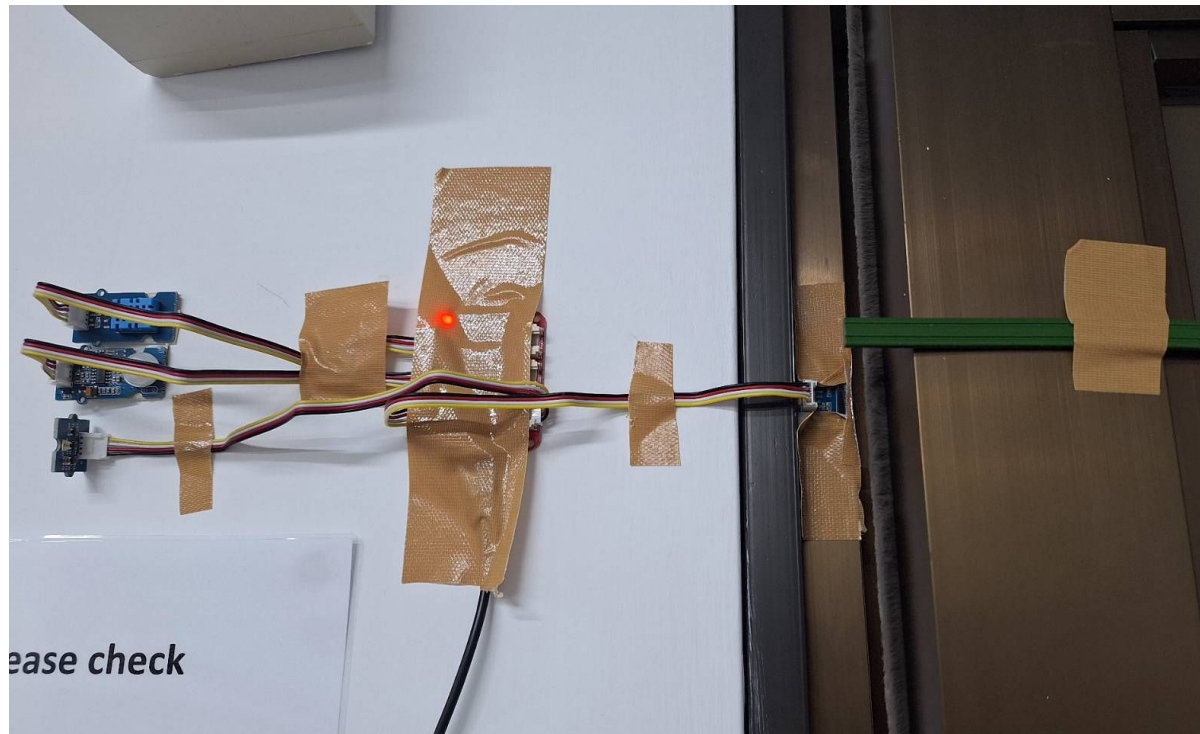
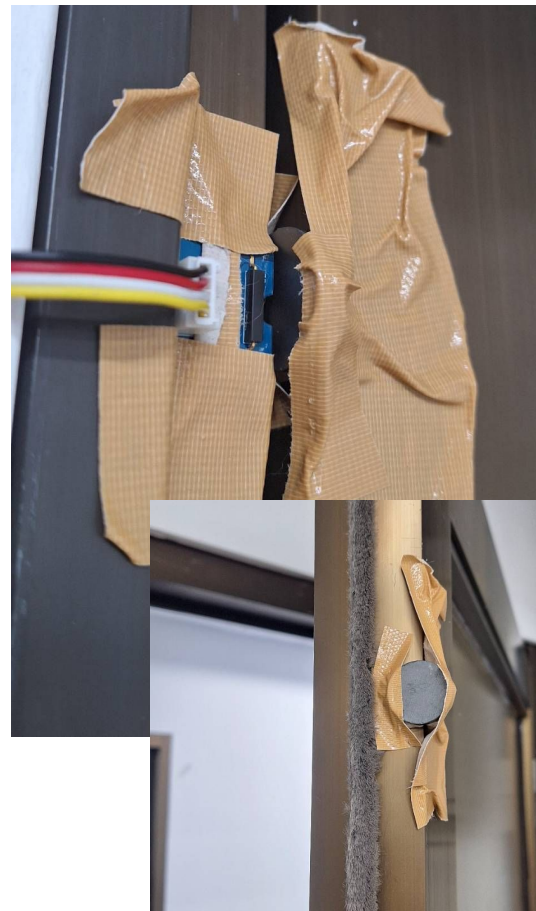


