



#### Dispositius IoT SaumeNogués @rPrimTech







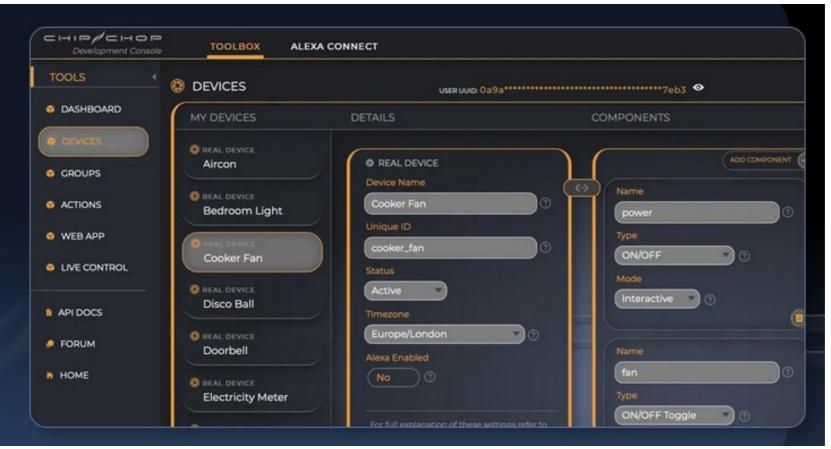




#### Multidispositiu

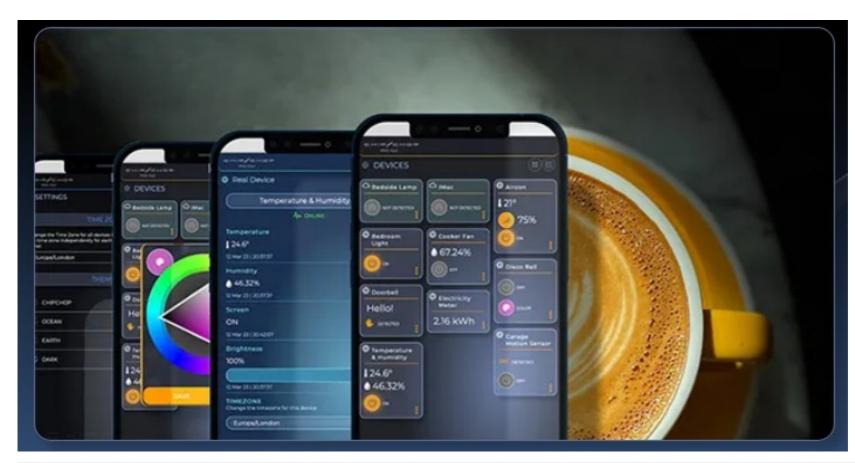
WEB ANDROID IPHONE TABLE





Consola





Web APP



Alexa Compatible

#### What do you get

The following list may not look very long but it's actually an insane amount of resources allocated for you to play!

- Shared resources on one of the ChipChop community engines
- · 3,000,000 monthly platform requests
- 5,000 monthly Alexa requests
- 10 x device persistent bi-directional channels
- 10 components per device

10 x Virtual Triggers
 multifunctional and designed to be used with Alexa!

- 10 second per device Heartbeat
- up to 1kb status data packet per Heartbeat
- 6 Event Triggers per minute per device
   500 millisecond spaced micro-bursts allowed!

