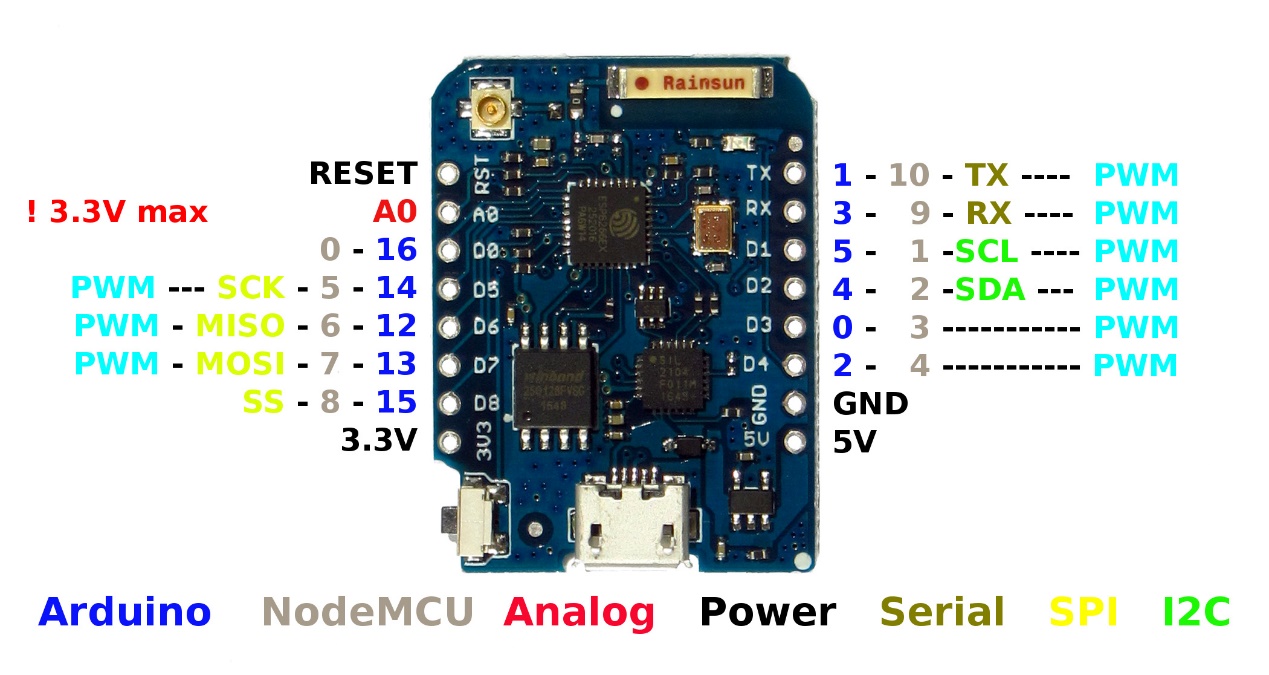
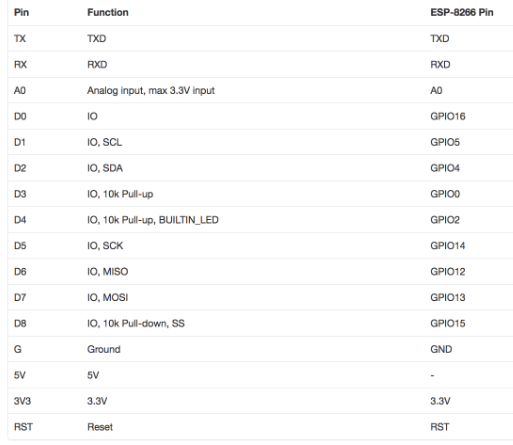
# d1 mini arduino

開發板 ESP8266 Arduino 相容開發NodeMCU, 是一塊便宜且附 Wifi 的 Arduino.





ESP8266

<https://github.com/esp8266/Arduino>

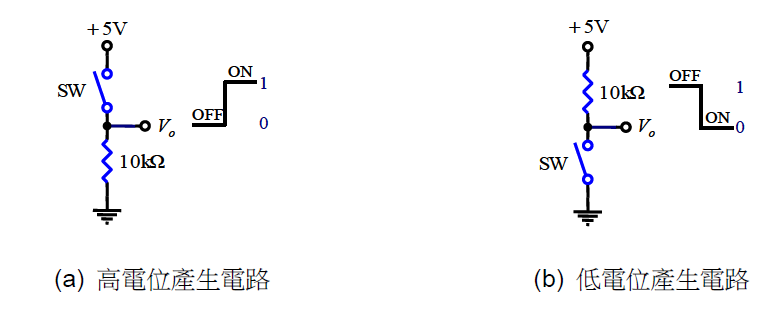
To support for ESP8266 chip to the Arduino environment. It lets you write sketches using familiar Arduino functions and libraries, and run them directly on ESP8266, no external microcontroller required.

