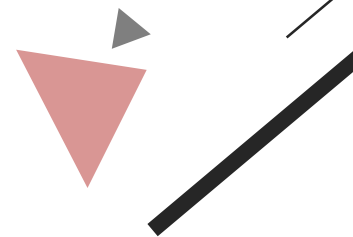
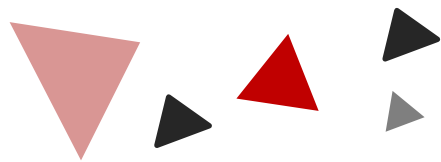




Genio Py.

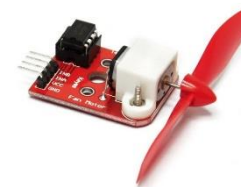
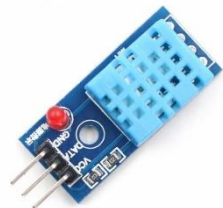
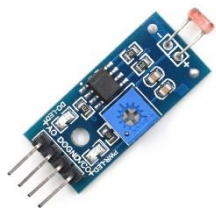

智慧家庭組裝說明





# 清單

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S  
T




## 1 模組

- 光敏電阻感測模組
- DHT11 溫濕度模塊
- HC SR04 超音波模組
- SG90 (90-180°) 伺服馬達
- L9110 風扇模組
- CMOS Sensor 鏡頭模組



清單

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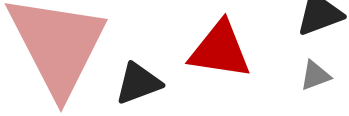


2

## 其餘零組件

- MicroSDHC 記憶卡 (8G)
- MicroUSB to TypeA 線 (30cm)
- 麵包板 (400孔)
- 輕觸式開關 (兩腳)
- 發光二級體LED (白光&綠光)
- 8Ω / 0.5w 喇叭 (含喇叭盒)
- 母 - 母杜邦線 20P (20cm)
- 公 - 母杜邦線 20P (20cm)

# 1



PART

## 安裝模組

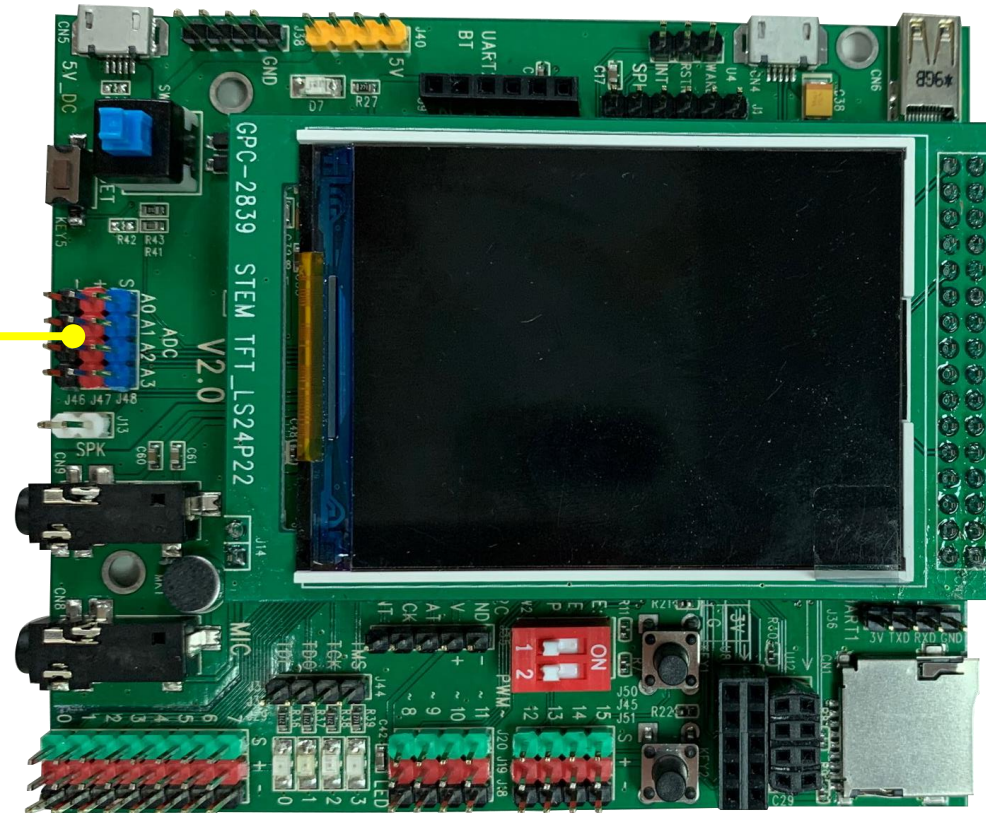
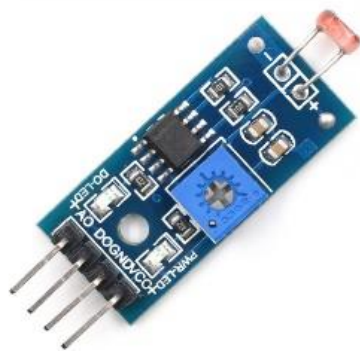
搭配 母-母杜邦線



