How?

What you need

- End-Device
- Access to a Network
- Gateway
- Account
- Little programming skills

Register an account (free) on The Things Network.

https://account.thethingsnetwork.org/register

Log into TTN console.

Go to "Applications"

Add an application (Handler = ttn-handler-asia-se)

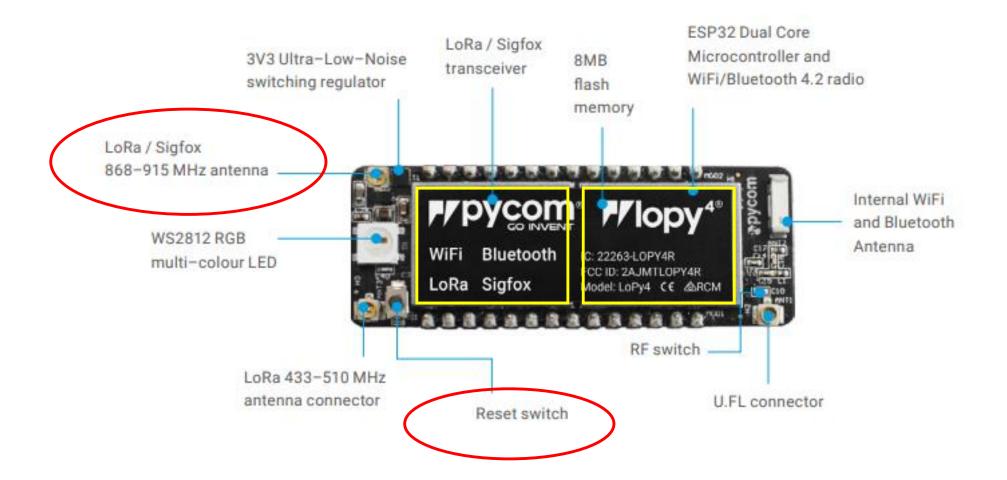
Add a device

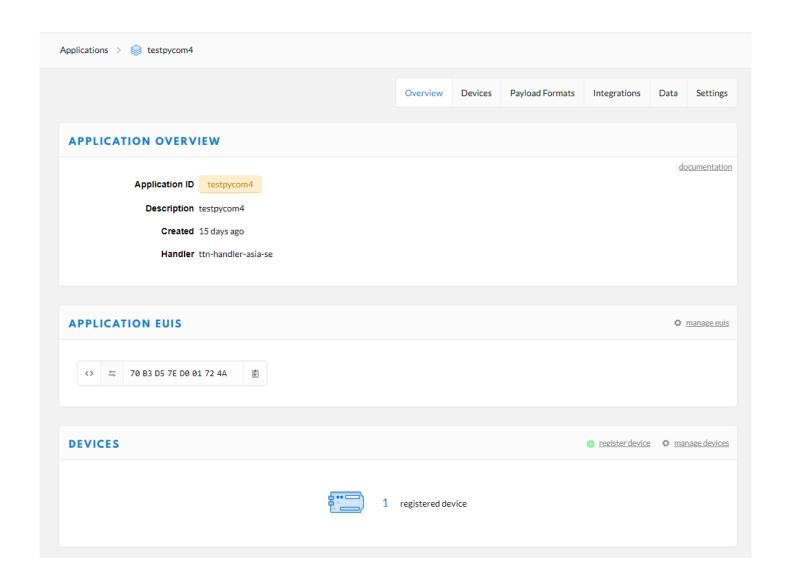
Make sure device settings has Activation Method = OTAA

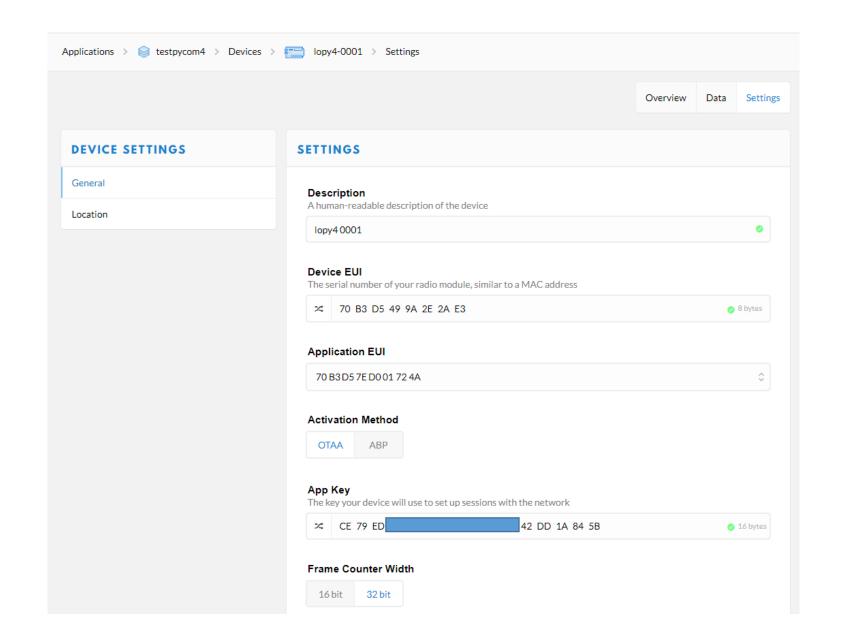
Record the **Application EUI** and **App Key** (these are needed in the code)

