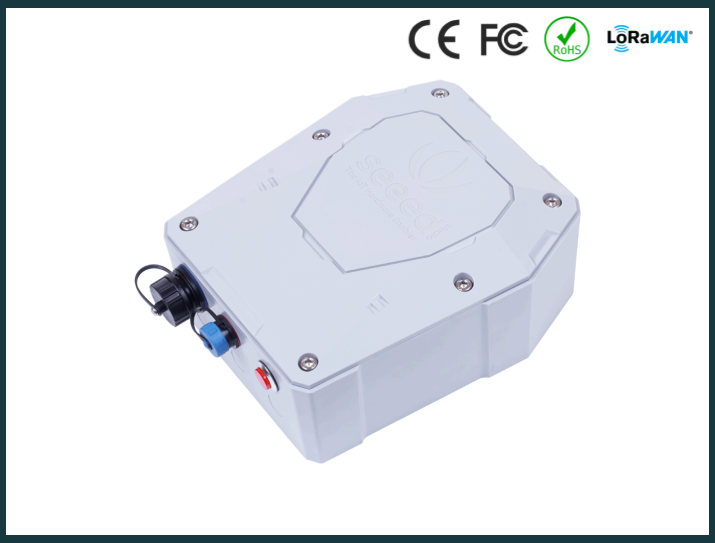
seeed studio

INDUSTRIAL PRODUCT DATASHEET

SenseCAP Outdoor Gateway - LoRaWAN US915MHz

SenseCAP Outdoor Gateway - LoRaWAN US915MHz: industrial-grade LoRaWAN connectivity with multi-band support, long-range transmission, and flexible network access for smart agriculture, smart building, environmental monitorin...

SKU	UPDATED	PRICE
102991155	2026-10-23 08:42:49	$399.00(Excl. VAT)



Overview



The SenseCAP Outdoor Gateway - LoRaWAN US915MHz is a high-performance LoRaWAN gateway featuring a Cortex A8 1GHz processor, Linux system, Class A support, 8 RX/1 TX transceiver (max 27dBm), and multi-band support (CN470, EU868, US915, AU915, AS923). It offers 4G/Ethernet network access, 10km line-of-sight and 2km urban transmission, IP66 industrial-grade protection with -40℃~70℃ operating temperature, and easy deployment for smart agriculture, smart building, environmental monitoring, and other wireless sensing applications.

Key Features

- 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 urban scene
- Industrial grade protection: IP66 enclosure, temperature -40℃~70℃, suitable for outdoor applications
- Easy deployment, and rapid provisioning (see the "how to install" video below)

Product Gallery

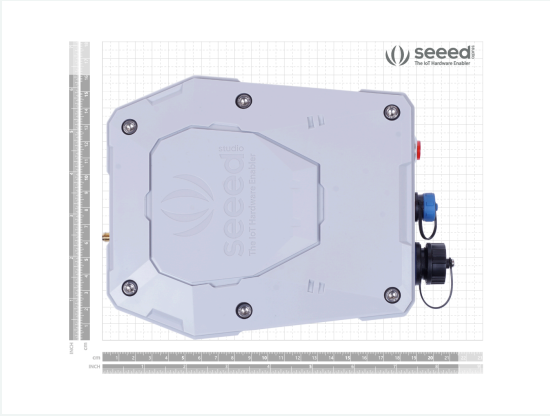












Specification

General Parameters	
Product Model	Long Range -G-915-E/4G
CPU	TI AM3358 Cortex-A8 1GHz

System	Linux Debian
RAM	DDR3 512MB
Memory	8GB eMMC
Channel Plan	902~928MHz
Long Range Power Output	25dBm
Long Range Sensitivity	-139dBm (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 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz
4G Features	Support non-CA Cat 4 FDD and TDD LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL) LTE-TDD: Max 130Mbps (DL), Max 30Mbps (UL)
UMTS Features	Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) 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 ℃ to +70 ℃
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	Zip Ties	x2
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

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/LoRaWAN-Gateway-US915-p-4306.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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