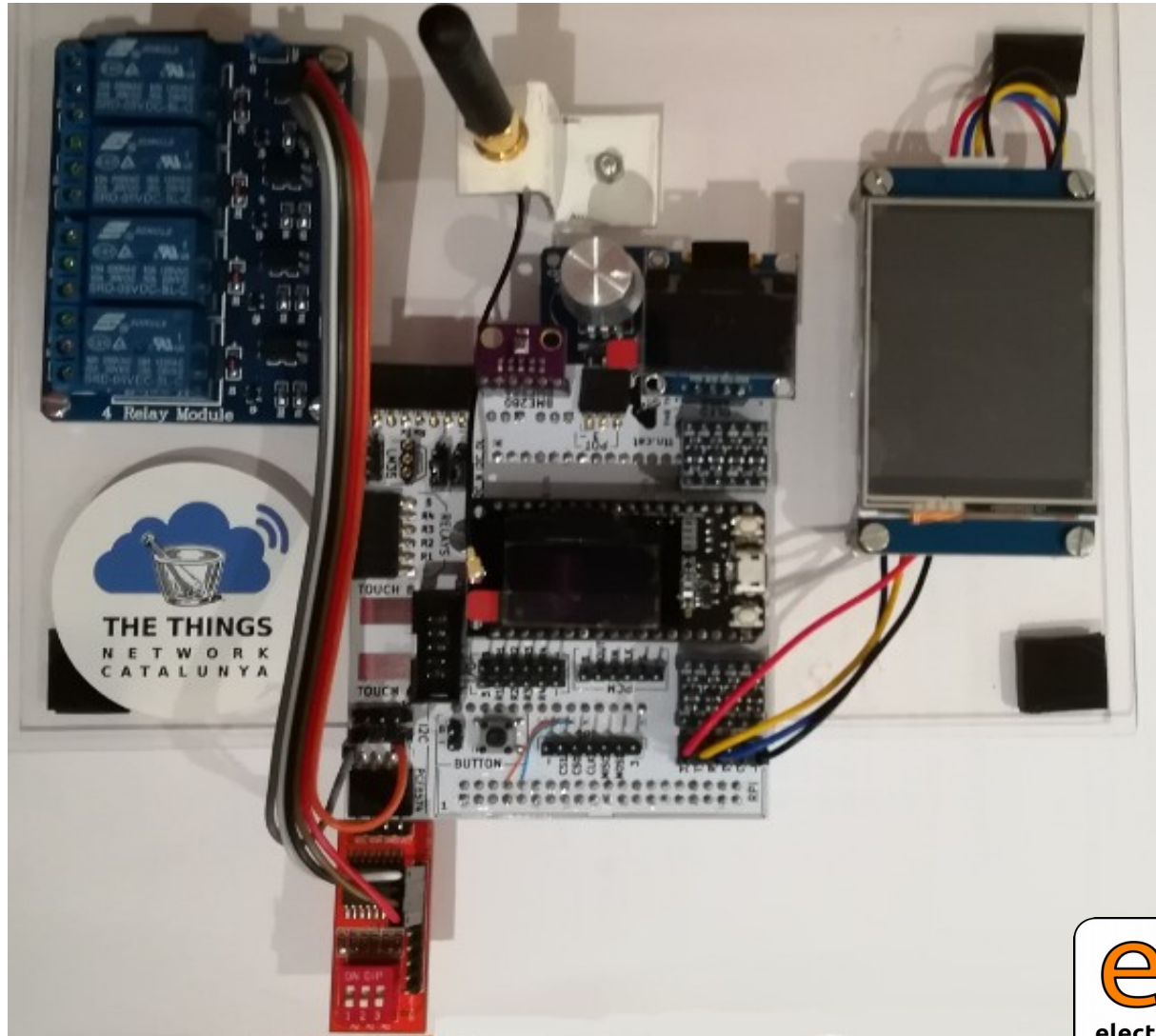


Conjunt IoT

Prova del maquinari

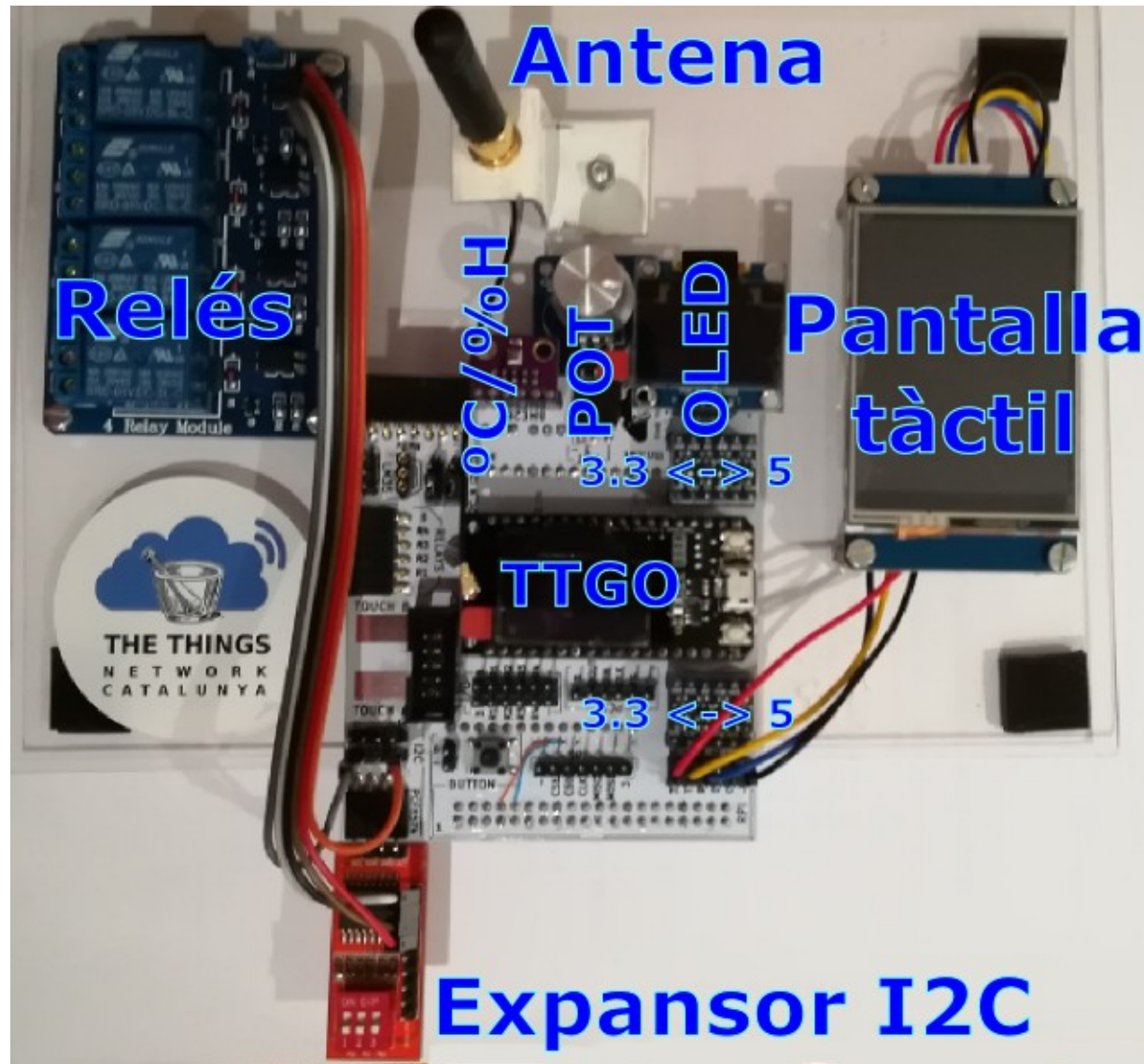


THE THINGS
NETWORK
CATALUNYA



JESUÏTES El Clot
Escola del Clot

Conjunt de proves



Verificació control de relés

Prement els quatre botons de la pantalla Nextion, connectada via UART al TTGO-LoRa-ESP32, es controlen els relés mitjançant l'expansor I2C PCF8574. També canvia la presentació de la pantalla OLED.

Al prémer el botó de la placa blanca (indicat a la serigrafia com a BUTTON) es visualitza a la pantalla Nextion el valor llegit del potenciòmetre.

Codi preinstal·lat el dia 25 de juny (l'adreça del PCF8574 pot ser 0x20 o 0x38):
https://github.com/jordibinefa/arduino-IDE-codes/tree/master/esp32_Nextion_02b_

Amb MQTT integrat:
https://github.com/jordibinefa/arduino-IDE-codes/tree/master/esp32_Nextion_03

Lectura de temperatura (1/2)

```
                                /dev/ttyUSB0
|
Pressure : 1363.85 hPa
Relative Humidity : 57.96 RH
Temperature in Celsius : 20.07 C
Temperature in Fahrenheit : 68.13 F
Pressure : 1363.88 hPa