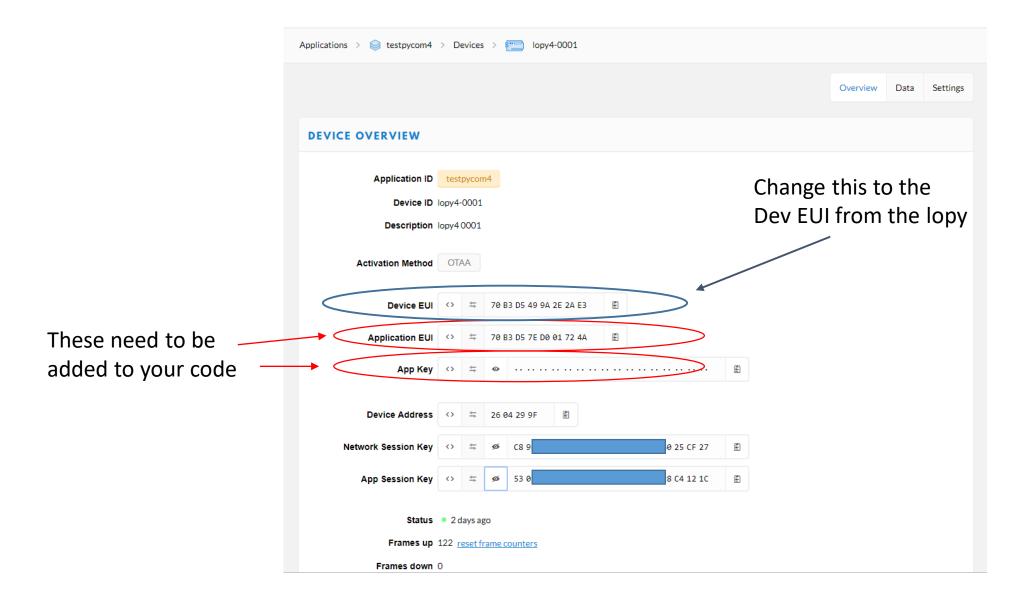
Then update the **Device EUI** in TTN (device settings). Depending on your LoPy4 device (see label), use one of the following:

SSID		Dev EUI
Lopy4 wlan ae18	=	70B3D5499B9CCEF6
Lopy4 wlan ae30	=	70B3D5499A2E2AE3
Lopy4 wlan 5c74	=	70B3D5499767F267
Lopy4 wlan 2e5c	=	70B3D54996EE30EF









Code:

https://github.com/rorygleeson/simpleLoraPycomLopy4

Download main.py to laptop

Modify the code. Update app_eui, app_key to correspond to your TTN account.

Connect lopy4 via USB to laptop or power with battery

Search for lopy4 WIFI network SSID (ensure its YOUR lopy4, WIFI SSID is as per label on the device)

Connect your laptop to this network with password = <u>www.pycom.io</u>

Setup FTP client

(Recommended FileZilla)

Upload main.py

FTP settings:

Host IP: 192.168.4.1

Login Type = normal,

User = micro

Password = python

Protocol = FTP

Encryption = Only use plain FTP (unsecure)

Upload main.py to LoPy via FileZilla

Reset LoPy

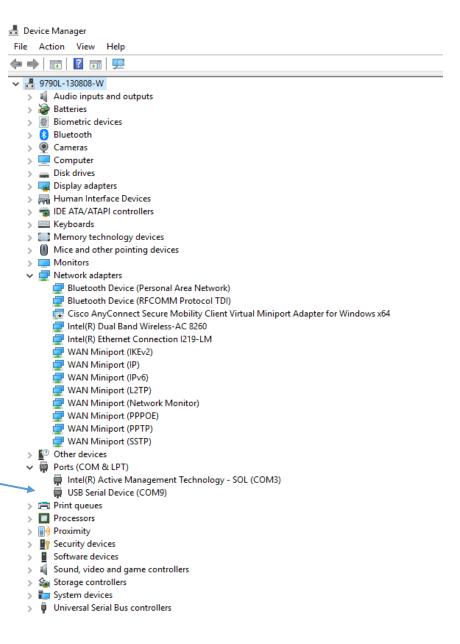
Verify a message is being sent every 10 seconds to the TTN.
(Do this by viewing the data in TTN, devices->data)

Serial Comms

Connect lopy4 via USB to laptop

 Verify it appears in Device Manager as COM port

Using COM9



• https://core-electronics.com.au/tutorials/getting-started-on-the-things-network-tutorial.html