

# RAK811 TrackerBoard Datasheet V1.1

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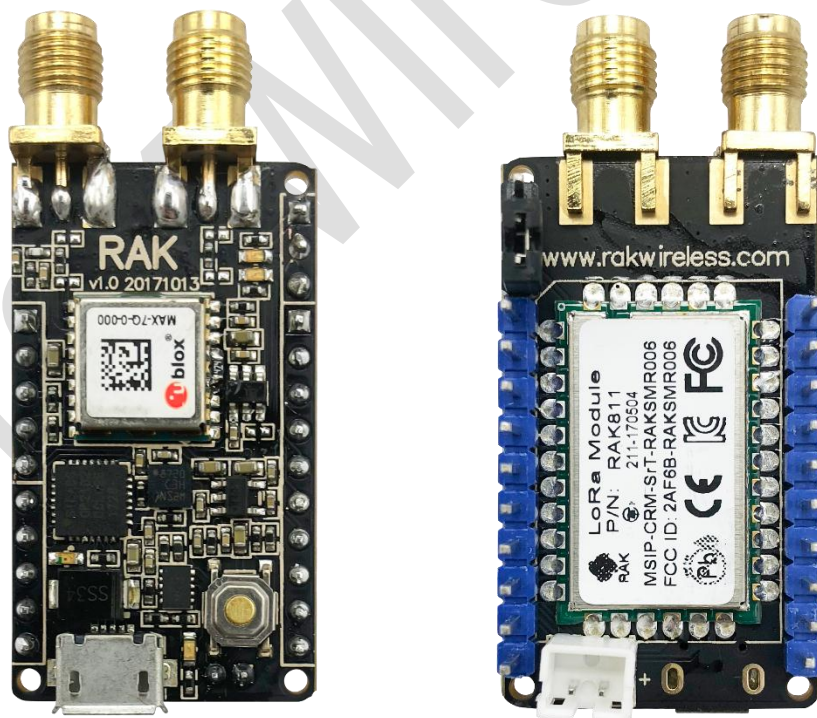
# 1. Introduction

RAK811 TrackerBoard is a wireless remote positioning solution based on RAK811 + GPS + MEMS. The RAK811 TrackerBoard uses the latest LoRaWAN1.0.2 protocol and supports LoRaWAN working mode, allowing users to conveniently link to the LoRaWAN network.

RAK811 TrackerBoard is an open all source code products, users can github find all the source code. 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.

RAK811 TrackerBoard battery-powered, greatly increasing the product's application scenarios, in the outdoors can be very easy to use. Built-in 3D acceleration chip, you can detect the user's motion status, determine the device is stationary, it will enter the low-power mode, reducing the overall power consumption and increase battery life. 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.

The difference between the RAK811 TrackerBoard and the RAK811 SensorNodeBoard is GPS, and the others are the same. How to use, you can refer to: [RAK811 TrackerBoard User Manual](#)

