[LoRa32 V2.1\_1.6 – LILYGO®](https://www.lilygo.cc/products/lora3)

Using this module to communicate with CibiCom’s network. Will be using Arduino IDE to configure this board ([espressif/arduino-esp32: Arduino core for the ESP32 (github.com)](https://github.com/espressif/arduino-esp32)). Using [MCCI LoRaWAN LMIC library - Arduino Reference](https://www.arduino.cc/reference/en/libraries/mcci-lorawan-lmic-library/) this lib we add mac layer implementation needed to talk with the application server.

Currently running into some issue regarding lib compatibility with the board I am using. Trying to fix that and connecting to cibicom’s application server.

[mcci-catena/arduino-lmic: LoraWAN-MAC-in-C library, adapted to run under the Arduino environment (github.com)](https://github.com/mcci-catena/arduino-lmic) – great source to understand more about LORAWAN implementation.

Some prerequisites

pip install pyserial ( as esp32 uses python files to upload code over serial)

older Arduino IDE version works fine.

Fix the ttgo module and use OTAA to active the device.