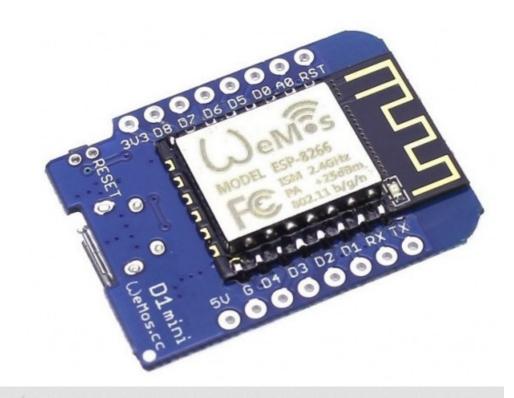
#### **Prestacions**





#### **ESP8266**







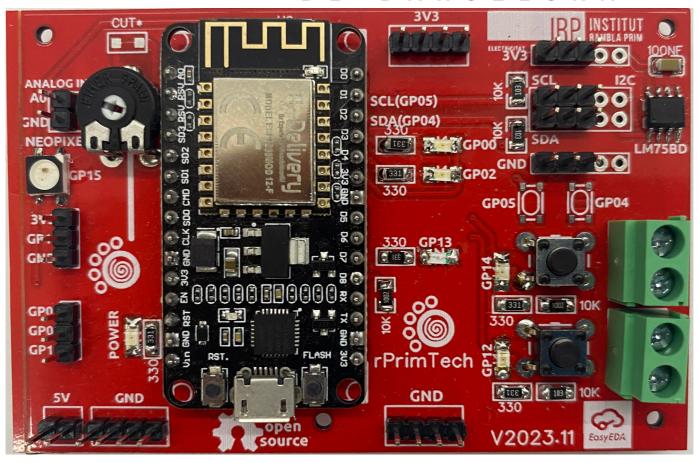


#### ESP32

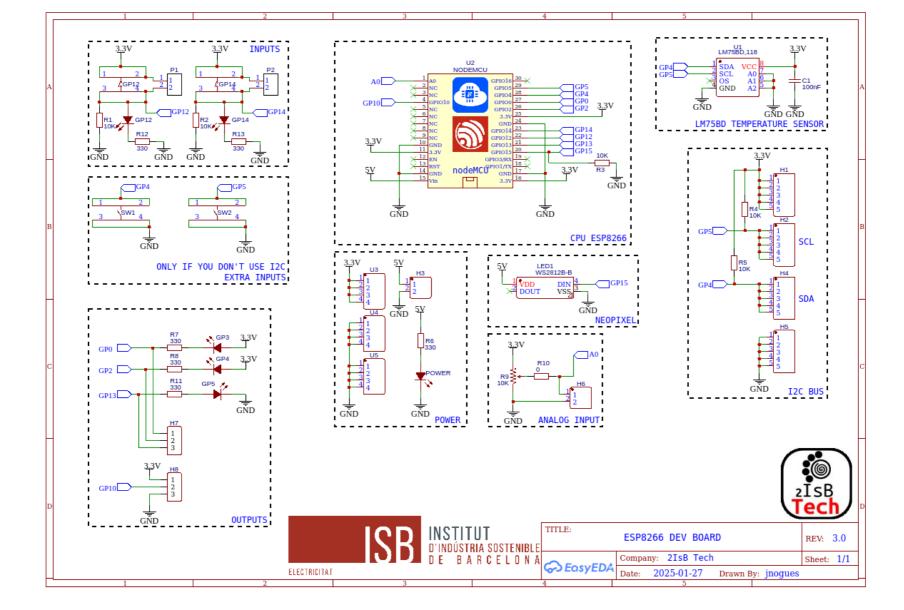


