**SIN-021 Highpower LoRa Tracker Datasheet V1.0**

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# Introduction

SIN-021 Highpower LoRa Tracker is a wireless remote positioning solution based on S7XS + nRF52832+MEMS+GPS+PA momdule, The SIN-021 Highpower LoRa Tracker uses the latest LoRaWAN1.0.2 protocol and supports LoRaWAN working mode, allowing users to conveniently link to the LoRaWAN network. it also content Bluetooth module.

SIN-021 Highpower LoRa Tracker is an open all source code products, users can find all the source code from the github. About parameter configuration, the user can use the source code to develop their own serial AT command, can also be set directly in the program.

SIN-021 Highpower LoRa Tracker application in industrial scennarios can be very easy to use..Built-in 3D acceleration chip, you can detect the user's motion status, determine the device is stationary. The device with the data visualization interface provided by the Cayenne platform, allowing users to easily know their own trajectory. View your location in real time.

# Feature

|  |  |
| --- | --- |
| Model Name | SIN-021 Highpower LoRa Tracker |
| Device size | 66\*51\*20mm |
| Power Supply | 3.7V |
| Hardware Interface | Support UART,I2Cinterface, |
| Battery | 500mAh (To be ordered individually) |
| Antenna Type | GPS,BLE(on board),LoRa(MMCX) |
| Power consumption | LoRa TX:550mA/3.3V  Sleep:0.5mA/3.3V |
| Operation temperature | -10℃ ~ +60℃ |
| Equipped with module | S7XS+nRF52832+GPS |
| LoRaWAN Version | V1.0.2 |
| Bluetooth Version | Support V5.0 |
| Network Activation way | ABP and OTAA |
| Open source code | Yes |
| Charging interface | +5V DC,Micro USB charger connector |

# 3.Ordering Information

|  |  |  |
| --- | --- | --- |
| Product | Describe | Activation |
| SIN-021 Highpower LoRa Tracker | LoRaWAN Region Support EU868,US915,AS923,AU915 | OTAA/ABP |

# 4.Contact information

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# 5.Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Change | Author |
| V1.0 | 2018-11-24 | First release | Farce.chen |