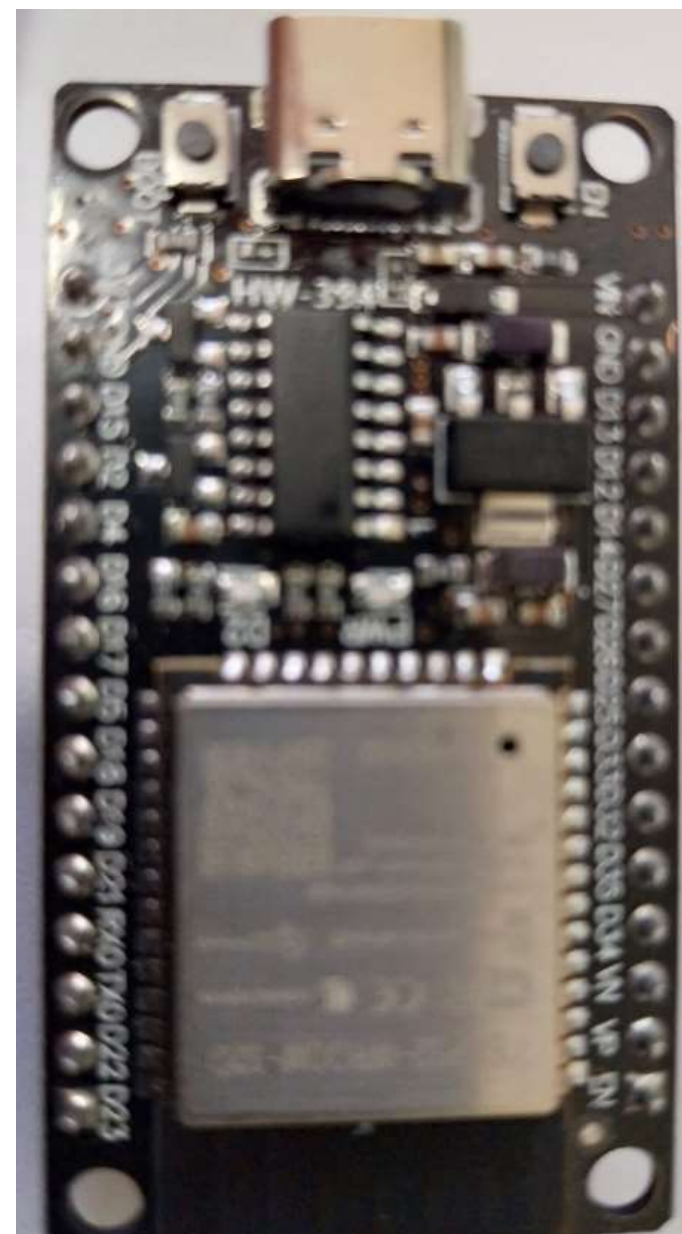