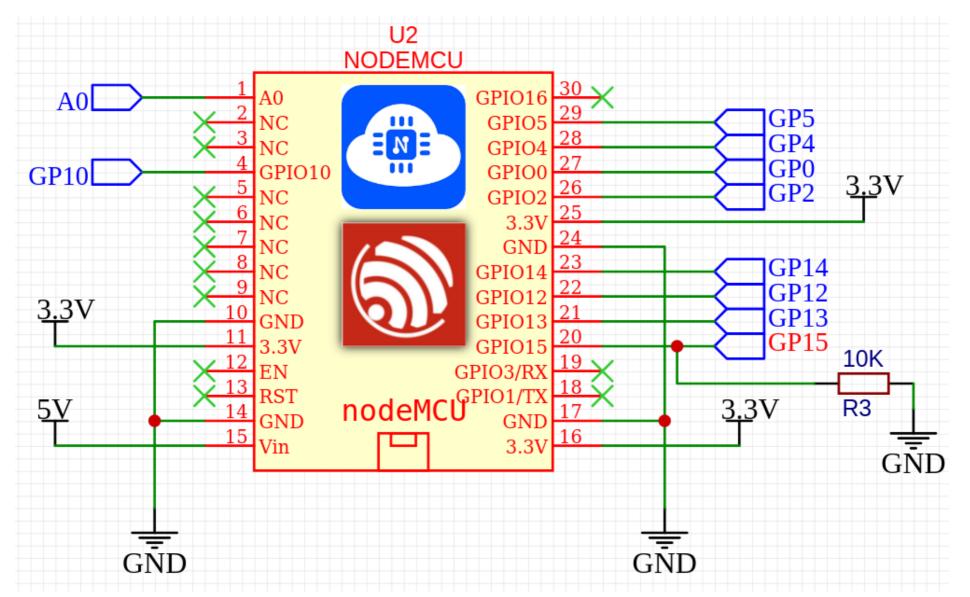


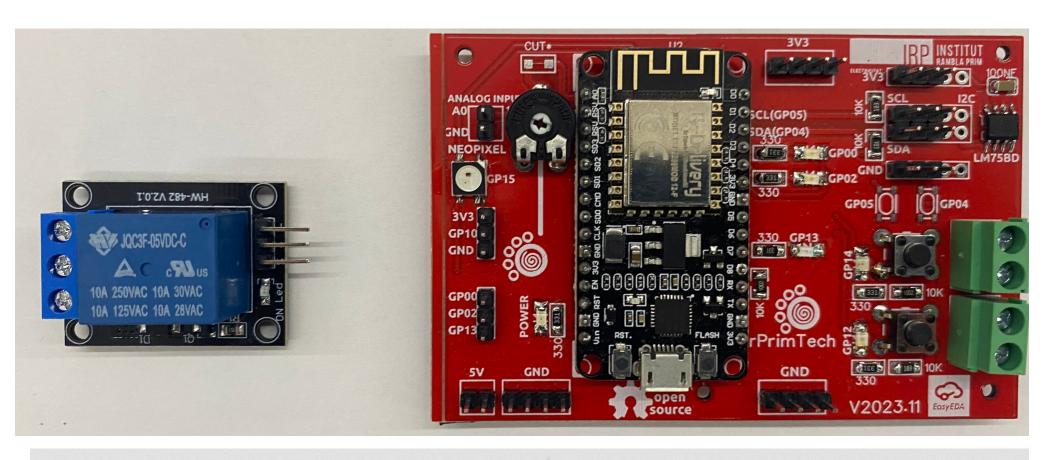


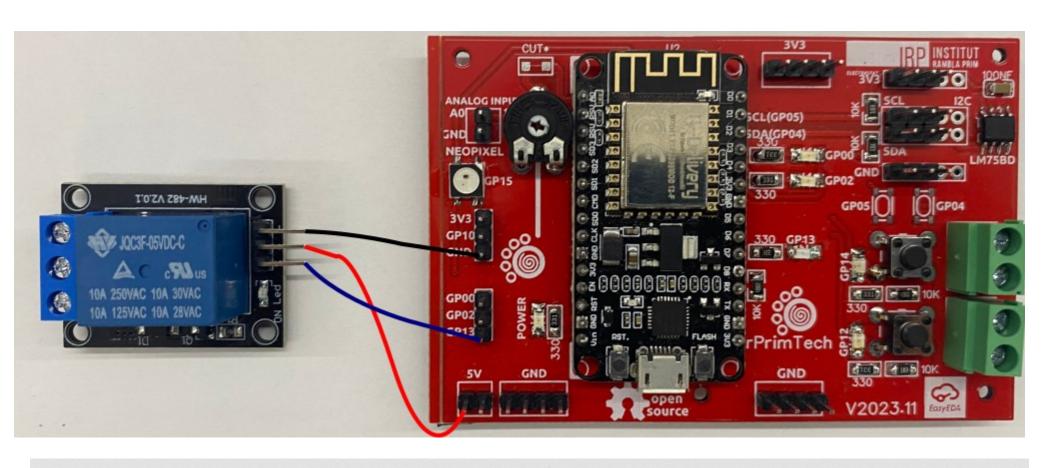


### ISB











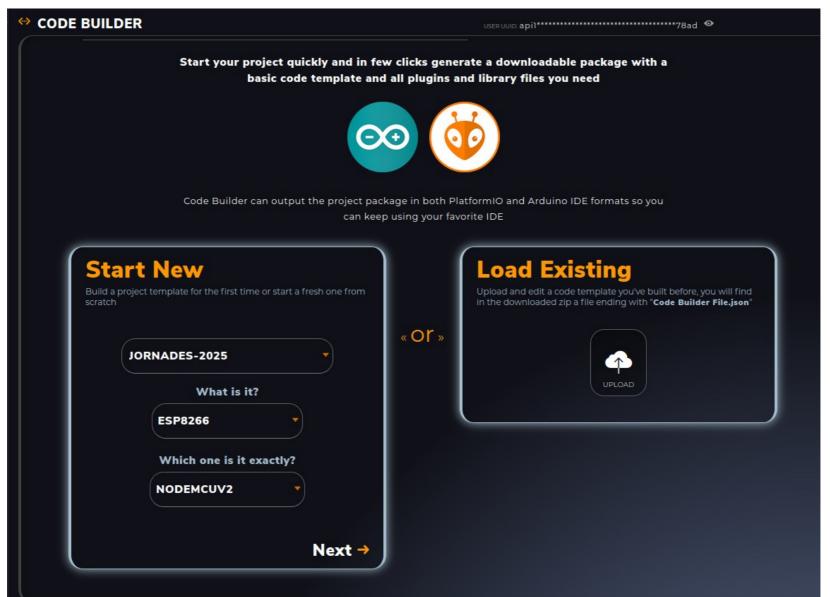
