

# Helium Kit Assembly Guide

- **Note: Guide will be completed with more pictures in week of 7 March**

## Basis kit package content:

- 1) Assembled browan miner kit (including POE extractor, enclosure, bulkhead cable, miner, fixation materials)
- 2) POE power supply
- 3) Flat Ethernet cable of 10m.

## Optional:

- 1) 3, 5 or 8 dbi antenna + a piece of self-vulcanizing tape
- 2) MAP device

## Step 1: Finish the assembly

- Open with a flat screwdriver the miner kit.
- Connect the provided ethernet cable (or any other Ethernet cable)
- Pass ethernet cable through the cable gland. If you used a flat cable, use another round wire to fill the gap or put some hot glue or silicone or...
- Connect antenna to the miner kit. Do not screw it with force. Just make it hold a bit.
- Place the vulcanic tape as you see in this video: <https://www.youtube.com/watch?v=SpYCDKy4B0> . Stretch and wrap around connector on kit and antenna. It should look like this afterwards.

## Step 2: Connect to internet and power

There is only the option to connect to an ethernet port because we do not believe it is a good idea to connect the miner kit on WIFI.

- Connect the ethernet cable of the miner kit to the POE OUT / ETH 2 port (both names are possible)
- Connect the ethernet cable coming from your router, switch or repeater to the POE IN / ETH 1 / LAN port (all 3 names are possible)
- Connect the power cord to the POE device in case you didn't take the VPN option
- Connect the power supply of the MAP (NOT of the miner) to the MAP in case you took the VPN or management option

## Note:

- Take care with the use of power line and wifi repeaters. It can sometimes reduce performance at certain moments.

### Step 3: Install high up

- You can use different types of poles to connect the miner kit on.
  - Vertical Antenna pole attached to wall: example:  
<https://www.wimoodshop.nl/products/326/L-beugel+25+cm>
  - Vertical Antenna pole to put on a flat roof: example  
<https://www.wimoodshop.nl/products/290/Tegelvoet+0,75+meter>
  - Directly on a balustrade on a vertical pole
  - Directly on a balustrade on a horizontal pole through an extra L piece
  - ...
- We will not be detailing here how to install the pole itself.
- Screw the L piece on the enclosure left or right.
- Connect the L piece to a pole
- Pass cable inside. With flat cable it can pass almost all type of windows.

#### Note:

We really recommend installing it as high as possible. Lora signal can pass through some walls, but the signal will be getting lower with each wall it passes. So, the higher you are the more HNT it will make. Sometimes adding 2 meters to reach higher than the roofs of your neighbors can increase the HNT gains by 50%.



This is just example picture for the kit just for reference.

There is tape missing on the connectors,... New pictures will be added week of 7 March