

# ESP32 LORA

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

```
// 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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