Install driver <http://arduino.esp8266.com/stable/package_esp8266com_index.json>

Note:

D3, D4 有支援 pull-up

# pushButton



高電位產生電路

Pin 🡪 switch A 🡪 220 電阻 🡪 G

5V 🡪 switch B

低電位產生電路

* 上拉電阻

Pin 🡪 switch A 🡨🡪 switch B 🡪 G

|  |
| --- |
| void setup() {  // put your setup code here, to run once:  pinMode(READ\_PIN, INPUT\_PULLUP) ;  }  void loop() {  int switchValue = !digitalRead(READ\_PIN);  Serial.println(switchValue);  if (switchValue)  …  else  …  } |

# Relay

5V 🡪 Relay: VCC

G 🡪 Relay: G

Pin 🡪 int1

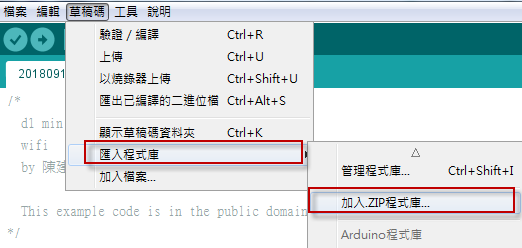
* GND: goes to ground
* IN1: controls the first relay. Should be connected to an Arduino digital pin
* IN2: controls the second relay. Should be connected to an Arduino digital pin
* VCC: goes to 5V

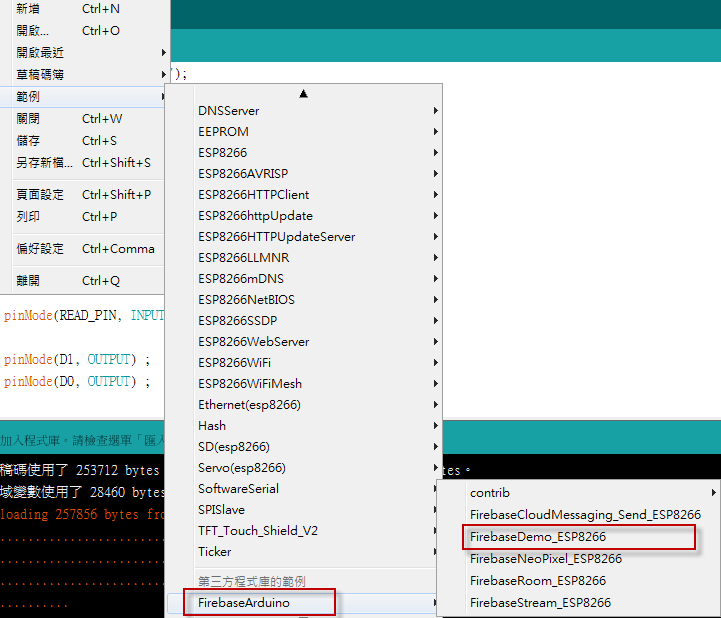
# Firebase Arduino

* Import firebase-arduino library

Git: <https://github.com/FirebaseExtended/firebase-arduino>

Doc: <https://firebase-arduino.readthedocs.io/en/latest/>





Note:

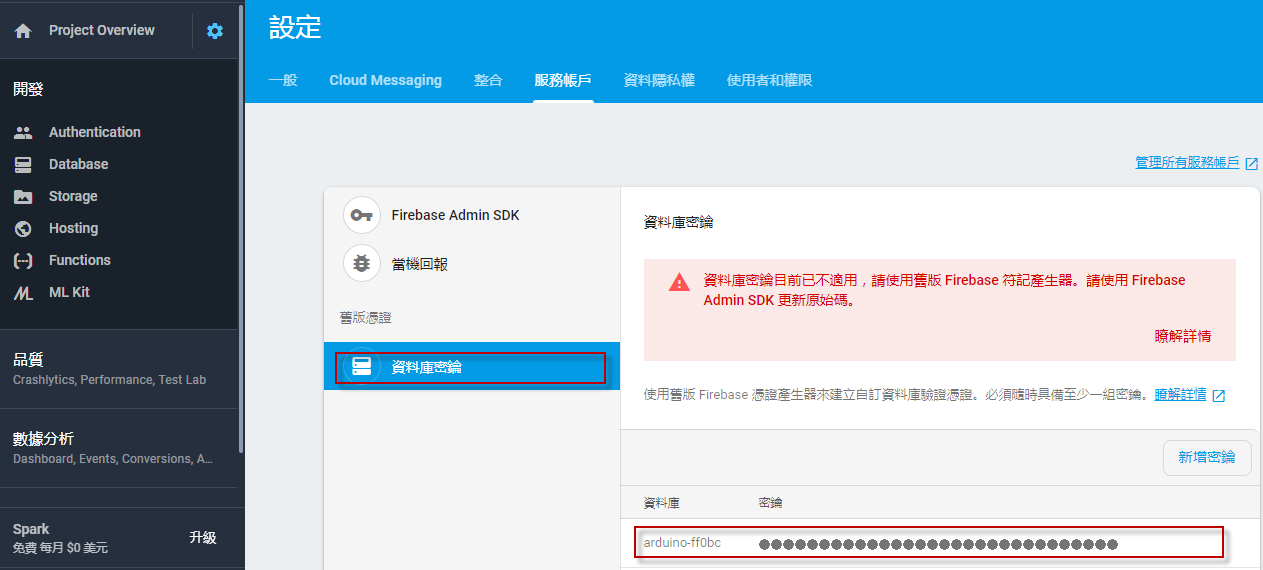
需要事先匯入 ArduinoJSON 程式庫

|  |
| --- |
| // Set connection information.  #define FIREBASE\_HOST "arduino-ff0bc.firebaseio.com"  #define FIREBASE\_AUTH "qGXsCir7KVVbAe2H4DVwWJBgulLThlfHBiA1inqZ"  #define WIFI\_SSID "505-AP"  #define WIFI\_PASSWORD "mis505505" |

* FIREBASE\_HOST



* FIREBASE



Seesaw🡺