# 1. 光敏電阻感測模組

A0	A1	A2	A3
ADC(0)	ADC(1)	ADC(2)	ADC(3)
	3.3V		
	GND		

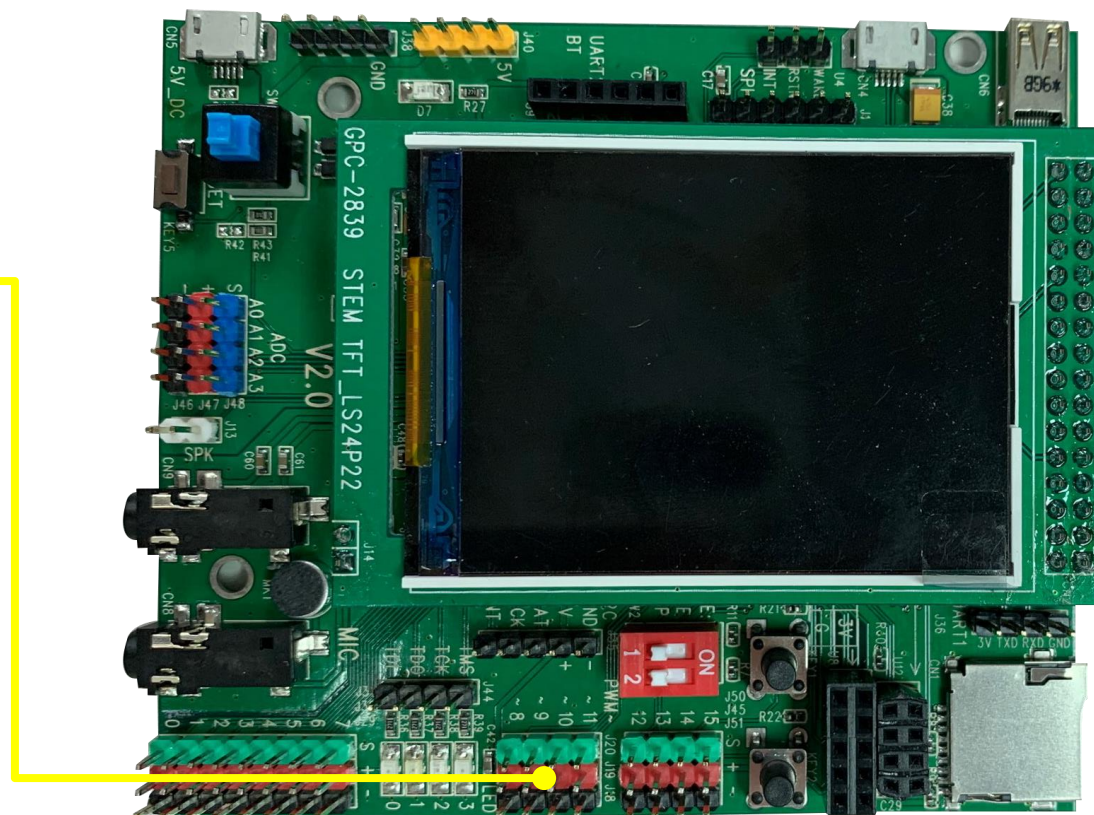
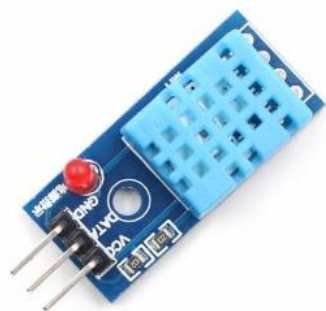
Module      Genio Py.  
A0      ■      A2  
VCC      ■      VCC  
GND      ■      GND