### S B INSTITUT D'INDÚSTRIA SOSTENIBLE D E B A R C E L O N A

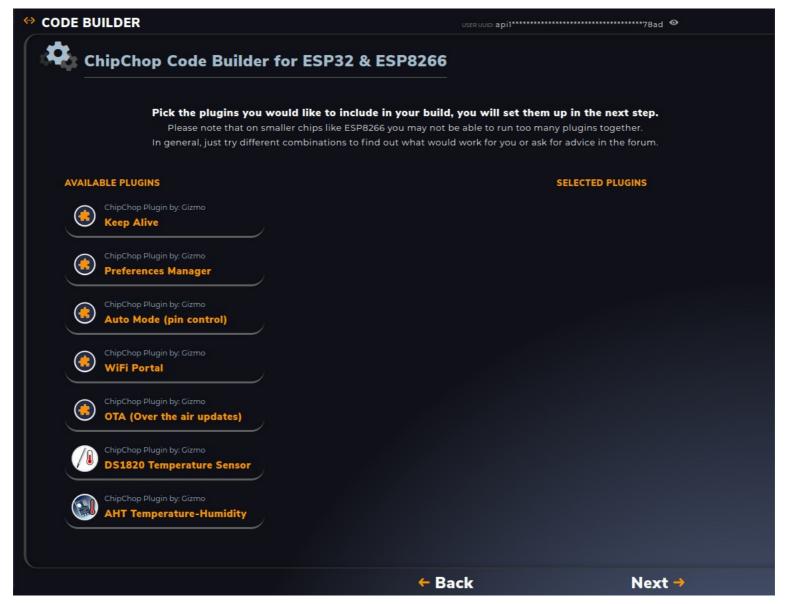


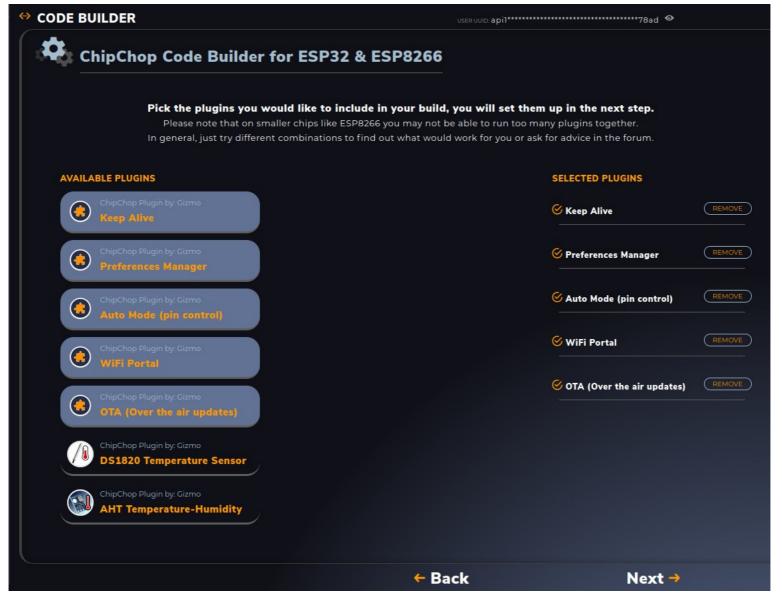


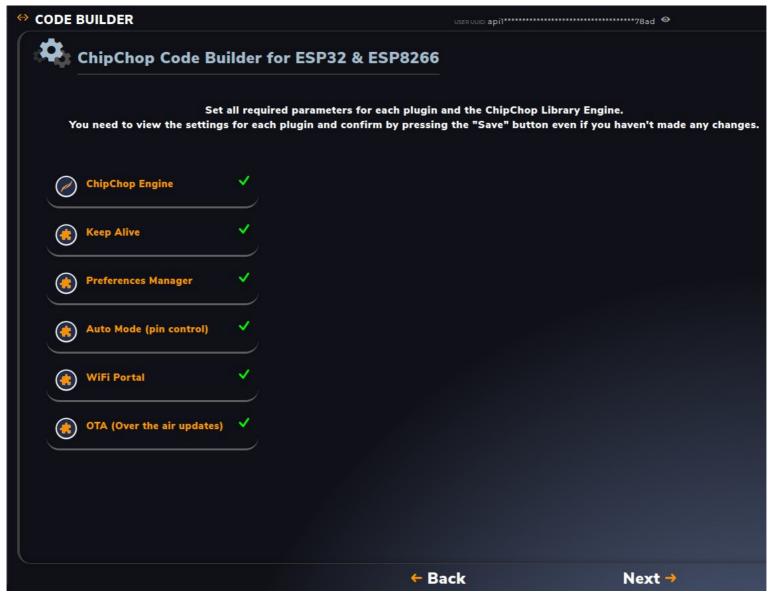
String server\_uri = "wss://api14.chipchop.io/wsdev/";
String uuid = "ChpChpUsRapi14xd8da4ee343824e5e9a45bcc7a82378ad";
String auth\_code = "bd63eb82aaad4110907622fdc94f74a9";
String device\_id = "device\_f43b5d3251fa";