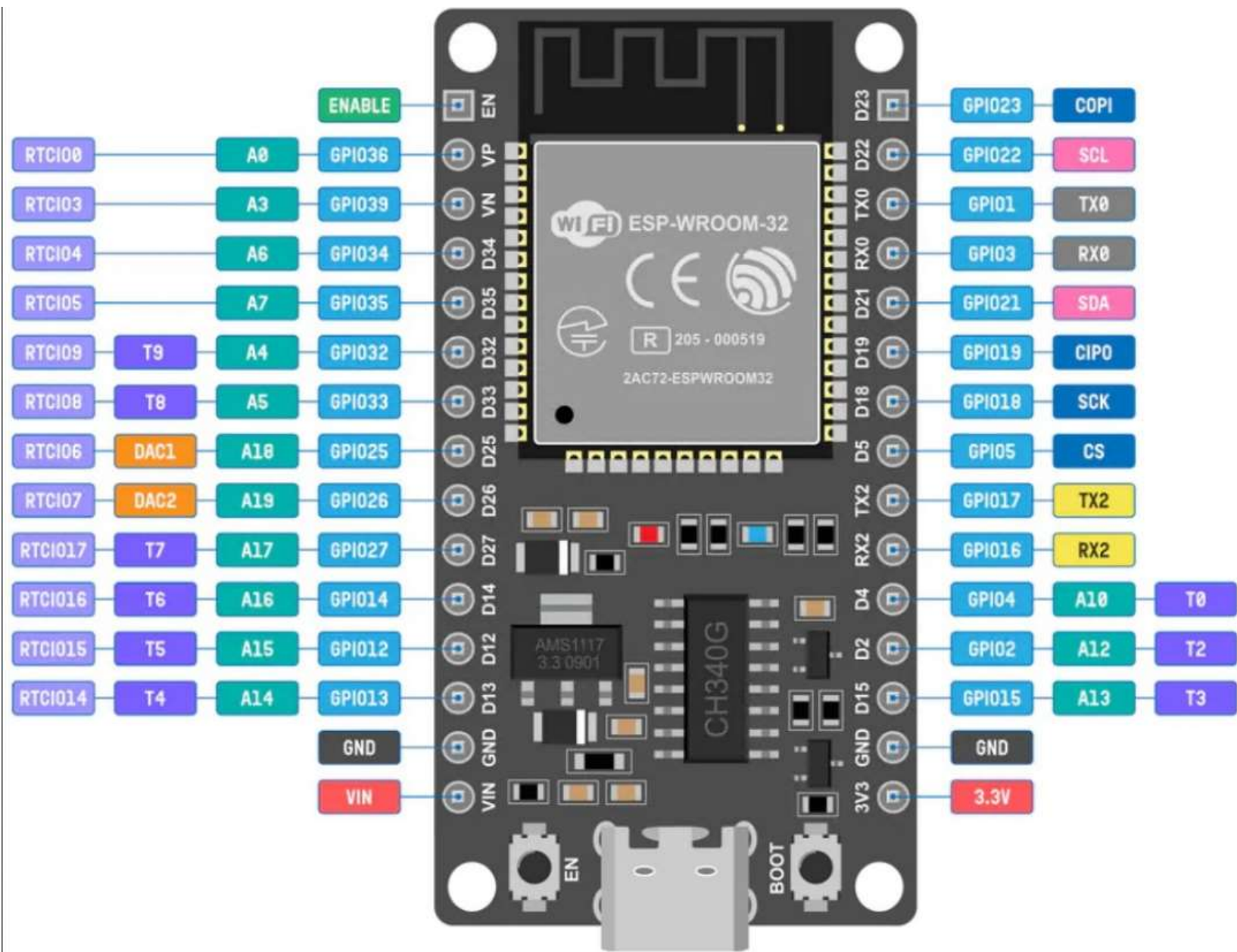