## 2. DHT11 溫濕度模塊

PWM8	PWM9	PWM10	PWM11
E0	E1	E2	E3
	3.3V		
	GND		

Module      Genio Py.  
DATA      ■ PWM9  
VCC      ■ VCC  
GND      ■ GND



### 3. HC\_SR04 超音波模組

I012	I013	I014	I015
E4	E5	E6	E7
3.3V			
GND			

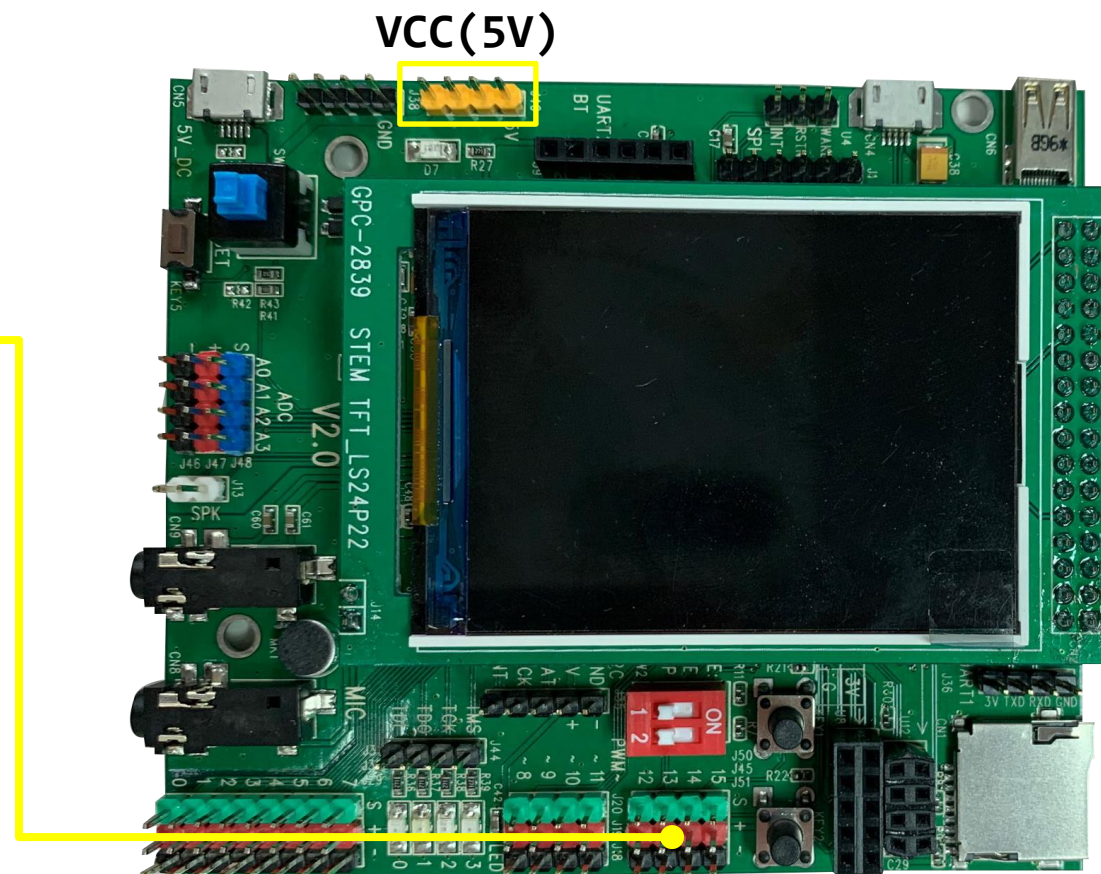
Module      Genio Py.

Trig      ■ I012

Echo      ■ I013

VCC      ■ VCC(5V)

GND      ■ GND



## 4. SG90 伺服馬達

PWM8	PWM9	PWM10	PWM11
Servo(1)	Servo(2)	Servo(3)	Servo(4)
3.3V			
GND			

Module

橘

紅

棕

Genio Py.