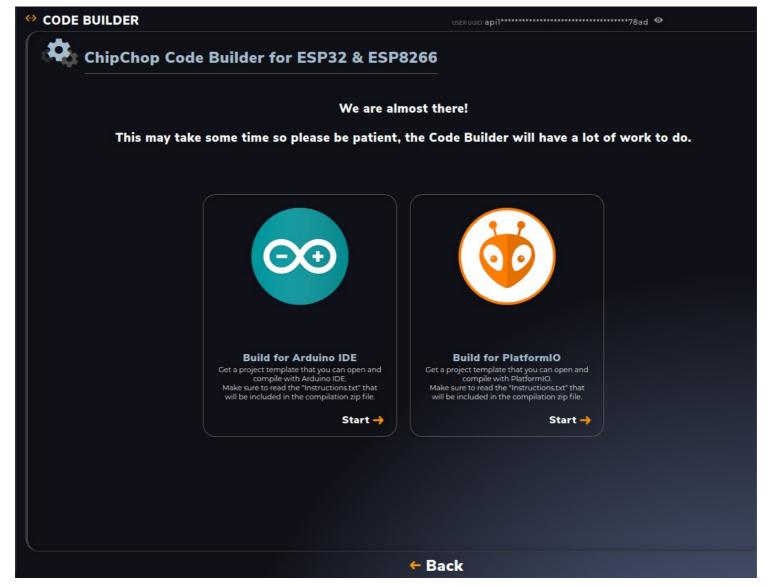
CLOSE X















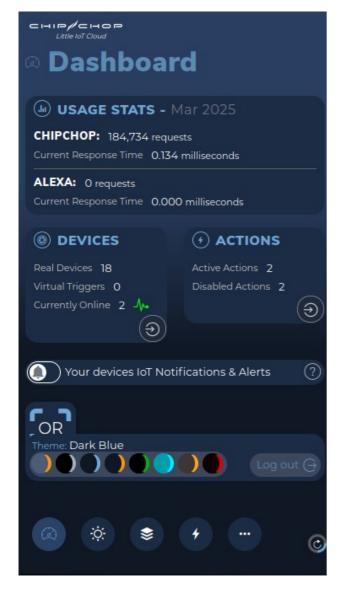
#### Programa mínim

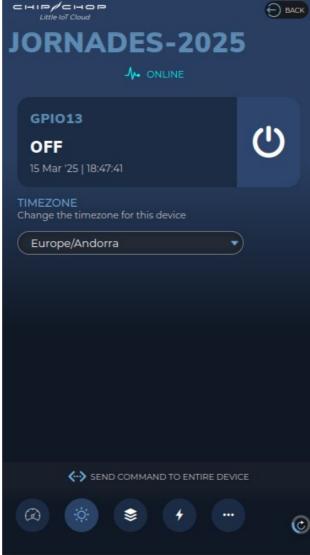
```
#include <ESP8266WiFi.h>
    #define CHIPCHOP DEBUG true
 6 #include "src/ChipChop Config.h"
 7 #include "src/ChipChopEngine.h"
 8 extern ChipChopEngine ChipChop;
   #include "src/ChipChopPlugins.h"
10 extern ChipChopPluginsManager ChipChopPlugins;
   #include "src/ChipChop Includes.h"
12
    String server uri = "wss://api14.chipchop.io/wsdev/";
    String uuid = "ChpChpUsRapi14xd8da4ee343824e5e9a45bcc7a82378ad";
   String auth code = "bd63eb82aaad4110907622fdc94f74a9";
   String device id = "device f43b5d3251fa";
17
    AutoStartPins on off pins[MAX COMPONENTS] = {
      {"GPI013",13,LOW,"0FF",AUTO MODE RESTORE,{"ON","0FF"}},
20 };
21
    void ChipChop onCommandReceived(String target component, String command value, String command source, int command age){
        Serial.println(target component);
23
24
        Serial.println(command value);
```

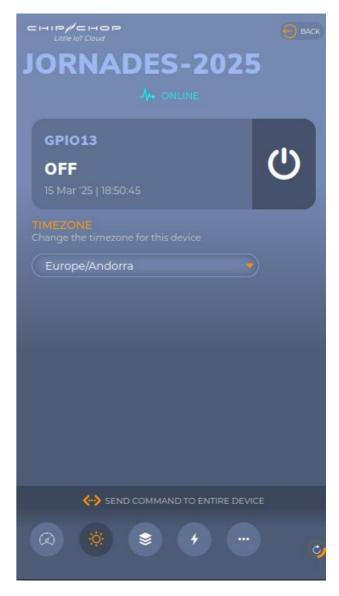


#### Programa mínim

```
void setup(){
29
        Serial.begin(115200);
        delay(1000);
        Serial.println("Comencem....");
31
32
33
       WifiPortal.ssid("<ssid name>", "<password>");
        ChipChop.debug(true);
        ChipChop.commandCallback(ChipChop onCommandReceived);
36
        ChipChop.start(server uri, uuid, device id, auth code);
        ChipChopPlugins.start();
        AutoMode.start(on off pins);
41
42
43
   void loop(){
       //keep the ChipChop engine and plugins running
       ChipChop.run();
        ChipChopPlugins.run();
```











**ON GPI013** 



**OFF GPI013** 



#### Moltes gràcies!

- jnogues@irp.cat
- @rPrimTech
- github.com/jnogues/jornades2025

