directional / SMA-J connector                                                                                   |
| 4G Antenna              | 0-4dBi gain / Linear polarization / Omnidirectional / SMA-J connector                                                                                      |
| LED Indicator           | Indicating network condition (online/ offline)                                                                                                             |
| Grounding               | Reserved 1 screw hole for GND                                                                                                                              |
| Power Consumption       | 3.6W                                                                                                                                                       |
| Power Supply            | DC 12V/2A                                                                                                                                                  |
| IP Rating               | IP66                                                                                                                                                       |
| UV Resistance           | anti-aging (from rain/sun exposure): UL746C F1                                                                                                             |
| Enclosure Material      | PC                                                                                                                                                         |
| Operating Temperature   | -40 °C to +70 °C                                                                                                                                           |
| Operating Humidity      | 0 to 100 %RH (non-condensing)                                                                                                                              |
| Installation Method     | Wall or pole mounting                                                                                                                                      |
| Device Weight           | 777g                                                                                                                                                       |
| Device Dimensions       | 256mm * 160mm * 81mm                                                                                                                                       |
| Certification           | CE, FCC, RoHS                                                                                                                                              |

# Applications

- **Smart Agriculture**
- **Smart Building**
- **Environmental Monitoring**
- **Other Wireless Sensing Applications**

## Part List

| Part List |                            |         |
|-----------|----------------------------|---------|
| 1         | Long Range Gateway         | x1      |
| 2         | Long Range Antenna         | x1      |
| 3         | 4G Antenna                 | x1      |
| 4         | Allen Hex Key              | x1      |
| 5         | Mounts                     | x4      |
| 6         | Power Adapter              | x1      |
| 7         | Power Extension Cable (5M) | x1      |
| 8         | Ferrules / Aluminum piece  | x 2 / 2 |
| 9         | M5 Self-drilling Screws    | x8      |

| *Optional Antenna |                                    |    |
|-------------------|------------------------------------|----|
| 1                 | Long Range Fiberglass Omni Antenna | x1 |
| 2                 | Antenna Lightning Protector        | x1 |
| 3                 | Long Range Antenna Brackets        | x1 |

## Compliance & Logistics



|          |            |
|----------|------------|
| HSCODE   | 8517629990 |
| USHSCODE | 8517620010 |
| UPC      |            |
| EUHSCODE | 8517180000 |
| COO      | CHINA      |

# Resource Links

- <https://www.seeedstudio.com/LoRaWAN-Gateway-EU868-p-4305.html>
- [SenseCAP LoRaWAN Gateway Datasheet](#)
- [SenseCAP LoRaWAN Gateway User Manual](#)
- [LoRaWAN Gateway and Wireless Sensor Catalog V1.7](#)
- [SenseCAP LoRaWAN Sensor User Manual V1.1](#)
- [SenseCAP Product User Guide\(LoRaWAN Series\) V1.3](#)
- [SenseCAP Document Center](#)
- [FCC Certificate](#)

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