

ED-IOTHOTSPOT-PI4 REV1.0

INDOOR FULL HOTSPOT, POWERED BY HELIUM

INSTALL AT HOME AND GET HNT REWARDS

2022-01-12

EDA TECHNOLOGY CO.,LTD



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Revision History

Date	Version	Description	Note
2021-12-23	Draft	Initial release.	
2022-01-12	1.20220112	Update the Package List	

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Chapter 1 Overview

ED-IoTHotspot-Pi4 is a Helium Indoor Full Hotspot designed by EDATEC. By deploying it at your home or office, you can provide your city with miles of low-power network coverage for billions of devices and earn a new cryptocurrency, HNT.

1.1 Features

- Compatible with Helium LongFi™ to earn HNT
- Wider Coverage
 - Semtech SX1302 + SX1250 concentrator with wide range of coverage and low-power consumption
- High Performance
 - Quad-core, 1.5GHz ARM Cortex-A72 64-bit CPU, 2GB LPDDR4, 32GB storage
- Connectivity
 - Gig-Ethernet, Dual-band WiFi and Bluetooth 5.0 with external antenna
- Frequency Plans
 - model 868 MHz (EU868, RU864)
 - model 915 MHz (US915, AS923-1/2/3, AU915)
- Multi Antenna Options
 - Standard 2.5dBi antenna
 - Optional 3dBi / 5dBi / 8dBi antenna
- Remote Management
 - Easily manage with Helium app on iOS and Android
 - Managing & diagnosing from Remote Access Dashboard in LAN
- Self Diagnostic & Repair
 - OTA support enables automatic online upgrades, without any activation or monitoring operation
- Certified with CE / FCC

1.2 Product Models / Variants

Product Model	Product Name	Description
ED-IoTHotspot-Pi4-EU	Indoor Full Hotspot EU868	868 MHz (EU868, IN865, RU864) - this is suitable for EU, India, Russia and a variety of other countries
ED-IoTHotspot-Pi4-US	Indoor Full Hotspot US915	915 MHz (US915, AU915, KR920, AS923-1/2/3) - this is suitable for USA, Australia, New Zealand and lots of countries in South America and Asia.

Chapter 2 Quick Start Guide

2.1 What's in the box?

The product package should contain the following items:

- Indoor Full Hotspot
- An AC 12V@2A power adapter
- Wi-Fi/BT antenna marked with “2.4G/5.8G”
- 2.5dBi LoRa antenna marked with “868MHz” or “915MHz” for different models
- [Optional] 5.8dBi LoRa Fiberglass Antenna (Model 868MHz / 915MHz)
- Ethernet cable



Standard Configuration (NOTE: Only one power plug in the box – UK / US / EU / AU Optional)



Optional 5.8dBi LoRa Fiberglass Antenna (Model 868MHz / 915MHz)

2.2 Prepare and Power up your Hotspot

1. Carefully screw in the provided Wi-Fi/BT antenna and LoRa antenna
2. Find a suitable location for your Gateway (for optimal coverage we recommend placing the unit near a window and close to a power source).
3. If you are using ethernet connection, locate the ethernet port on the back of your gateway and securely insert ethernet cable.
4. Power the gateway with the included power adapter.
5. Allow the unit a few seconds to power on. The status light should be **WHITE** indicates that it's powered up

2.3 Understand the Status Light

The status light on the front of the hotspot can help you to verify various conditions:

Color	Indicator	State	Description
	WHITE	Powered-up	Once the hotspot is powered up, the LED will go WHITE to indicate the system is booting up
	GREEN	Connected to P2P network	GREEN indicates the hotspot is connected to Helium network. You should always in this state to miner HNT
	BLUE	Bluetooth Mode	Once you push the button on the front of the hotspot about 10 seconds, The hotspot will enter Bluetooth mode to allow you Andoid / iOS phone to connect to the hotspot
	YELLOW	Disconnected from P2P network	YELLOW indicates the hotspot is disconnected from the P2P network. Please check you network settings or login to the Dashboard for more information
	PURPLE	OTA	PURPLE indicates a new OTA is available and the hotspot is installing it
	RED	Error	RED indicates some errors occurs, maybe an OTA failed and miner software run into issues. Please login into the Dashboard for more information or perform a reset

2.4 Install Helium Hotspot App

The Helium app (available for iOS and Android) includes everything you need to on-board and maintain your Hotspot and view its activity. With the app, which also is your Helium wallet, you're able to do things like:

- Send and receive HNT and create Data Credits
- Add your Hotspot to the network and set your location
- Configure your Wi-Fi
- View your Hotspot's activity
- See where other Hotspots are located
- Run Discovery Mode

Scan the below QR code to install the Helium Hotspot App, or search '**Helium Hotspot**' on Google Play / App Store.

- [Hotspot App for iOS](#) on the iTunes App Store
- [Hotspot App for Android](#) on the Google Play Store
 - Or if you don't use Google Play, you can [download an APK](#) from the official AppCenter build.



