seeed studio

INDUSTRIAL PRODUCT DATASHEET

EU868 MHz Smart Agriculture Kit using Ready-to-Use Private LoRaWAN-in-a-Box

A complete LoRaWAN-in-a-Box solution for smart agriculture with long-range sensors and integrated low-code software for rapid IoT deployment.

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Overview



The EU868 MHz Smart Agriculture Kit using Ready-to-Use Private LoRaWAN-in-a-Box includes SenseCAP gateways and sensors with LoRaWAN Class A, up to 10 km line-of-sight transmission, IP66 enclosure, and Machinechat JEDI Pro Seeed Studio Edition for low-code IoT data management. It supports smart agriculture, greenhouse, irrigation, environmental monitoring, and other applications requiring reliable data logging and monitoring.

Key Features

- **Seeed Studio SenseCAP gateways and sensors**
  - Support LoRaWAN protocol Class A
  - Ultra-wide-distance transmission: up to 10 km line of sight
  - Support multiple ISM bands: EU868, US915, AU915, and AS923
  - Support Ethernet backhaul; cellular optional
  - Industrial grade protection:
    - IP66 enclosure
    - Suitable for outdoor applications
    - Operate in temperatures from -40°C to +70°C (up to +85°C for SenseCAP sensors)
  - High reliability and stability
  - Sensor battery life of 3+ years
  - Rapid installation and deployment
- **Machinechat JEDI Pro Seeed Studio Edition**
  - Affordable all-in-one low-code software designed specifically for commercial IoT deployments; focus on configuring not coding
  - Single application binary that runs as a service with integrated database and managed local data storage
  - Ingest data from Seeed Studio's SenseCAP LoRa sensors using the integrated Seeed Studio data collector (Chirpstack installation required)
  - Ingest data from virtually any device or sensor using integrated HTTP API server, TCP server, and MQTT broker
  - Configure dashboards to visualize real time and historical data with line, area, tile, radial, and data grid charts
  - Monitor data using integrated rules engine to trigger email notifications, SMS, or execute external scripts
  - Monitor whether devices and machines are online
  - Apply custom business logic to IoT data through data collector and action plug-ins
  - Modern browser-based user interface with SSL support and role-based user management
  - Supports up to 200 devices/sensors
  - Available for Windows, macOS, Linux, Raspberry Pi, and BeagleBone platforms
  - Virtual data sensor feature allows developers to simulate project deployment scenarios

Product Gallery



Applications

- In-house or commercial IoT projects that require data logging and monitoring
- Smart agriculture, greenhouse, landscaping, irrigation, precision farming
- Environmental applications: fire detection, cold storage, animal husbandry

Resource Links

- https://www.seeedstudio.com/EU-868-Mhz-Smart-Agriculture-Kit-using-Ready-to-Use-Private-LoRaWAN-in-a-Box-p-5225.html

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com