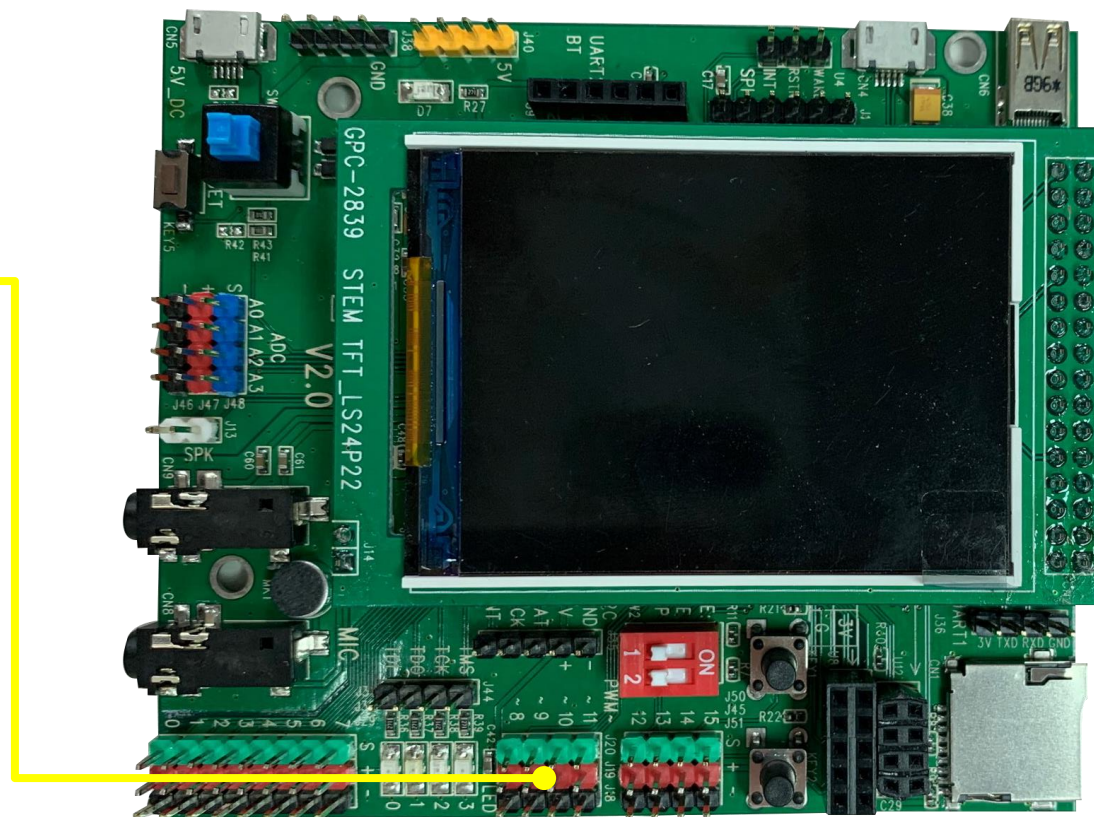
PWM8



VCC



GND

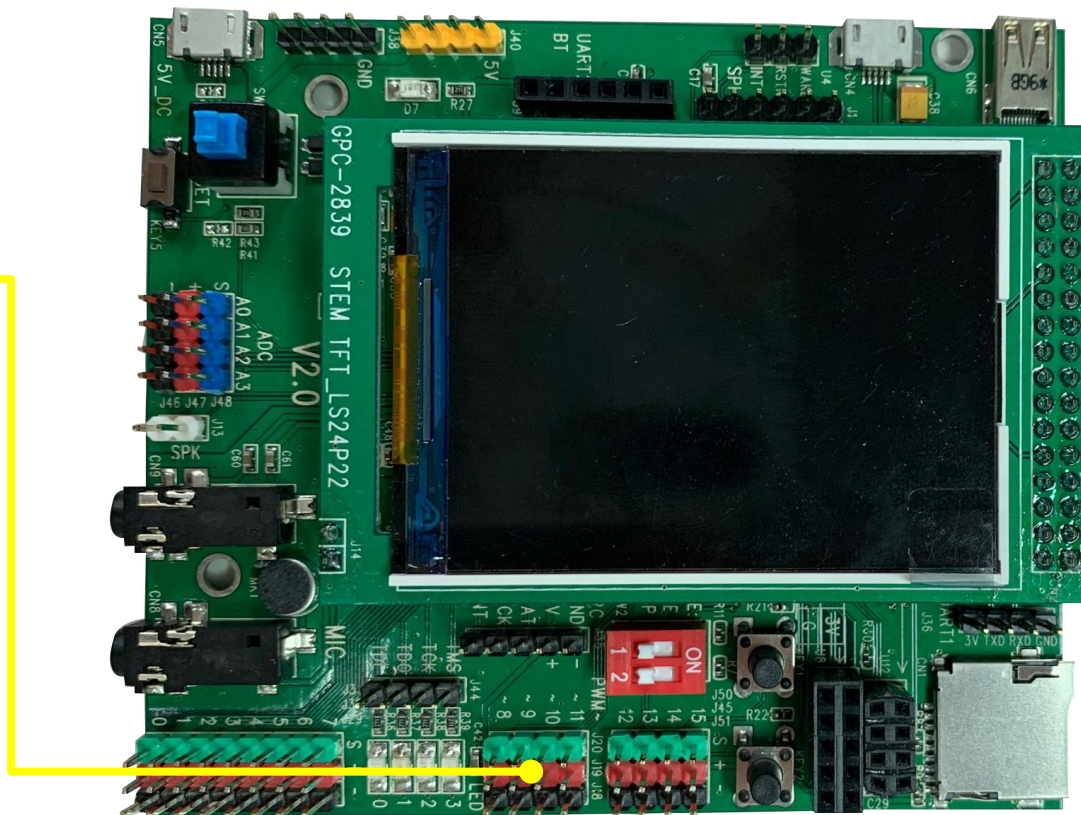




## 5. L9110 風扇模組

PWM8	PWM9	PWM10	PWM11