Montaje de sensores en ESP32

Álvaro Cuadrado





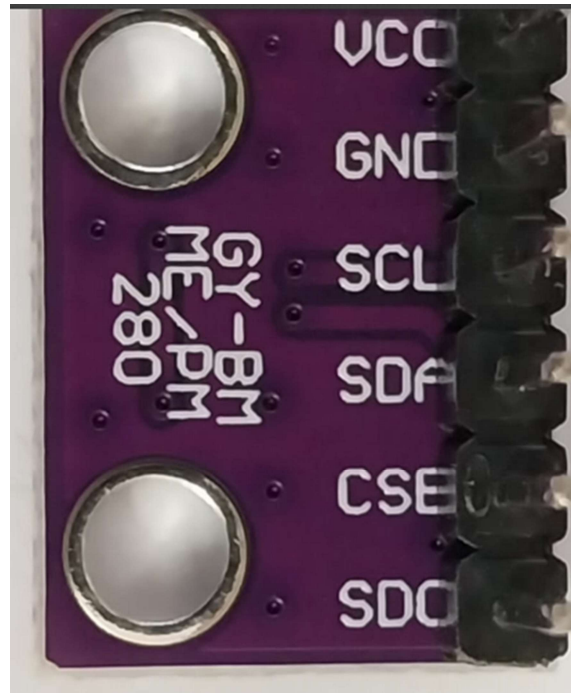
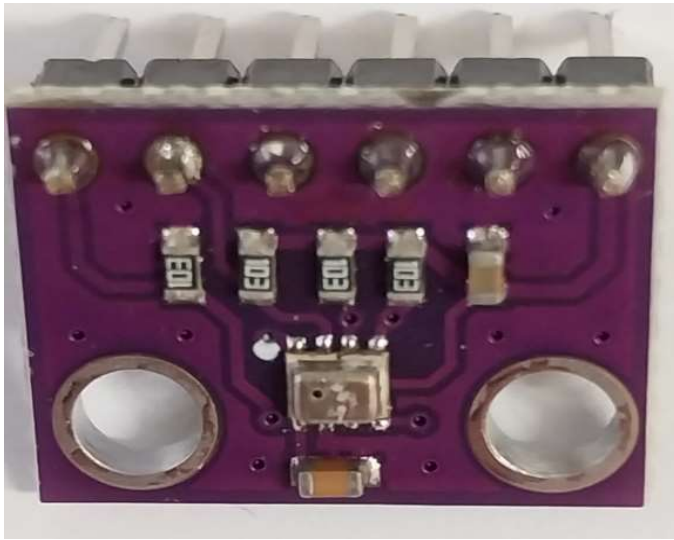
Definir cada entrada / salida para lo que sirve

- Bus I2C pines (ya definidos en la ESP 32):
 - D22 (SDA)
 - D21 (SCL)

Globals.h

- `#define RFID_SDA 5 // ESP32 pin GPIO05`
- `#define RFID_RST 4 // ESP32 pin GPIO04`
- `#define RFID_MISO 19 // ESP32 pin GPIO19`
- `#define RFID_MOSI 23 // ESP32 pin GPIO23`
- `#define RFID_SCK 18 // ESP32 pin GPIO18`
- `#define doorOpen 2 // ESP32 pin GPIO02`
- `#define microPin 34 // ESP32 pin GPIO34`
- `#define detectPin 16 // ESP32 pin GPIO16`
- `#define pirPin 26 // ESP32 pin GPIO26`
- `#define NUMITEMS(arg) ((unsigned int) (sizeof (arg) / sizeof (arg[0])))`
- `#define SCREEN_WIDTH 128`
- `#define SCREEN_HEIGHT 64`
- `#define OLED_MOSI 13 // ESP32 pin GPIO13`
- `#define OLED_D0 14 // ESP32 pin GPIO14`
- `#define OLED_DC 17 // ESP32 pin GPIO17`
- `#define OLED_CS 15 // ESP32 pin GPIO15`
- `#define OLED_RESET 25 // ESP32 pin GPIO25`

PM 280 (Sensor de temperatura)

