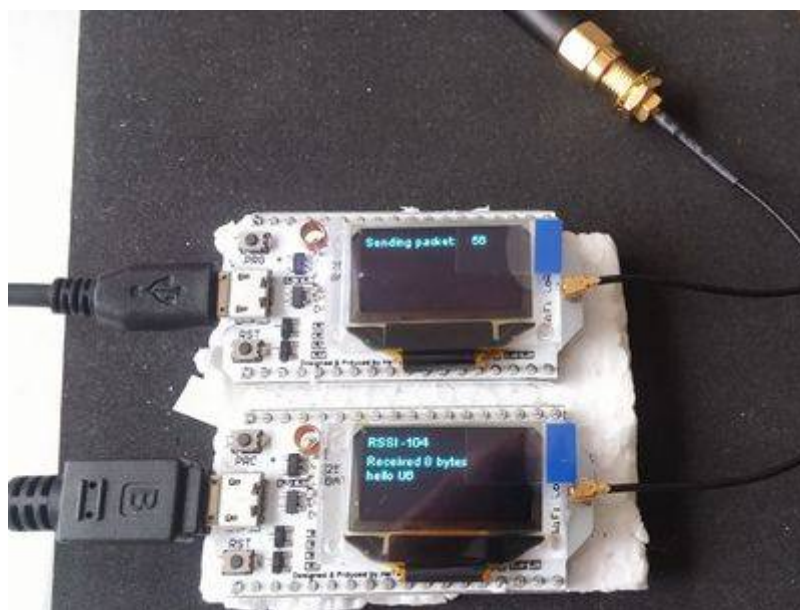


Esp32 - Lora



ESP32 (32 bits, 2 cores, 180 MHz)

1. -Connectivity
 1. -WiFi
 2. -BLE
 3. -LoRa (SX1276) 433MHz, 868MHz, 915MHz

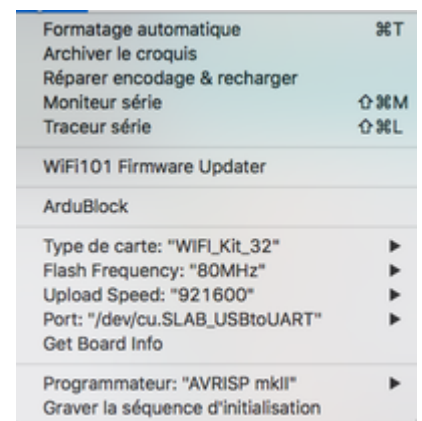
Brochage ESP32 Lora



Liens web

[ESP32 WiFi LoRa](#)[Diagram Pinout](#)[Github](#)[Esp32-Lora EN](#)[Exemples : Lora et LoraWan ESP32 FR](#)[ESP32 LORA TTGO OLED](#)

Configuration



Programmes

Carte1 (envoi)

Ouvrer et televerser le programme : Exemples > LoRaLibrary > OLED_LoRa_Sender

Carte 2 (Reception)

Ouvrer et televerser le programme : Exemples > LoRaLibrary > OLED_LoRa__Receiver

Ajouter la configuration LoRaWAN

Ajoutez les déclarations suivantes dans les 2 programmes.

[Lorawanconf.ino](#)

```
...
```

```
// LoRa API  
https://github.com/Heltec-Aaron-Lee/WiFi\_Kit\_series/blob/master/esp32/libraries/LoRa/API.md
```

```
// LoRaWAN Parameters
```

```

#define BAND      868100000 //you can set band here directly,e.g.
868E6,915E6
#define PABOOST false
#define TXPOWER 14
#define SPREADING_FACTOR 12
#define BANDWIDTH 125000
#define CODING_RATE 5
#define PREAMBLE_LENGTH 8
#define SYNC_WORD 0x34

void configForLoRaWAN()
{
    LoRa.setTxPower(TXPOWER);
    LoRa.setSpreadingFactor(SPREADING_FACTOR);
    LoRa.setSignalBandwidth(BANDWIDTH);
    LoRa.setCodingRate4(CODING_RATE);
    LoRa.setPreambleLength(PREAMBLE_LENGTH);
    LoRa.setSyncWord(SYNC_WORD);
    LoRa.crc();
}

String loraCfg = "Cfg:";
void displayLoRaConfig(int x, int y){
    loraCfg =
        "fr " + String(BAND/1000000, DEC)
        + " sf" + String(SPREADING_FACTOR, DEC)
        + " bw" + String(BANDWIDTH/1000, DEC)
        + " cr" + String(CODING_RATE, DEC) + "/4";
    display.drawString(x, y, loraCfg);
    loraCfg =
        + " pr" + String(PREAMBLE_LENGTH, DEC)
        + " pw" + String(TXPOWER, DEC)
        + " sw" + String(SYNC_WORD, HEX)
        ;
    display.drawString(x, y+10, loraCfg);
}

...

// should be done before LoRa.begin
configForLoRaWAN();

if (!LoRa.begin(BAND,PABOOST)) {
    display.drawString(0, 0, "Starting LoRa failed!");
    display.display();
    while (1);
}
displayLoRaConfig(0,20);
display.drawString(0, 0, "LoRa Initial success!");

...

```

```
display.display();
```

```
...
```

From:

<http://chanterie37.fr/fablab37110/> - **Castel'Lab le Fablab MJC de Château-Renault**

Permanent link:

<http://chanterie37.fr/fablab37110/doku.php?id=start:arduino:esp32b:lora>

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