E0	E1	E2	E3
3.3V			
GND			

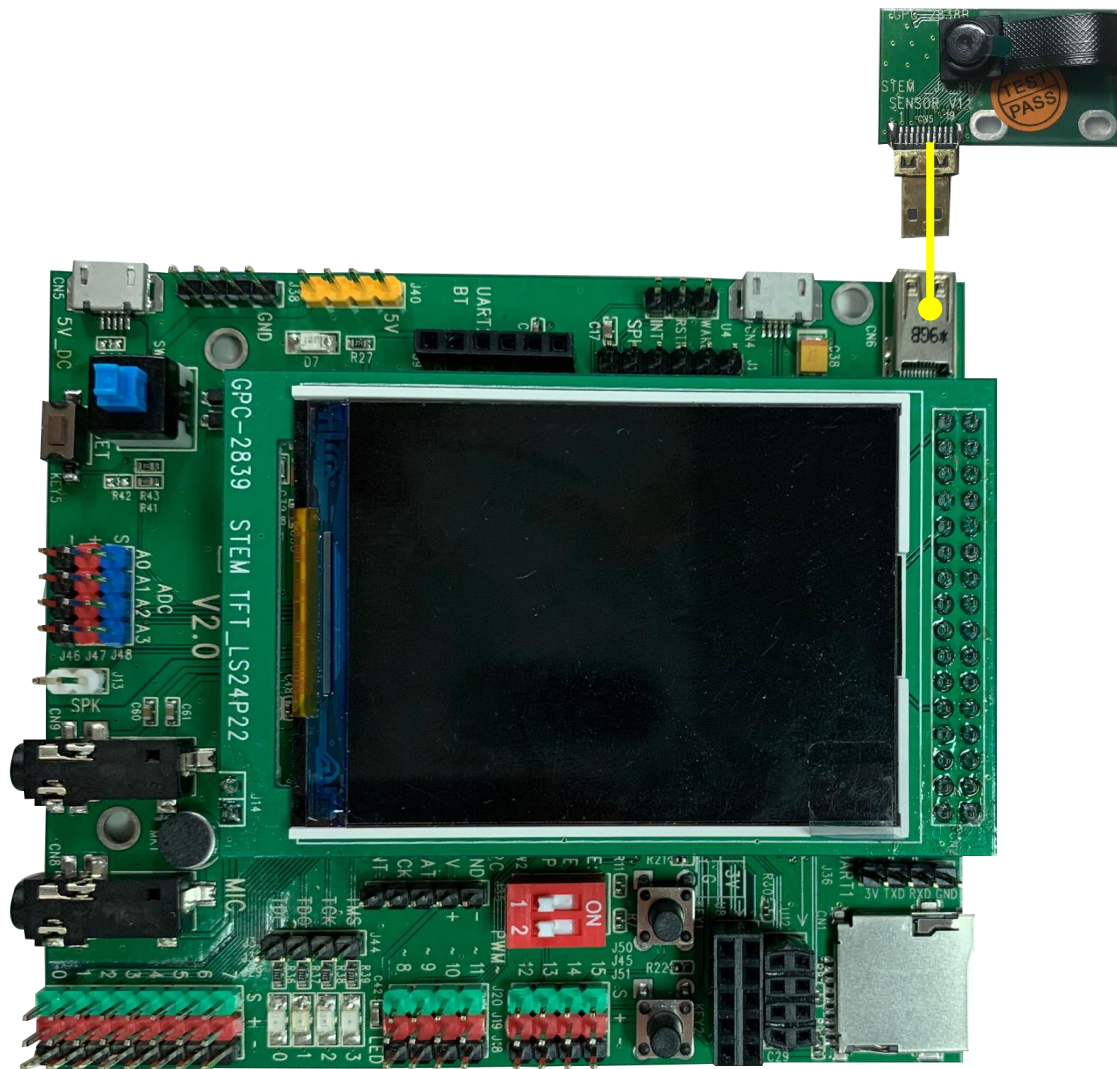
Module	Genio Py.
INA	PWM10
INB	PWM11
VCC	VCC
GND	GND