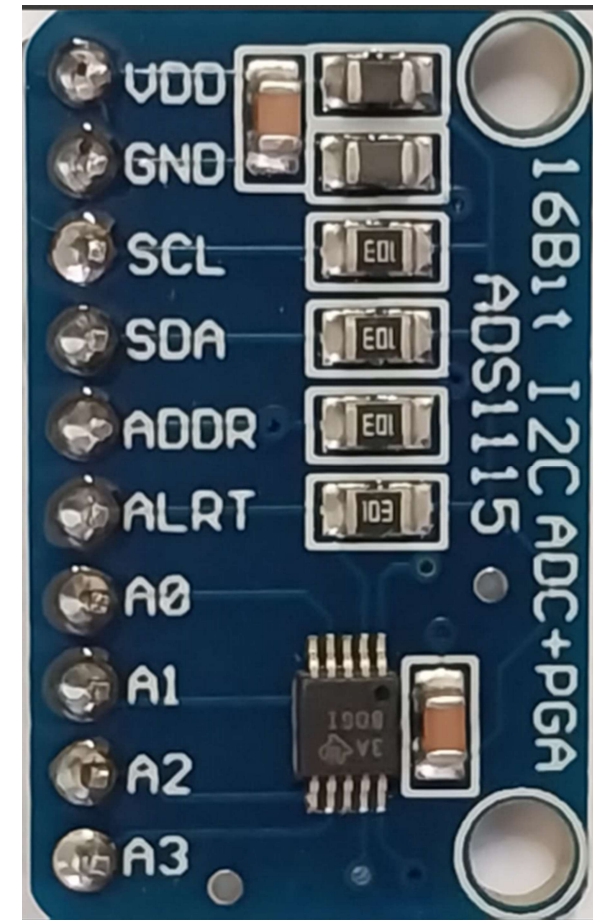


3,3V
GND
D21
D22
NC
NC

Conversor A/D ADS1115 pinza amperimétrica



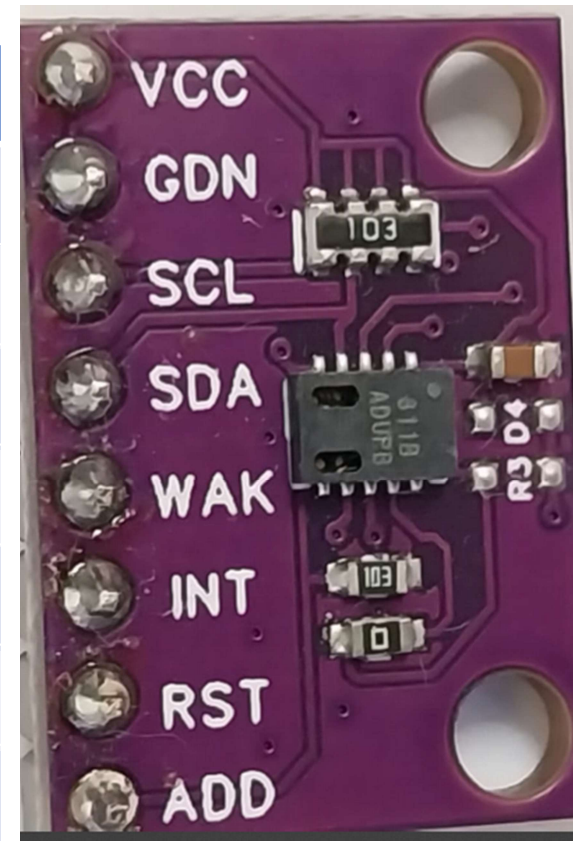
3,3
GND
D21
D22
GND
NC
Pinza
Pinza
NC
NC



