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INDUSTRIAL PRODUCT DATASHEET

Indoor & Outdoor Integrated Positioning

Indoor & Outdoor Integrated Positioning integrates IndoorPositioning with the SenseCraft Development Platform and an open-sourced Indoor Positioing Demo Application.

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Overview

The Indoor & Outdoor Integrated Positioning product features the ability to check out IndoorPositioning. It is supported by the SenseCraft Development Platform and an open-sourced Indoor Positioing Demo Application for building your own solutions.

Key Features

You can also check out our **IndoorPositioning**

Specification

Selection Criteria	Description
Quantity	Total number of tracked objects = Number of trackers required
Model	Select based on the reported data and development needs. Refer to the Tracker Selection Comparison Table.

Selection Criteria	Description
Quantity	A single Device covers a radius of 2-5 km. Estimate the quantity based on site area and obstacles.
Deployment Environment	Choose a device with the appropriate protection rating based on the gateway's deployment location (indoor/outdoor).
Power Supply	For outdoor locations without a power source, choose a gateway with a battery / solar power.
Network Conditions	Choose an Ethernet Gateway if a wired network is available. Choose a 4G Gateway for wireless or flexible deployments.
Frequency Band	[Required] Select the corresponding frequency band based on the project's country/region. Eg. EU - 863 , US - 915, Japan - 923

Indoor Positioning Accuracy	Effect	Suggested Deployment Density
Zone-level (~15m)	Determine if an object is in a specific room or area	Every 10-20 meters
Meter-level (2-5m)	Obtain precise indoor coordinates	Every 3-7 meters

Deployment Mode	Advantages	Requirements
SenseCraft Public Cloud (Recommended)	Simple, fast, maintenance-free, with API and open-source Software	Gateway requires internet access
Private On-Premises Deployment	Data is completely private and highly secure	Requires self-deployment of servers and certain technical skills

Applications

- **SenseCraft Development Platform:** SenseCraft provides a complete set of general-purpose tools compatible with the hardware, from device configuration and data reading to AI model deployment, making it easy to build your own solutions
- **Indoor Positioing Demo Application:** We have open-sourced a demo application for Indoor Positioing. It's ready to use out-of-the-box, and you can use it as a reference to build your own solution.

Resource Links

- https://www.seeedstudio.com/Indoor-Outdoor-Integrated-Positioning.html

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