## 6. CMOS Sensor 鏡頭模組

### 連接孔

- ◆ MIPI interface
- ◆ Mini HDMI connector



# 2



PART

## 其餘零組件

搭配 公-母杜邦線

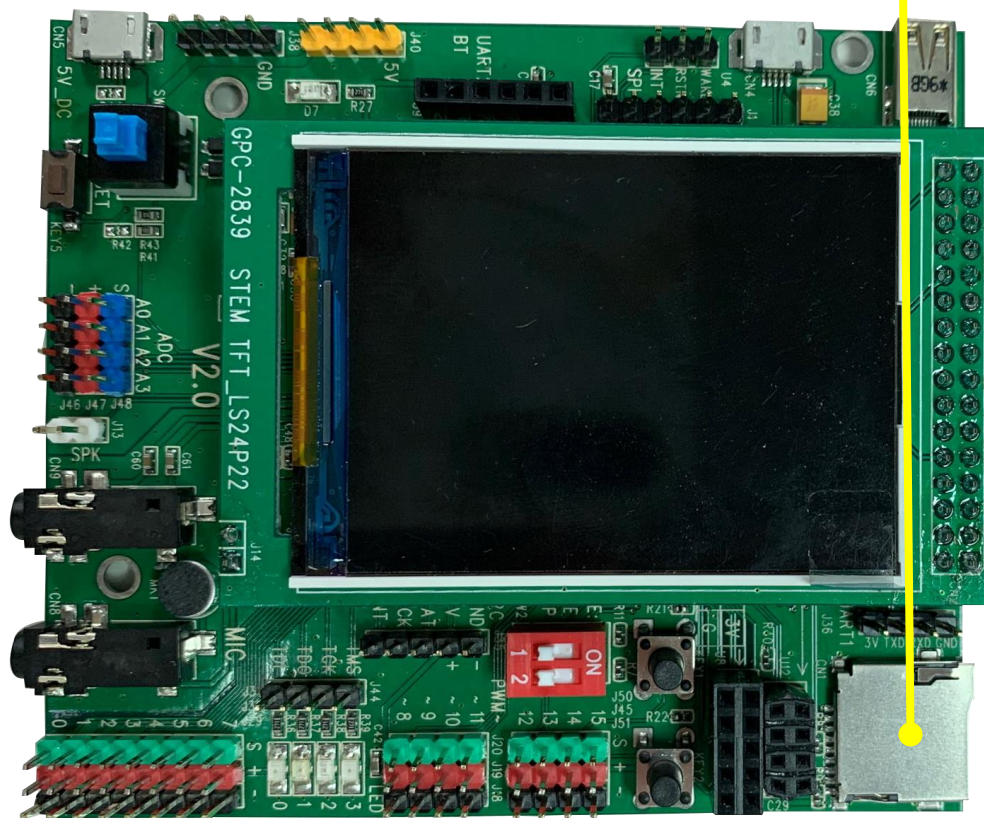


# 1. MicroSDHC 記憶卡 (8G)



## 記憶卡內容

- ◆ img 檔案夾
- ◆ mp3 檔案夾
- ◆ main.py (智慧家庭執行檔)
- ◆ VRnew.bin (語音指令擴充檔)