WCMCU-811 Dióxido de carbono



3,3V
GND
D21
D22
GND
NC
NC
NC





3,3V

GND

D21

D22

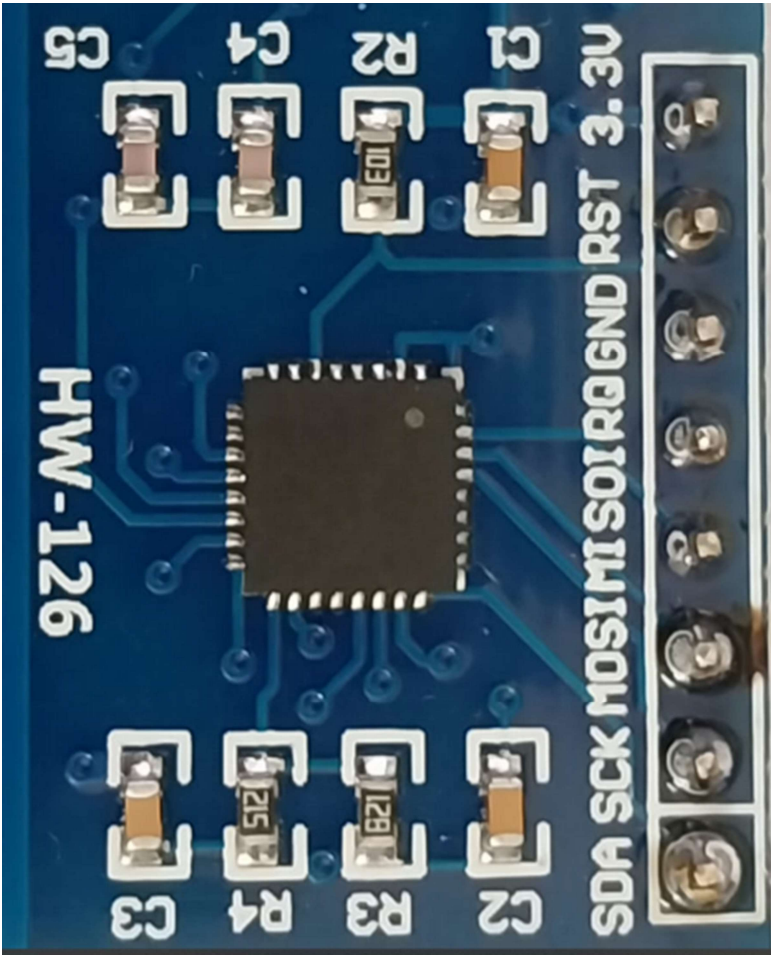
NC





RFID HW-126

```
#define RFID_SDA 5 // ESP32 pin GPIO05
#define RFID_RST 4 // ESP32 pin GPIO04
#define RFID_MISO 19 // ESP32 pin GPIO19
#define RFID_MOSI 23 // ESP32 pin GPIO23
#define RFID_SCK 18 // ESP32 pin GPIO18
```



3,3V
D4
GND
No Conectada
D19
D23
D18
D5

Pantalla OLED

```
#define OLED_MOSI 13 // ESP32 pin GPIO13
#define OLED_D0 14 // ESP32 pin GPIO14
#define OLED_DC 17 // ESP32 pin GPIO17
#define OLED_CS 15 // ESP32 pin GPIO15
#define OLED_RESET 25 // ESP32 pin GPIO25
```

D15

D17

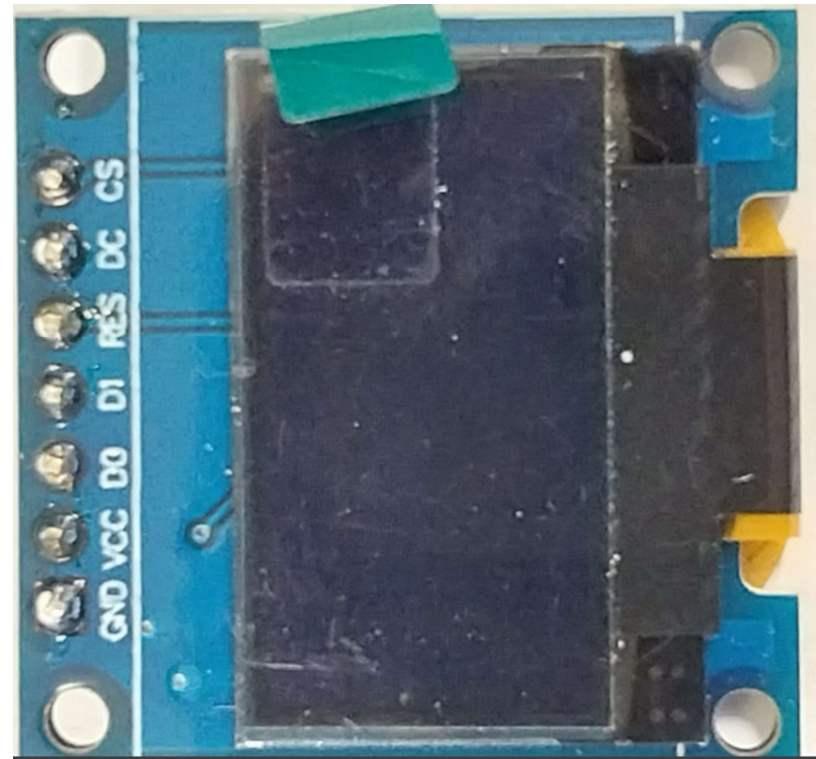
D25

D13

D14

3,3V

GND



Rele para cerradura

```
#define doorOpen 2    // ESP32 pin GPIO02
```