門開關感測器

1.0

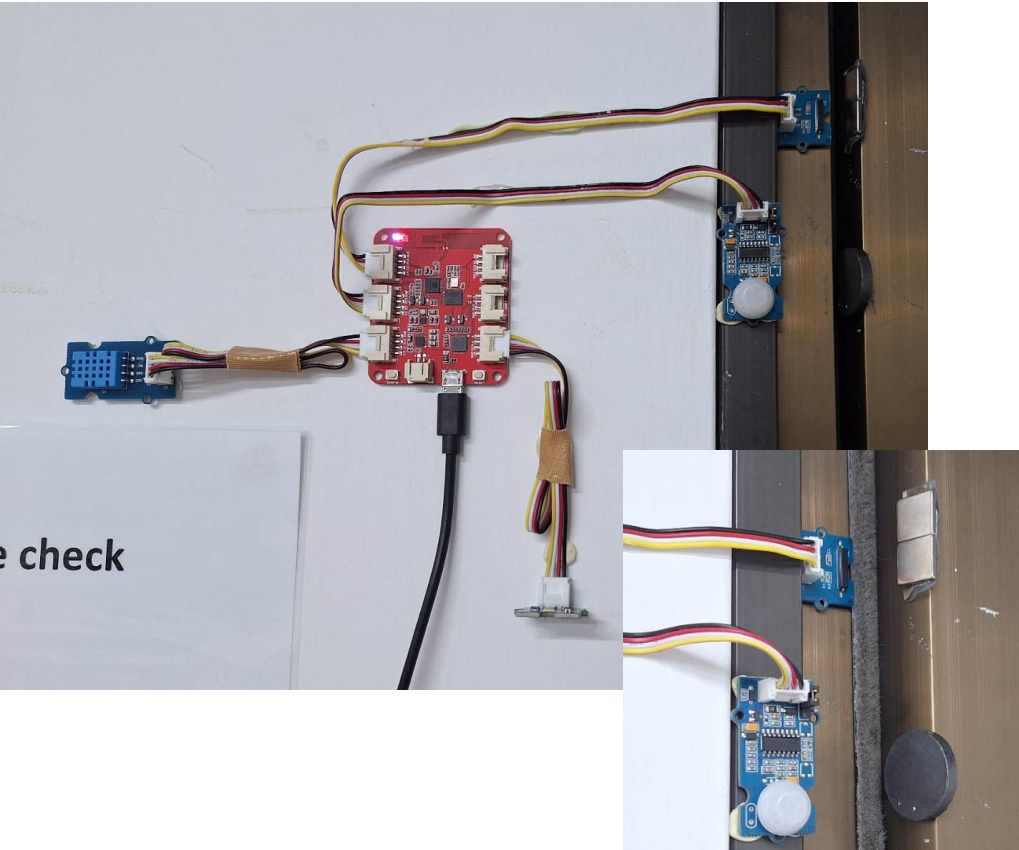


2.0



門開關感測器

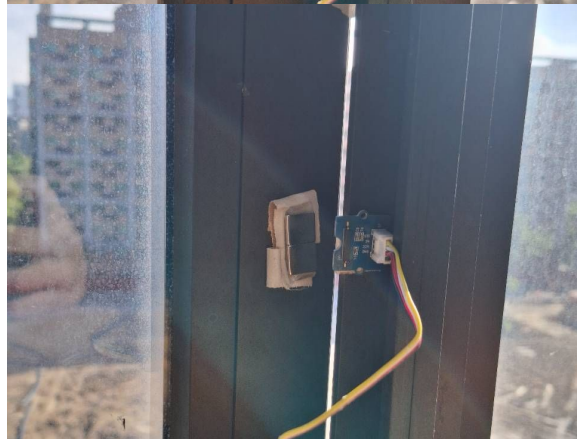
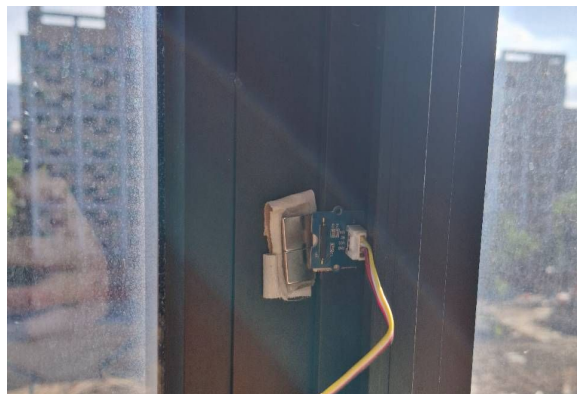
3.0 強力磁鐵 24mm*12mm



4.0



窗開關感測器



Specifications

| Items | Min | Norm | Max | Unit |
|------------------------------------|------------------|------|------|------|
| Working Voltage | 3.3 | 5.0 | 5.25 | V |
| Switched Power | 10 | | | W |
| Switched Voltage AC,RMS value(max) | < 140 | | | V |
| Switched Current DC | < 500 | | | mA |
| Carry Current DC | < 0.5 | | | A |
| Contact Resistance | <200 | | | mΩ |
| Insulation Resistance | >10 ⁶ | | | MΩ |
| Operating Temperature | -40 | - | 125 | °C |
| Operate Range | 10 | - | 40 | AT |

magnetic switch
的耐熱



萬用黏土拆下來的時候很難把牆壁
清很乾淨(參考六樓貼過海報的牆面)

奈米膠怕長期後難拆下來 黏性頗強

溫溼度感測器

| Items | Conditions | Min | Norm | Max | Unit |
|--------------------------|-------------|-----|------|-----|---------|
| VCC | - | 3.3 | - | 5 | Volts |
| Measuring Current Supply | - | 1.3 | - | 2.1 | mA |
| Average Current Supply | - | 0.5 | - | 1.1 | mA |
| Measuring Range | Humidity | 20% | - | 90% | RH |
| | Temperature | 0 | - | 50 | °C |
| Accuracy | Humidity | - | - | ±5% | RH |
| | Temperature | | | ±2 | °C |
| Sensitivity | Humidity | | - | 1% | RH |
| | Temperature | | | 1 | °C |
| Repeatability | Humidity | | | ±1% | RH |
| | Temperature | | | ±1 | °C |
| Long-term Stability | | | | ±1% | RH/year |










數位光感測器

vlab燈全開 感測器面朝上 就會
超過其感測值範圍 回傳null

Features

- Selectable detection modes
- High resolution 16-Bit digital output at 400 kHz I2C Fast-Mode
- Wide dynamic range: 0.1 - 40,000 LUX
- Wide operating temperature range: -40°C to 85°C
- Programmable interrupt function with User-Defined Upper and lower threshold settings
- I2C Address 0x29