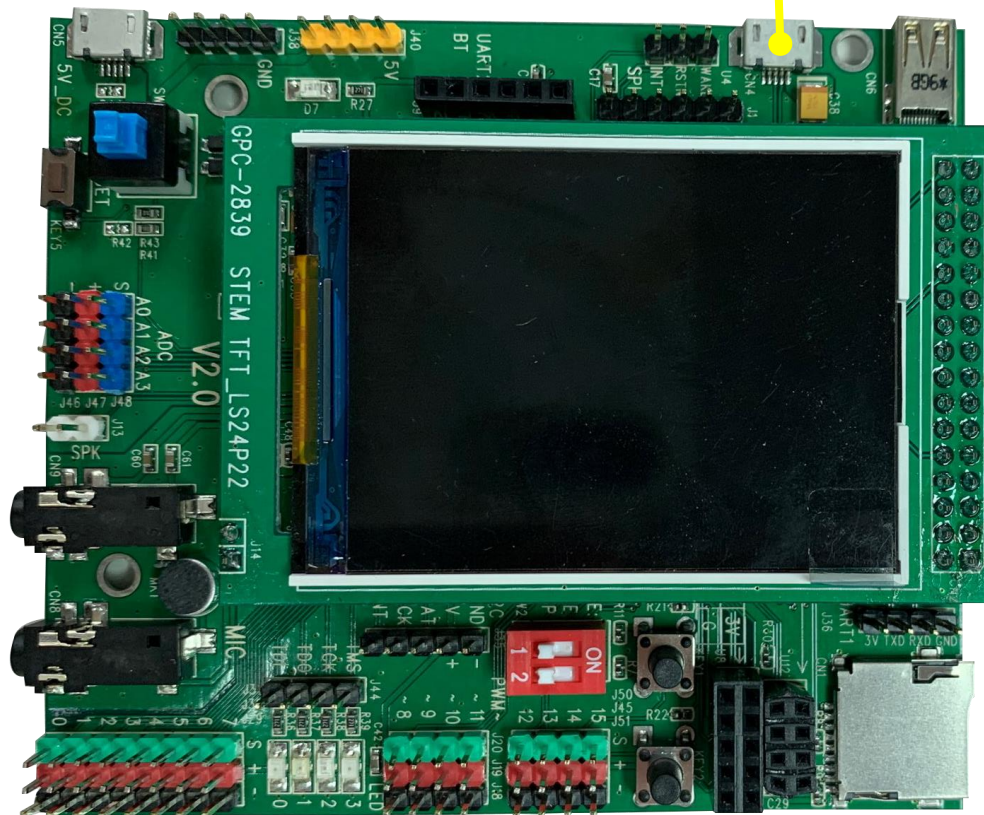


## 2. Micro USB to TypeA



### 電源供應線

- ◆ Micro USB
- ◆ Type A



### 3. 麵包板、按鈕、LED

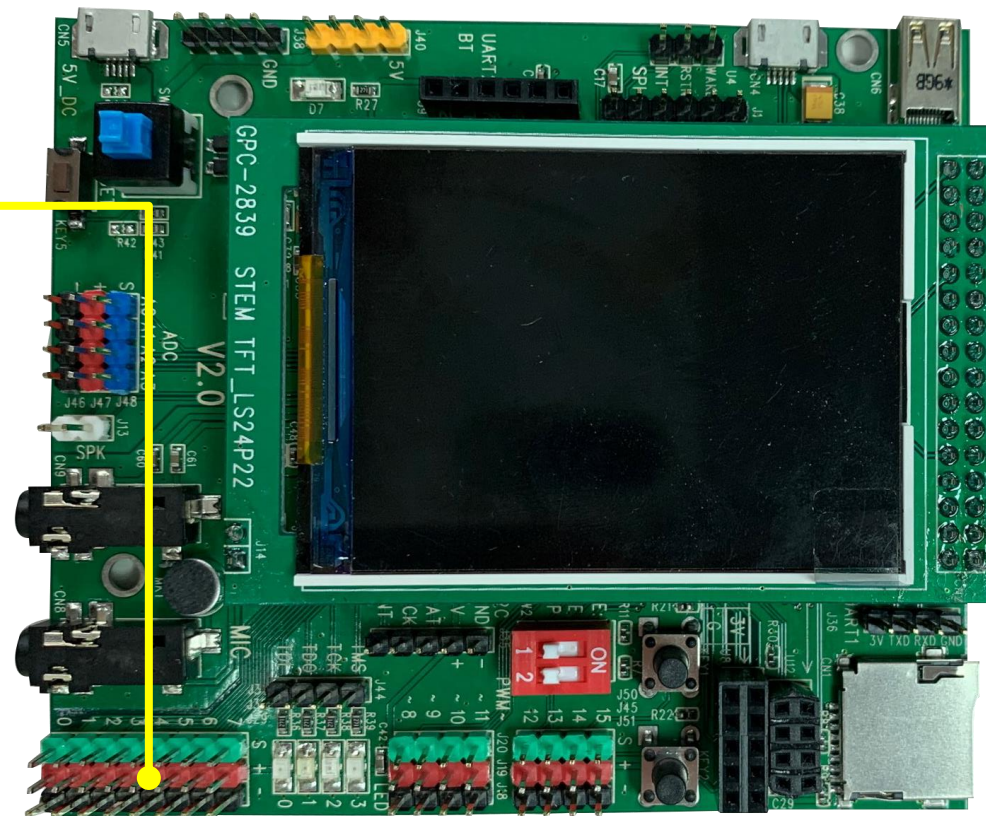
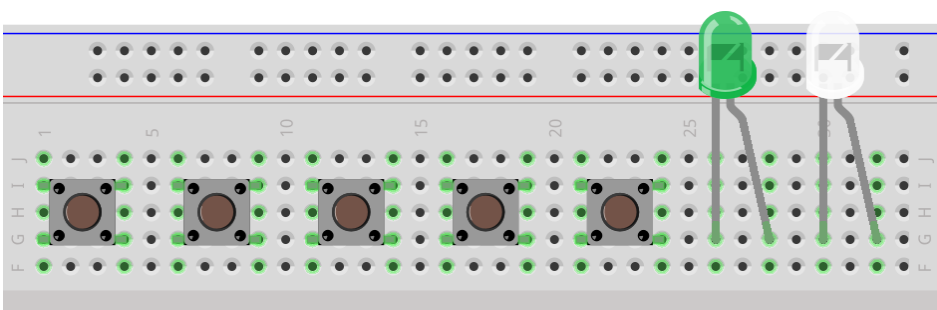
I00	I01	I02	I03	I04	I05	I06	I07
C0	C1	C2	C3	F0	F1	F2	F3
3.3V							
GND							

