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Wireless Smart Agriculture Kit – Greenhouses - EU868

LoRaWAN-enabled smart agriculture kit for greenhouses with long-range transmission, 6+ year battery life, and IP66 durability.

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Overview



The Wireless Smart Agriculture Kit – Greenhouses - EU868 is a LoRaWAN (Class A) solution offering ultra-wide transmission up to 10km, battery life ≥6 years, and IP66-rated components for reliable outdoor use. It enables rapid deployment, flexible cloud integration via Open API, and data-driven management to lower costs and increase yields.

Key Features

Features:

- Support LoRaWAN protocol Class A
- High reliability and stability
- Ultra-wide-distance transmission: 10km in line of sight , 2 km in urban scenes
- Battery life ≥ 6 years
- All parts are certified IP66 and suitable for outdoor applications
- Rapid installation and deployment
- Flexible cloud services with Open API for further development

Problem Solving by the SenseCAP Greenhouse Kit :

- Data-driven decisions for more efficient management
- Lower the inputs of manpower, resources while increasing the yield
- Precise and stable data for data analysis and downlink command
- Robust for long-term use, lower the overall costs
- Ready-to-use solution, scalable and duplicable for different scenario.

Apart from this kit, you can also deploy a **Seeed SenseCAP all-in-one industrial grade smart weather station** outside the greenhouse for collecting the parameters of air temperature and humidity, barometric pressure, light intensity, CO2, wind direction, and rain volume.

Greenhouses deployed by Seeed SenseCAP

Sweet Melon Greenhouse SenseCAP deplyment in Beihai

Yinhai District of Beihai City in Guangxi Zhuang Autonomous Region, with 18,000 hectares of arable land, has a farming population of 124,000, accounting for 53% of the district's total habitants. The local government decided to partner with Seeed to build a smart agriculture pilot project within their 200-hectare agricultural demonstration park.

(SenseCAP Sensors Deployed in the Greenhouse)

Monitoring Environmental Data for Growing Tropical Fruits in Shandong, Northern China.

In this case, farmers in Laiwu in Shandong Province embrace the initiative of "growing southern fruits in the north," in the National Smart Agriculture Industrial Park located in the county.

(Greenhouses in the Smart Agriculture Industrial Park in Laiwu, Shandong Province)

While Seeed SenseCAP provides the wireless sensor network solution to collect and monitor environmental data, our partner integrates SenseCAP solution with the controlling system to achieve the following goals:

- Automatically fertilize and irrigate the plants

- Automatically turn on the ventilation system
- Automatically manage the thermal blanket

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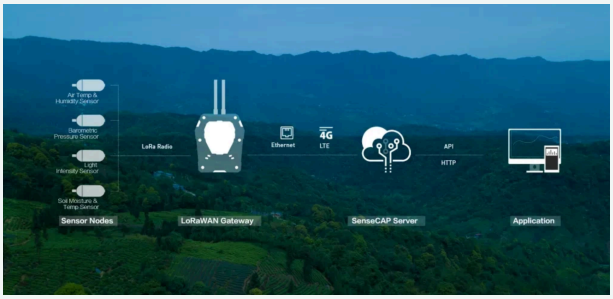
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Resource Links

- https://www.seeedstudio.com/Wireless-Smart-Agriculture-Kit-Greenhouses-p-4951.html

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