Python+PostgreSQL+工作排程器 ngork

| | id [PK] integer  | timestamp timestamp with time zone  | sensor_name text  | humidity double precision  | light_intensity double precision  | motion_detected integer  | celsius_degree double precision  | mag_approach integer  | door_status text  |
|-----|--|---|---|--|---|--|--|---|---|
| 194 | 194 | 2025-07-03 15:11:05.195529+08 | wiolink door | [null] | [null] | [null] | [null] | [null] | [null] |
| 195 | 195 | 2025-07-03 15:25:56.224328+08 | wiolink2 | 42 | 573 | 0 | 33 | [null] | [null] |
| 196 | 196 | 2025-07-03 15:26:12.369796+08 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed |
| 197 | 197 | 2025-07-03 15:40:52.163622+08 | wiolink2 | 42 | 661 | 0 | 33 | [null] | [null] |
| 198 | 198 | 2025-07-03 15:41:05.593884+08 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed |
| 199 | 199 | 2025-07-03 15:57:05.600667+08 | wiolink2 | 41 | 705 | 0 | 33 | [null] | [null] |
| 200 | 200 | 2025-07-03 15:57:19.516243+08 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed |
| 201 | 201 | 2025-07-03 16:16:43.569295+08 | wiolink2 | 41 | 749 | 0 | 34 | [null] | [null] |
| 202 | 202 | 2025-07-03 16:16:56.806583+08 | wiolink door | 65 | 44 | 1 | 28 | 1 | closed |
| 203 | 203 | 2025-07-03 16:25:55.748908+08 | wiolink2 | 41 | 705 | 0 | 34 | [null] | [null] |
| 204 | 204 | 2025-07-03 16:26:08.146175+08 | wiolink door | 65 | 44 | 0 | [null] | 1 | closed |
| 205 | 205 | 2025-07-03 16:40:53.531178+08 | wiolink2 | 40 | 749 | 0 | 33 | [null] | [null] |
| 206 | 206 | 2025-07-03 16:41:07.347095+08 | wiolink door | 65 | 88 | [null] | [null] | [null] | [null] |
| 207 | 207 | 2025-07-03 16:43:00.289929+08 | wiolink2 | 42 | 309 | 0 | 33 | [null] | [null] |
| 208 | 208 | 2025-07-03 16:43:09.867979+08 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed |
| 209 | 209 | 2025-07-03 16:55:52.141266+08 | wiolink2 | 43 | 485 | 0 | 33 | [null] | [null] |
| 210 | 210 | 2025-07-03 16:56:04.80754+08 | wiolink door | 65 | 441 | 0 | 28 | 1 | closed |

wiolink2 的溫溼度感測器貼在窗框上 下午太陽直射 溫度高

Python+Supabase+github action

| | | | | | | | | | | |
|--|---------|----------------------------|------------------|-----------------|------------------------|------------------------|-----------------------|---------------------|------------------|--|
| wiolink | | | | | | | | | | |
| Filter Sorted by 1 rule Insert Add RLS policy Role postgres Re | | | | | | | | | | |
| | id int8 | timestamp timestamp | sensor_name text | humid... flo... | light_intensity float8 | motion_detected float8 | celsius_degree float8 | mag_approach float8 | door_status text | |
| | 1040 | 2025-07-03 17:11:56.815037 | wiolink door | 65 | 44 | 1 | 28 | 1 | closed | |
| | 1039 | 2025-07-03 17:10:57.929011 | wiolink2 | NULL | NULL | 0 | 33 | NULL | NULL | |
| | 1038 | 2025-07-03 16:56:04.80754 | wiolink door | 65 | 441 | 0 | 28 | 1 | closed | |
| | 1037 | 2025-07-03 16:55:52.141266 | wiolink2 | 43 | 485 | 0 | 33 | NULL | NULL | |
| | 1036 | 2025-07-03 16:54:49.129728 | wiolink door | 65 | 44 | 1 | 28 | 1 | closed | |
| | 1035 | 2025-07-03 16:54:43.902845 | wiolink2 | 42 | 573 | 0 | 33 | NULL | NULL | |
| | 1034 | 2025-07-03 16:43:09.867979 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed | |
| | 1033 | 2025-07-03 16:43:00.289929 | wiolink2 | 42 | 309 | 0 | 33 | NULL | NULL | |
| | 1032 | 2025-07-03 16:41:07.347095 | wiolink door | 65 | 88 | NULL | NULL | NULL | NULL | |
| | 1031 | 2025-07-03 16:40:53.531178 | wiolink2 | 40 | 749 | 0 | 33 | NULL | NULL | |
| | 1030 | 2025-07-03 16:26:14.918594 | wiolink door | 65 | 88 | 0 | 28 | 1 | closed | |
| | 1029 | 2025-07-03 16:26:08.146175 | wiolink door | 65 | 44 | 0 | NULL | 1 | closed | |
| | 1028 | 2025-07-03 16:26:06.114674 | wiolink2 | 40 | 705 | 0 | 34 | NULL | NULL | |
| | 1027 | 2025-07-03 16:25:55.748908 | wiolink2 | 41 | 705 | 0 | 34 | NULL | NULL | |
| | 1026 | 2025-07-03 16:16:56.806583 | wiolink door | 65 | 44 | 1 | 28 | 1 | closed | |
| | 1025 | 2025-07-03 16:16:43.569295 | wiolink2 | 41 | 749 | 0 | 34 | NULL | NULL | |
| | 1024 | 2025-07-03 15:57:19.516243 | wiolink door | 65 | 44 | 0 | 28 | 1 | closed | |
| | 1023 | 2025-07-03 15:57:05.600667 | wiolink2 | 41 | 705 | 0 | 33 | NULL | NULL | |

