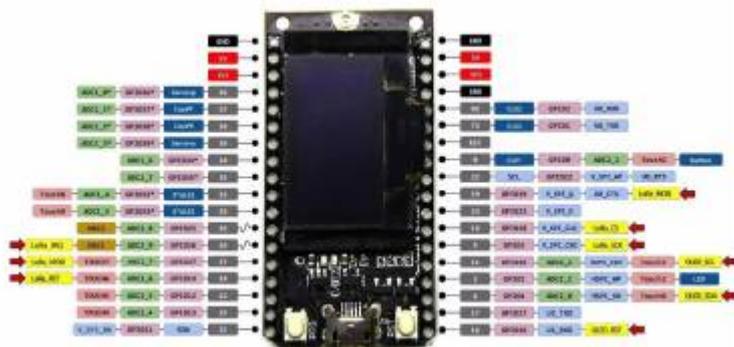
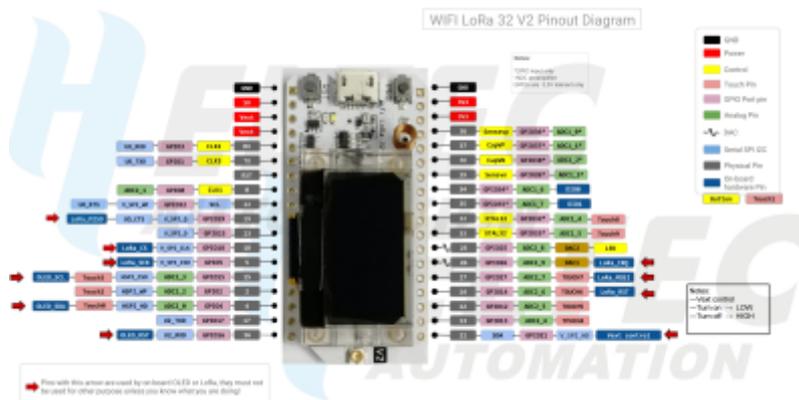


# ESP32 LORA

- [Wemos® SX1278 LoRa ESP32 Bluetooth WIFI 433MHZ amazon](#)
- [example 1 interesting](#)
- [example 2](#)
- [ESP32 development boards](#)
- [LoRa library](#)
- [coil antenna](#)



heltec esp32 lora



## Lora basic sender and receiver

- <https://www.alictronix.com/archives/860>

SX1278 433MHz

```
// re-define pin definitions of pins_arduino.h
#define PIN_SPI_SS      18 // ESP32 GPIO18 (Pin18) -- SX1276 NSS (Pin19) SPI
Chip Select Input
#define PIN_SPI_MOSI    27 // ESP32 GPIO27 (Pin27) -- SX1276 MOSI (Pin18) SPI
Data Input
#define PIN_SPI_MISO    19 // ESP32 GPIO19 (Pin19) -- SX1276 MISO (Pin17) SPI
Data Output
```

```
#define PIN_SPI_SCK 5 // ESP32 GPIO5 (Pin5) -- SX1276 SCK (Pin16) SPI  
Clock Input  
  
// non arduino pin definitions  
#define RST 14 // ESP32 GPIO14 (Pin14) -- SX1276 NRESET (Pin7) Reset  
Trigger Input  
#define DI00 26 // ESP32 GPIO26 (Pin15) -- SX1276 DI00 (Pin8) used by LMIC  
for detecting LoRa RX_Done & TX_Done  
#define DI01 33 // ESP32 GPIO33 (Pin13) -- SX1276 DI01 (Pin9) used by LMIC  
for detecting LoRa RX_Timeout  
#define DI02 LMIC_UNUSED_PIN // 32 ESP32 GPIO32 (Pin12) -- SX1276 DI02  
(Pin10) not used by LMIC for LoRa (Timeout for FSK only)
```

TO BUY:

- <https://www.cnx-software.com/2017/10/13/this-ttgo-board-combines-esp32-lora-radio-and-oled-display-for-just-10/pinout>

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