Tomorrow I want to test the range of our fabulous LoRa system. And I want to compare it with the “ordinary and cheap RFM69HW module on the Whisper node. Both work on the same frequency range, and both use about the same output power. I am interested if LoRa has a bigger range and if the two will disturb each-other if they work on the same frequency. So, let’s get started.

The weather here in Switzerland currently is quite wet and therefore, I first have to finish my gateway. As my colleague Urs I use waste water piping for that purpose because it first is waterproof, and second quite cheap. An I use some 3D printed parts to fix the gateway and the power supply inside the pipe. Because I have a 240 volt outlet close to the area I want to place the gateway, I decided to use one of my small 5A power supply. The connection to the internet is done via Wi-Fi using a small dongle in the Raspby. So, I only have one opening for the SAM connector at the top and one for the 240 volt line at the bottom. Later on, I plan to measure humidity and temperature and add a fan which is started if one of these values show a need.

You will see, that the protection of the whisper boards will be simpler but still functional.

#118 Lora Wardriving: How far does it go? How far the RFM69HW?

Here I sit in my car and test the range of LoRa and a RFM69HW module. How far do they go?

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