自定位

在每塊 WioLink 板上手動寫死「教室代碼」

如果 Wi-Fi 無法提供可靠定位, 最簡單的方式是:

每塊板子都設定一個固定 location 值(例如在 Python 腳本中寫死)

`device["location"] = "604"` 或直接改板子名稱

這樣每塊板子送出的資料就自帶位置資訊, 不靠網路偵測

lora

```
# 所有板子的設定
DEVICES = [
    {
        "name": "wiolink2", # 裝置名稱 可加教室編號
        "token": "ad721465a96333625477b3690643f076" # 裝置的存取
    },
    {
        "name": "wiolink door",
        "token": "96c7644289c50aff68424a490845267f"
    }
]
```

自供能

Lipo Rider Pro板 (Seed原場)

[Lipo Rider Pro | Seeed Studio Wiki](#)

通過太陽能為鋰聚合物電池充電



Lipo Rider Pro 太陽能充電 USB 5V/1A 輸出穩壓專業板 seed

NT\$900 未稅

LiPo Rider Pro 可以讓你透過太陽能電力對您的設備進行穩定的 5V 輸出供電，搭配鋰聚合物電池方案，能夠讓你的MCU設備與感測器在戶外持續的運作。
本商品出貨不含圖片裡的鋰電池跟太陽能板，若有需要請加購。

尚有庫存



- ☒ 0.5W 5.5V 單晶矽太陽能電池板 SEED原廠 (C6-2) NT\$100
- ☐ 1W 5.5V 單晶矽太陽能電池板 (C7-5) NT\$160
- ☐ 1.5W 5.5V 單晶矽太陽能電池板 SEED原廠 (C5-1) NT\$240
- ☐ 3W 5.5V 單晶矽太陽能電池板 SEED原廠 (C7-4) NT\$420
- ☒ 3.7V 2000mAh 聚合物鋰電池-附JST接頭 NT\$300

選購金額

NT\$400

小計金額

NT\$900

1

加入購物車

Micro USB轉USB 數據傳輸線 30cm

NT\$29 未稅

Micro USB轉USB 數據傳輸線 30cm。

尚有庫存

1

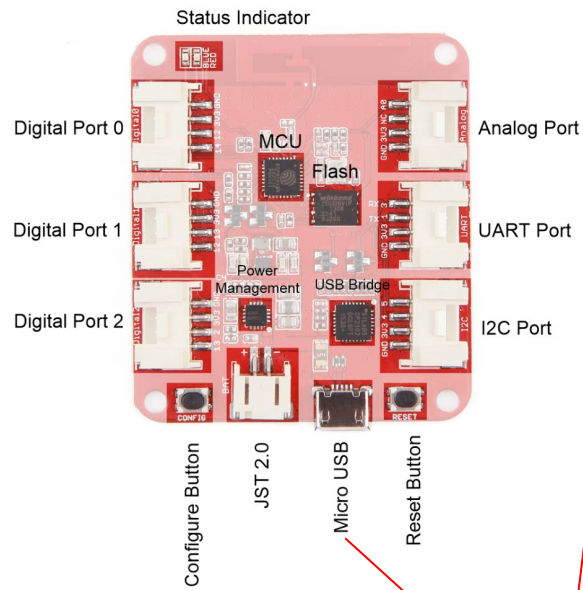
加入購物車

貨號：micro-usb

分類：線材/元件/其他商品

標籤：micro usb 傳輸線





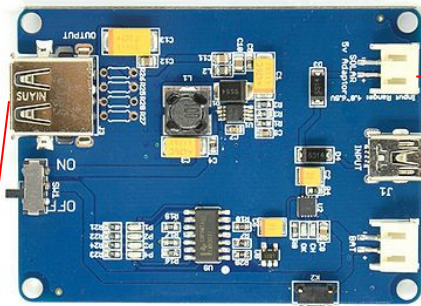
建議從 1W 起跳才能確保白天或日光燈下穩定輸出電流
(約 200mA~250mA)