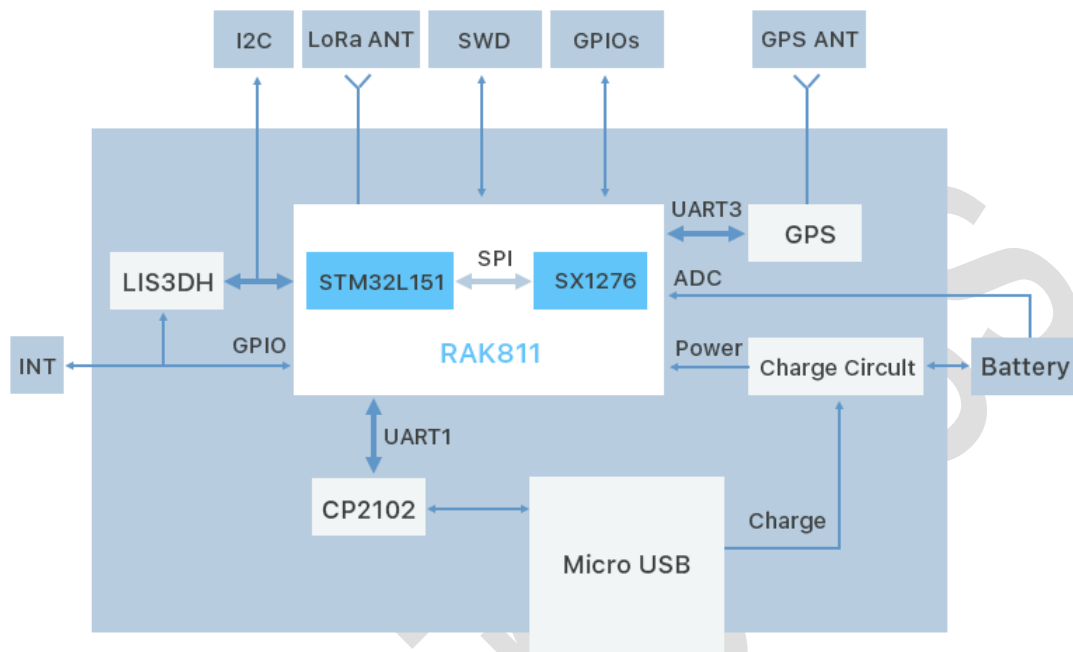


## 2. Feature

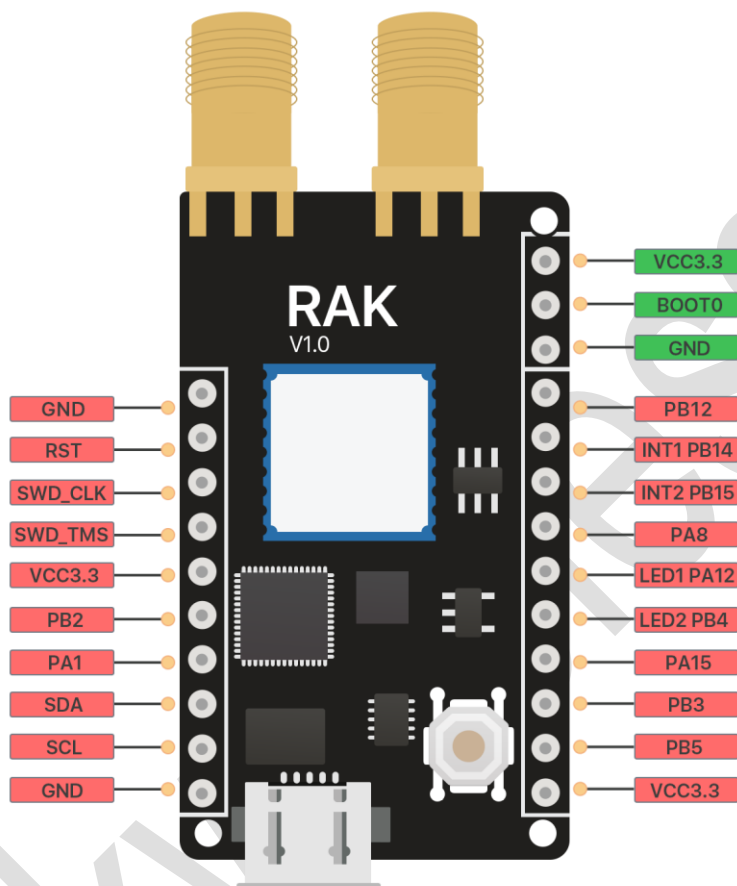
Model	RAK811 TrackerBoard
Device size	54mm x 22mm x17mm(With antenna interface)
Battery	2200mAh (To be ordered individually)
Battery working time	2 year(Chargeable)
Power consumption	TBD
Operation temperature	-20°C ~ 60°C
Working environment	Outdoor
Equipped with module	RAK811+GPS+MEMS
LoRaWAN Version	V1.0.2
Network Activation way	ABP and OTAA
Open source code	Yes
Charging interface	Micro USB

Note: the open source code link: [https://github.com/RAKWireless/RAK811\\_BreakBoard](https://github.com/RAKWireless/RAK811_BreakBoard)