Relative Humidity : 57.89 RH
Temperature in Celsius : 20.07 C
Temperature in Fahrenheit : 68.13 F
Pressure : 1363.91 hPa
Relative Humidity : 57.84 RH
Temperature in Celsius : 20.06 C
Temperature in Fahrenheit : 68.10 F
Pressure : 1364.52 hPa
Relative Humidity : 57.61 RH
Temperature in Celsius : 20.01 C
Temperature in Fahrenheit : 68.01 F
Pressure : 1366.30 hPa
Relative Humidity : 57.54 RH
Temperature in Celsius : 20.04 C
Temperature in Fahrenheit : 68.06 F
Pressure : 1365.20 hPa
Relative Humidity : 57.46 RH
```

Lectura de temperatura (2/2)

```
Temperature = 21.95 *C  
Pressure = 1017.37 hPa  
Approx. Altitude = -34.22 m  
Humidity = 62.85 %
```

```
Temperature = 21.95 *C  
Pressure = 1017.33 hPa  
Approx. Altitude = -33.92 m  
Humidity = 62.76 %
```

```
Temperature = 21.97 *C  
Pressure = 1017.33 hPa  
Approx. Altitude = -33.95 m  
Humidity = 62.70 %
```

```
Temperature = 21.97 *C  
Pressure = 1017.36 hPa  
Approx. Altitude = -34.17 m  
Humidity = 62.76 %
```

https://github.com/jordibinefa/arduino-IDE-codes/tree/master/esp32_bme280test