

# Helium Kit explanation guide

## Warnings:

- 1) ONLY connect your miner through the POE power supply or MAP that was delivered with the miner! See separate manual about the assembly on the Telemetrieshop website.
- 2) Only connect your miner AFTER installing the antenna. Never power on the miner without having an antenna installed. See separate manual about the assembly on the Telemetrieshop website.

## Step 1: Download Helium app & create Helium Wallet.

### Not required if you purchased Helium Kit with management

Download the Helium app on android or iphone and create a new wallet. (not needed if you already have a helium wallet). See video instructions here:

<https://www.youtube.com/watch?v=ZHSD8YSf27w>

## Step 2: Onboard miner and put in address with good transmit scale

### Not required if you purchased Helium Kit with management

Open the Helium app and power on your miner through the mAP. Wait 1 minute for the miner to start up and in the Helium app on the home page press in the top right on the + button. Then choose hotspot "Merrylot hotspot V1" and continue to click until you can click on "scan for hotspot". Once scanned you can select the hotspot from the list and give in the address and the antenna gain you bought with the miner kit.

### Tips:

- If after the scan the app didn't find anything, try again.
- If onboarding doesn't work, restart the miner and restart your phone and try again
- You can select an address close to you with a better transmit scale. Often you can go up to 300m from the real address of your miner, more is possible in some situations.

## Step 3: Connect to miner and update & Fast sync

### Not required to do if you purchased Helium Kit with management

#### Case 1: Helium kit without options

Look up the IP address your miner received in your router.

On a computer or phone connected to the same network as the miner go to the IP address with your browser (use https:// not http://)

Here you can click on the different tabs and do the updates first (OTA first, then miner and then a fast sync).

### Case 2: Helium kit with vpn

Download on your computer or phone the app “wireguard”. Open up the profile you received by email from us and activate this profile.

Your computer or phone is now connected virtually to the same network as the miner. So you don’t need to be connected to the same network as the miner!

Go to the link provided by us by email.

Here you can click on the different tabs and do the updates first (OTA first, then miner and then a fast sync.

## **Step 4: Fix relayed situation**

**Not required to do if you purchased Helium Kit with VPN or management**

### Case 1: Helium kit without VPN or management

You need to do a port forwarding of port 44158 from your router to the miner. Your miner needs a fixed and unique IP address. Your modem needs a fixed public IP.

Tips:

If the public IP address of your router is changing every couple of months it is no issue. Uniqueness is more important than fixed.

You can check here if the port forwarding worked: <https://ismyportopen.com/> and give in your IP (of your internet connection, not of your miner) and the port 44158. It is not a 100% test.

Do not worry if on explorer is written: “relayed”. Explorer can take days to update this status.

If any issues you can find help on the Helium Discord channel or here: <https://helium.md/d/7-faq> or buy our VPN option.

### Case 2: in case you use a VPN device (with management or without)

You have automatically been assigned a unique IP address on the VPN server with the correct port forwarding! Do not worry!

## **Step 5: Connect kit, hang it high up and start to mine**

See our separate assembly guide on the Telemetryshop website.

## **Step 6: Track your miner performance & perform updates when required.**

**Not required to do if you purchased Helium Kit with management**

### Case 1: Helium kit without management

- A stable internet connection is required for good mining performances. Speed is less important than stability.
- Check regularly the Helium channel on discord for updates, bugs,...

- Connectivity: On [www.heliumstatus.io](http://www.heliumstatus.io) you can check if your miner has any connectivity issue and the ping times. Ping times should be lower than 100ms ideally. If you have the VPN option, your relayed status should always stay good.
- On explorer.helium.com you can check your HNT production. Daily production can vary a lot, but weekly production should be more or less constant except if the Helium network experiences issues. On the explorer you can also see your witnesses, which should not decrease significantly, otherwise it means most probably that you have an issue with your setup.  
If you want to have more witnesses installing it higher up will always help. Second step can be to buy a higher gain antenna.
- If mining activities stopped check the miner if it missed any update or if it needs a resync/restart/format. You can access it through its ip address on the local internet or through the wireguard app from anywhere if you took the VPN option. Also, a restart can help but do not restart the device too often.
- If you think your miner has an issue you need to open port 168 and contact browan through their website.

#### Case 2: Helium kit with management

- We will be doing all the checkups from your miners. We will check
  - Connectivity issues: we will ping the miner regularly and check the stability of the internet.
  - HNT production: we will track the HNT production and if we see anything abnormal do the required actions. We will also give you recommendations to improve your setup if we believe it is possible to increase the gains significantly.
  - Miner performance: we will track signal strength and noise and spot any degradation
  - We will be checking syncing status of the miner and do required actions if we see any issue
  - We will be performing the updates on your miner automatically
  - We will be contacting browan and open ports when we see any issue
  - We will be contacting you to help with clear instructions only when it is the last option.

### **Step 7: Convert HNT and send it to your wallet/credit card**

If you do not have a crypto wallet and credit card, we will be making an easy guide for you soon that can be found on the Telemetrieshop website.

Case 1: Helium kit without management: Not to do if you have the Helium Kit with management.

Check this video: <https://www.youtube.com/watch?v=IJnsvGbDH84>

Case 2: Helium kit with management:

We will be sending it directly on your wallet address with credit card linked to it. Check the guide above.