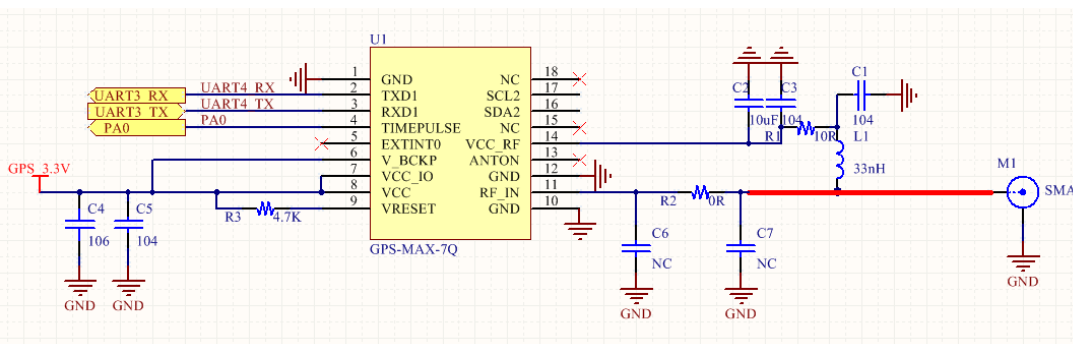
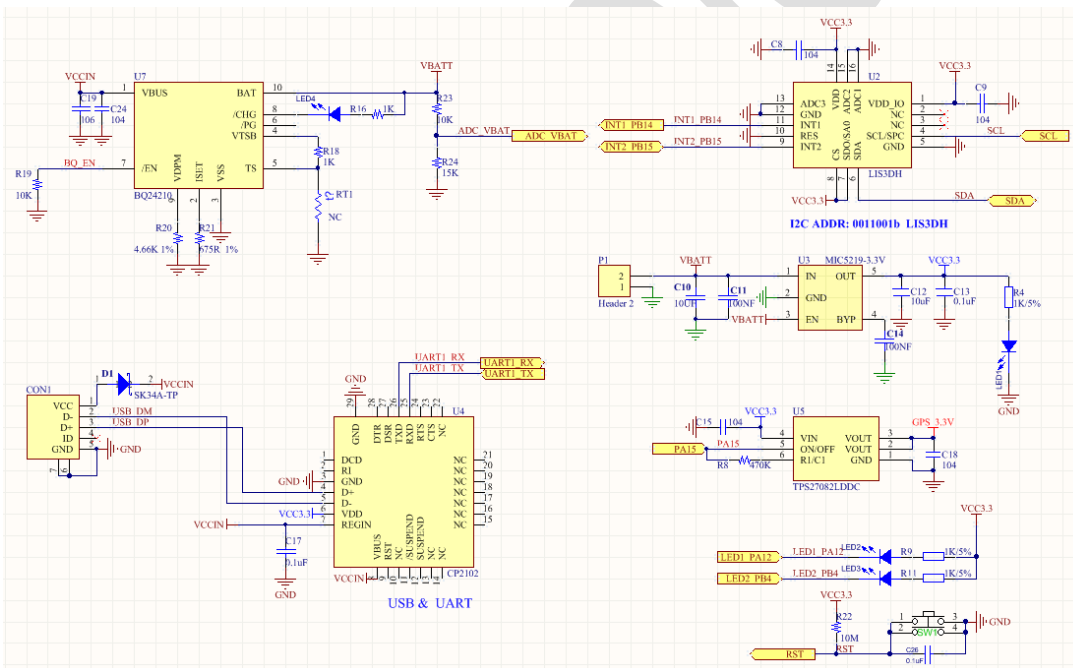
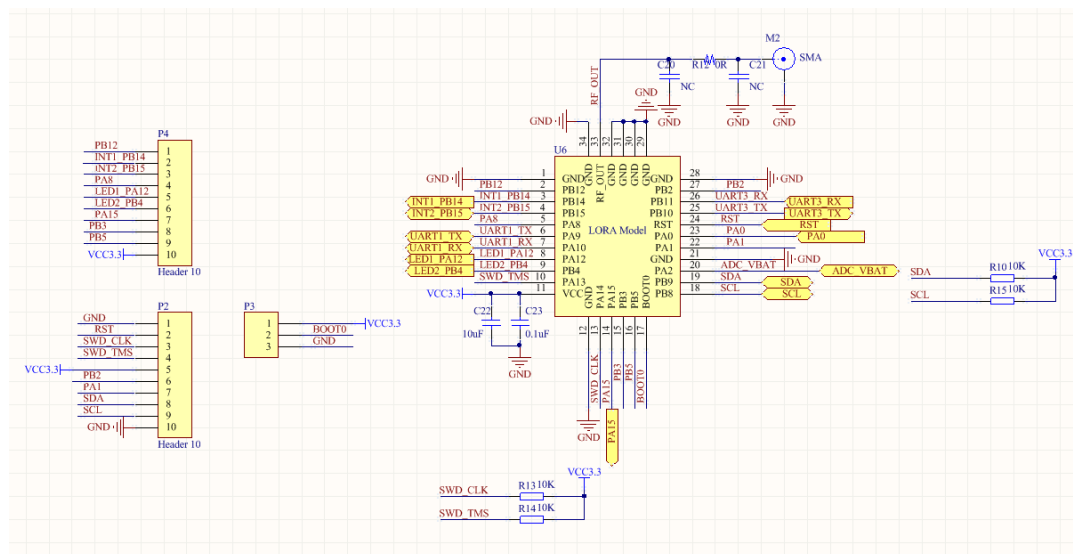
### 3. System Diagram



## 4. Pin definition



## 5. Hardware Schematics



## 6. Ordering Information

Product	Describe	Activation
RAK811 TrackerBoard	LoRaWAN Region Support EU868,US915,AS923,AU915, KR920,IN865	OTAA/ABP



## 7. Contact information

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## 8. Revision History

Version	Date	Change	Author
V1.0	2017-12-1	First release	Chace
V1.1	2018-01-10	Update picture	Chace