NT\$160



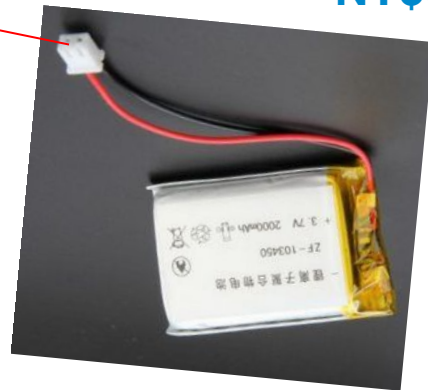
1W 5.5V 單晶矽太陽能電池板

NT\$500



Lipo Rider Pro

NT\$300



3.7V 2000mAh 聚合物鋰電池 (JST)

總價 NT\$989



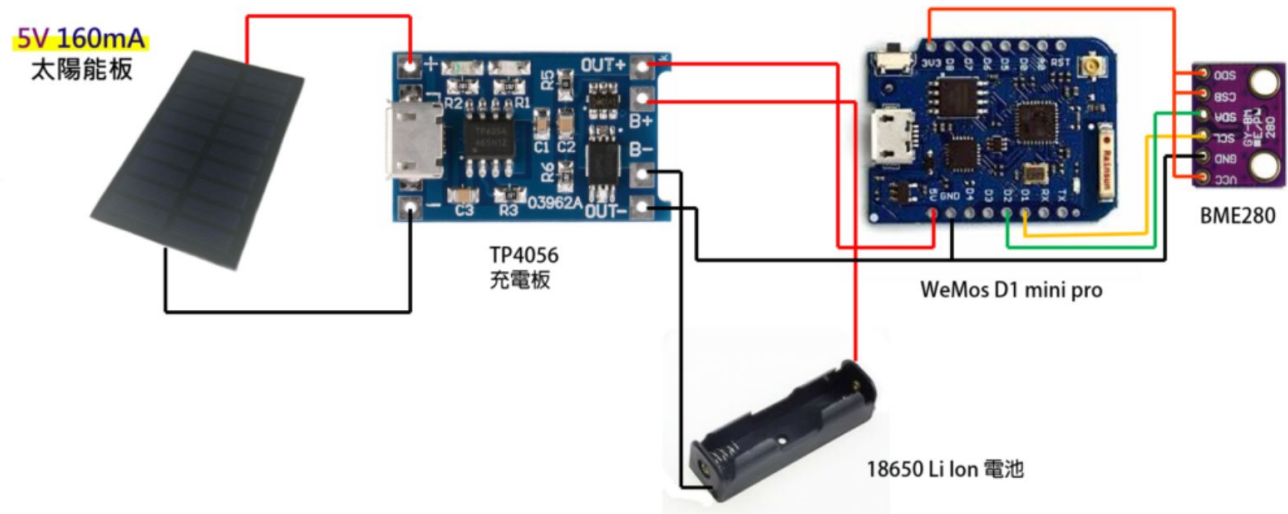
NT\$29

自供能

TP4056板 便宜 本身支援邊充邊放 (pass-through)，能一邊充電一邊讓板子供電

要焊接

焊接針腳、電路圖架構



| 元件 | 建議規格 | 估價 (NTD) |
|--------------|---------------------------------|---------------------|
| 太陽能板 | DFRobot FIT0601 (5 V/1 A) | 300- 400 |
| TP4056 模組 | 帶保護・小板型 | 50-100 |
| 鋰電池 | 18650/LiPo 2000-3000 mAh | 100- 200 |
| 升降壓模組 | Boost/Buck 5 V 或 3.3 V | 50-100 |
| 合計 | — | 600- 900 |