Key  
一腳 ■ Genio Py. I00-4

一腳 ■ VCC

LED  
短腳 ■ Genio Py. I06-7

長腳 ■ VCC



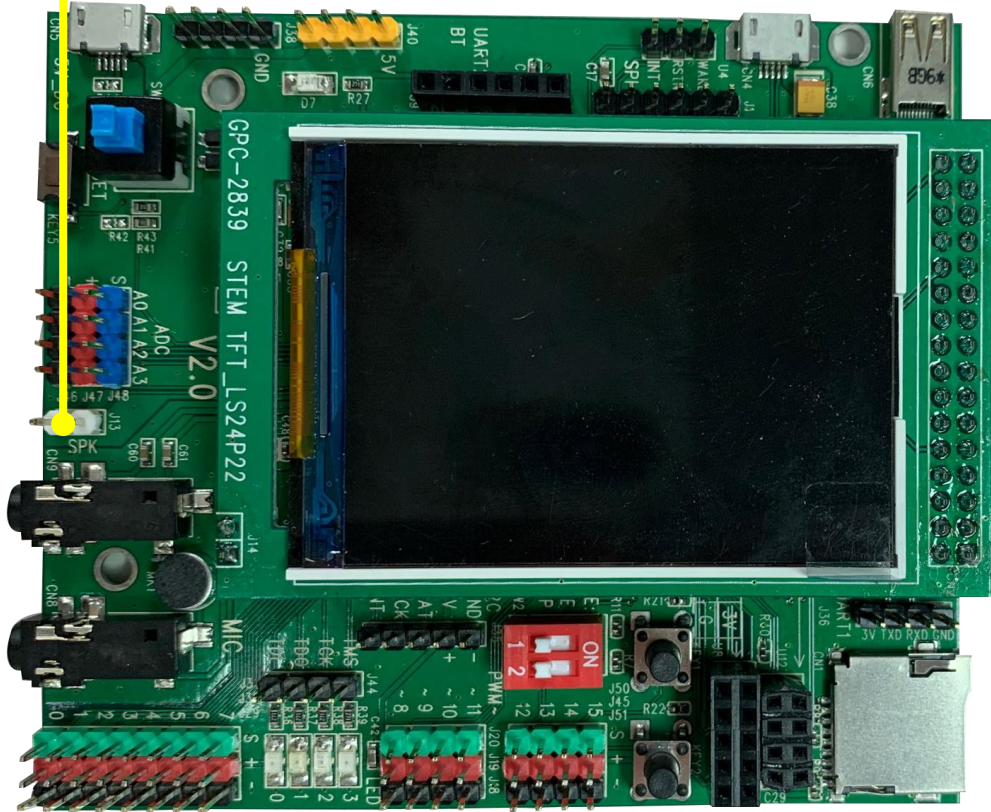
範例圖, 使用Fritzing繪製

## 4. 喇叭



### 喇叭盒

- ◆ 8Ω / 0.5w 喇叭
- ◆ 杜邦母頭紅黑雙絞線



A cluster of five triangles in shades of red, pink, and grey, arranged in a semi-circle above the word 'THANKS'.

THANKS

名威智慧通訊有限公司