2.5 Helium Wallet Account Security

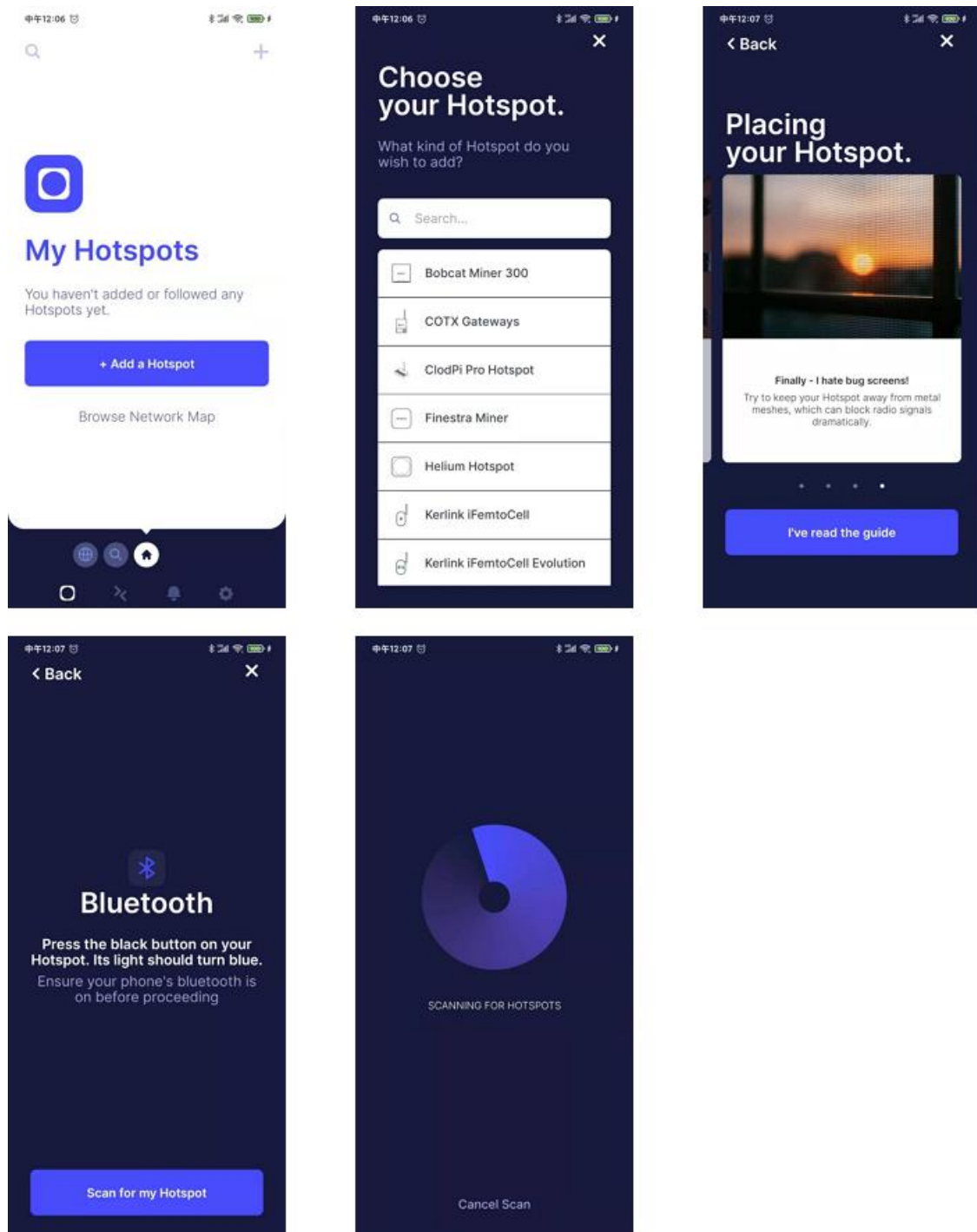
If this is your first time setup of your Helium wallet, you will be asked to input a seed phrase. It is a sequence of 12 words used to recover or transfer your accounts between phones.

NOTE:

It is important to remember these 12 words.

2.6 On-board your Hotspot and Set Location

Once you have set up your Helium wallet, press the key on the front of your hotspot for about 10 seconds, and then follow the on-screen instructions:



Chapter 3 Contact

- Email – sales@edatec.cn / support@edatec.cn
- Mobile – +86-18621560183
- Website – <https://www.edatec.cn>
- Address – Room 301, Building 24, No. 1661, Jialuo Road, Jiading District, Shanghai, China

3.1 About EDATEC

EDA Technology Co.,Ltd is located in Shanghai, it is one of Raspberry Pi's Global Design Partners. Our vision is to offer the hardware solutions for IoT, Industrial Control, Automation, Green Energy & Artificial Intelligence solutions based on Raspberry Pi Technology platform.

We provide the standard hardware solution, custom design & manufacturing services that accelerate the electronic product development and time to market.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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Specification

EUT Name	Indoor Full Hotspot EU868
Model No.	ED-IoTHotspot-Pi4-EU
Series Model No.	ED-IoTHotspot
Brand Name	----
AC Adapter(KSASB0241200200D5)	Input:100-240V~50/60Hz 0.6A Output:12V2A

EUT Operating temperature range: 0°C to 40° C .

The distance between user and device should be no less than 20cm

Declaration of Conformity

EDA Technology Shanghai Co., Ltd hereby declares that this Indoor Full Hotspot EU868 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

Max EIRP Output Power

Bluetooth(2402-2480MHz): 2.55dBm

Bluetooth LE(2402-2480MHz): -4.97dBm

802.11b/g/n(2412-2472MHz): 17.76dBm

802.11a/n/ac(5180-5240MHz): 17.26dBm

802.11a/n/ac(5745-5825MHz): 13.67dBm

LoRa: 863-870MHz: 12.0dBm



RoHS

A stylized icon of a map of Europe with an exclamation mark inside, indicating the countries where the product is compliant.	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK