

Lightning Talk

- Raspberry Pi Zero 網路解決方案

台灣樹莓派 <sosorry@raspberrypi.com.tw>
Dec 07, 2015/Raspberry Pi #12

CC (Creative Commons)

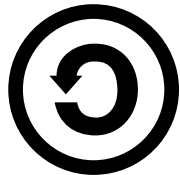
姓名標示 — 非商業性 — 相同方式分享



姓名標示 — 你必須給予 適當表彰、提供指向本授權條款的連結，以及 指出（本作品的原始版本）是否已被變更。你可以任何合理方式為前述表彰，但不得以任何方式暗示授權人為你或你的使用方式背書。



非商業性 — 你不得將本素材進行商業目的之使用。



相同方式分享 — 若你重混、轉換本素材，或依本素材建立新素材，你必須依本素材的授權條款來散布你的貢獻物。



關於台灣樹莓派

- element14 指定台灣地區 Raspberry Pi 個人用戶經銷商

BUY A PI

Buy a Pi and accessories from one of our distributors:

element14
powered by Premier Farnell

EGOMAN

RS

element14

Raspberry Pi Approved Resellers

To purchase Raspberry Pi or Accessories from one of our Approved Resellers please choose from a reseller below

Raspberry Pi Resellers by region - Asia Pacific

| | | |
|--|-----------------------------|---|
| Auseparts (Australia) | Leocom (Japan) | Orei Solutions (PVT) (Sri Lanka) |
| AusPi Technologies (Australia) | Eleparts Co. (Korea) | <u>Xiao Xiao Pang</u> (Taiwan) |
| Little Bird Electronics (Australia) | Icbang (Korea) | Globaltronic Intertrade (Thailand) |
| Wiltronics (Australia) | Leocom (Korea) | Quoc Viet Technology JSC (Vietnam) |

更多關於台灣樹莓派

- 專注於 Raspberry Pi 應用與推廣
- 舉辦社群聚會 / 工作坊 / 讀書會 / 黑客松

- Website :

- <https://www.raspberrypi.com.tw/>

- Facebook :

- 搜尋 RaspberryPi.Taiwan

- <https://www.facebook.com/RaspberryPi.Taiwan>

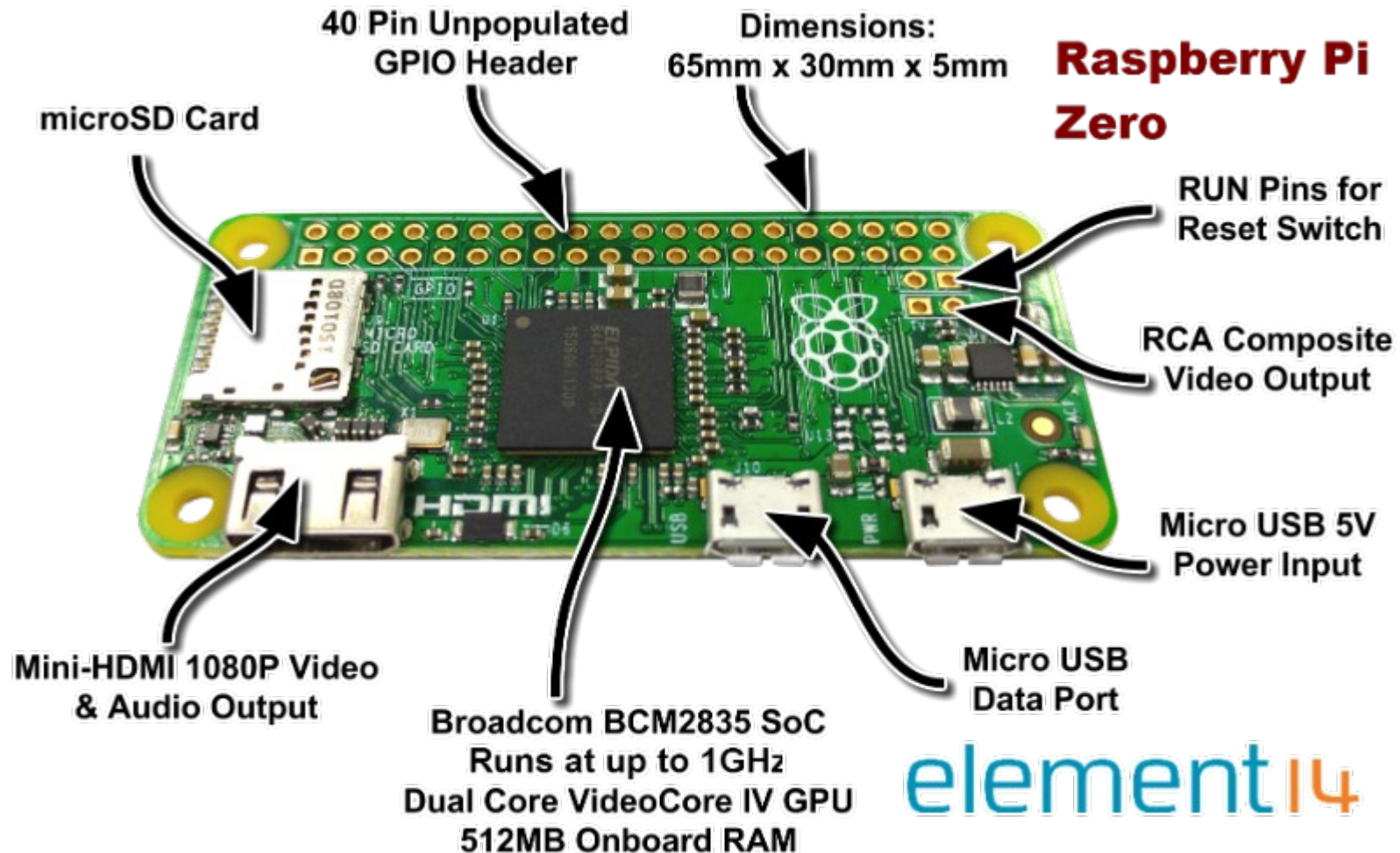


分享 x 社群

- COSCUP, MakerConf, PyCon 講者
- 投影片
 - <http://www.slideshare.net/raspberrypi-tw/presentations>
- 程式碼
 - <https://github.com/raspberrypi-tw>



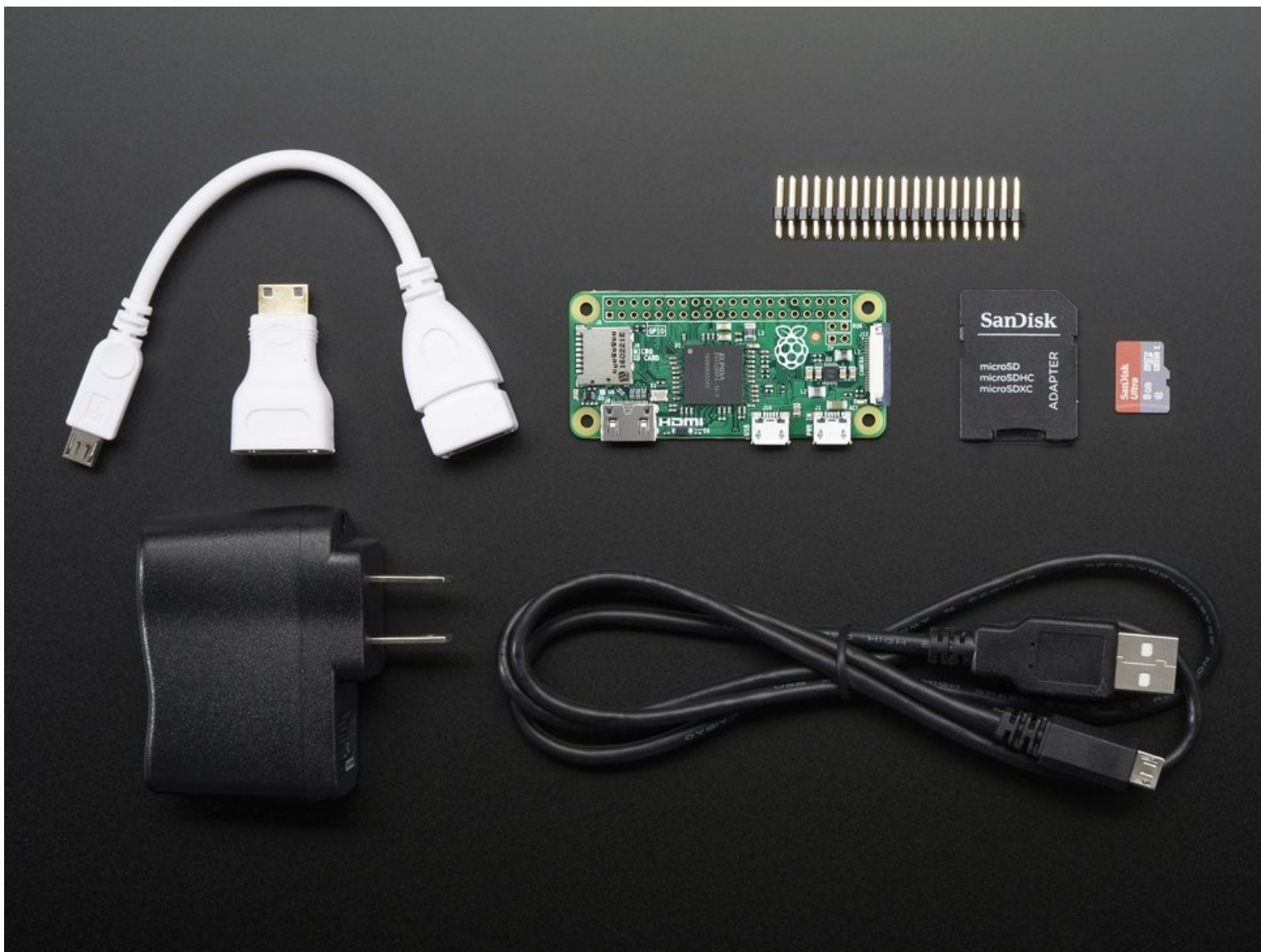
Raspberry Pi Zero



硬體規格

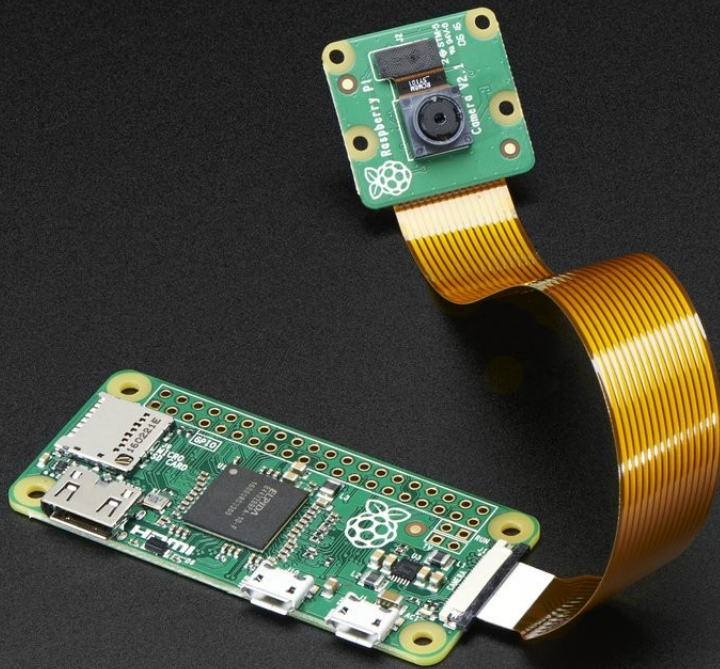
- CPU: BCM2835 chipset
 - 1GHz ARM11 core(40% faster than Raspberry Pi 1)
 - 512MB SDRAM
- Storage: MicroSD card
- Power: USB 5V(microUSB)
- Display: Mini-HDMI
- USB: 1 micro with OTG
- Dimension: 65mm 30mm 5mm

你可能會需要這些東西



<https://www.raspberrypi.com.tw/12179/2817/>

還可以加上相機模組 ...



電腦的演進

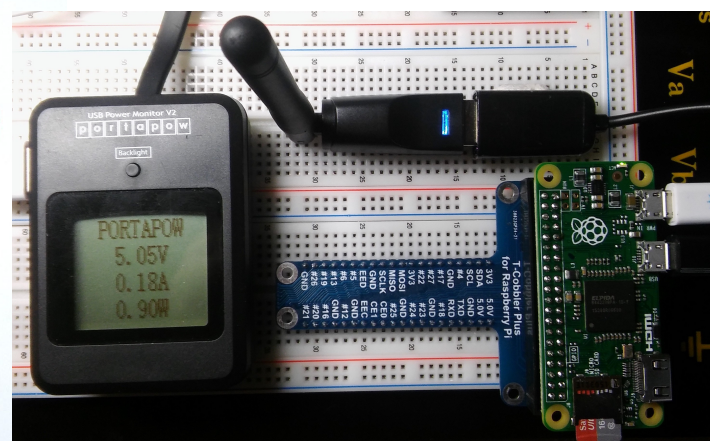
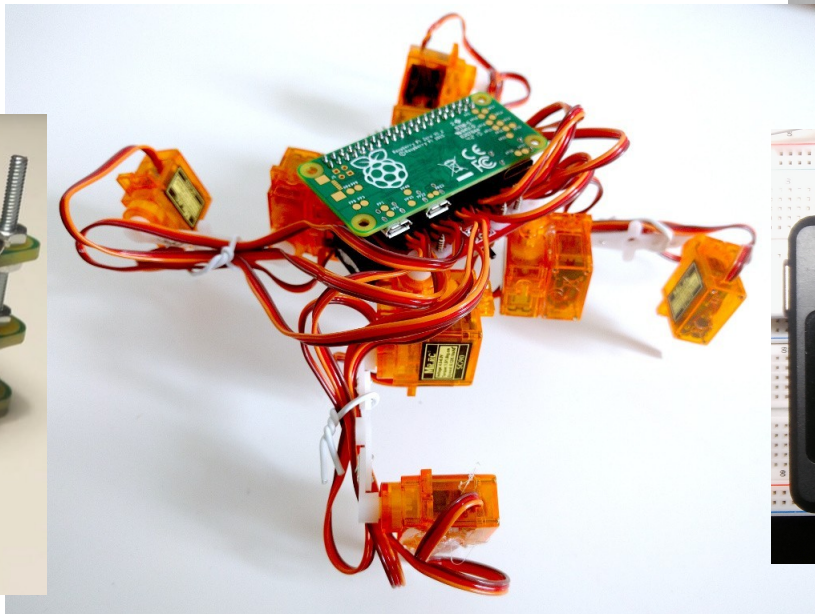
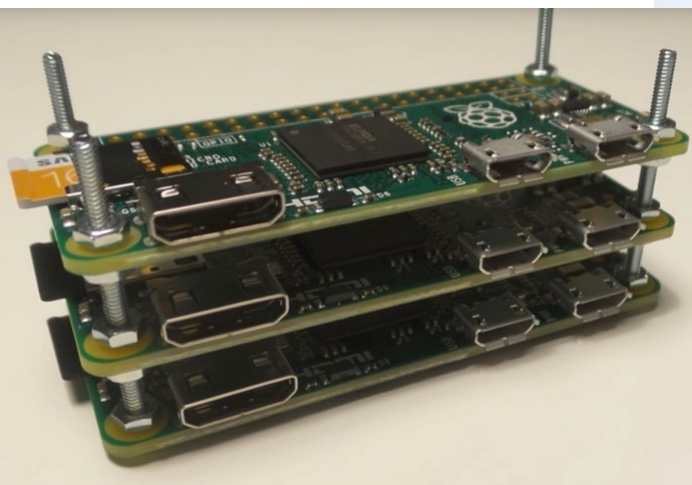
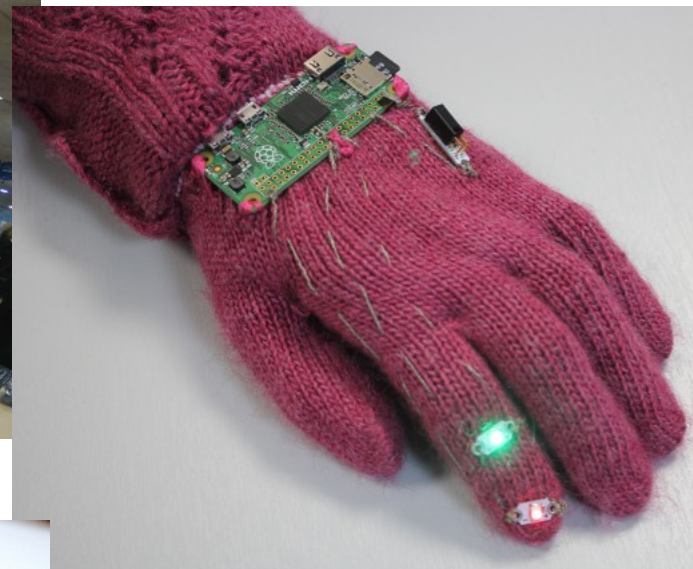
- 以前的電腦 =>



- 現在的電腦 =>



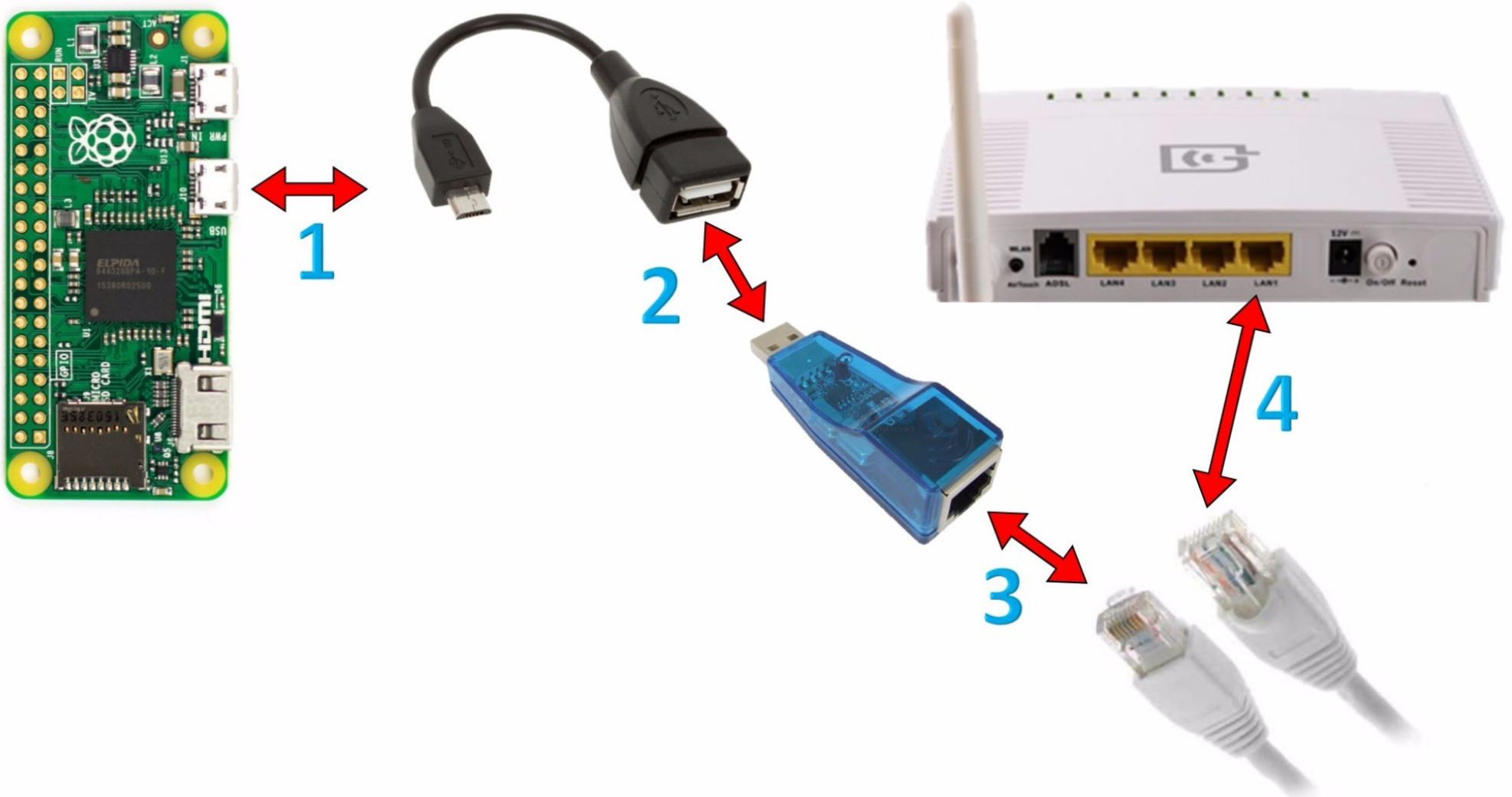
應用



如果要好用，還是需要有網路吧？

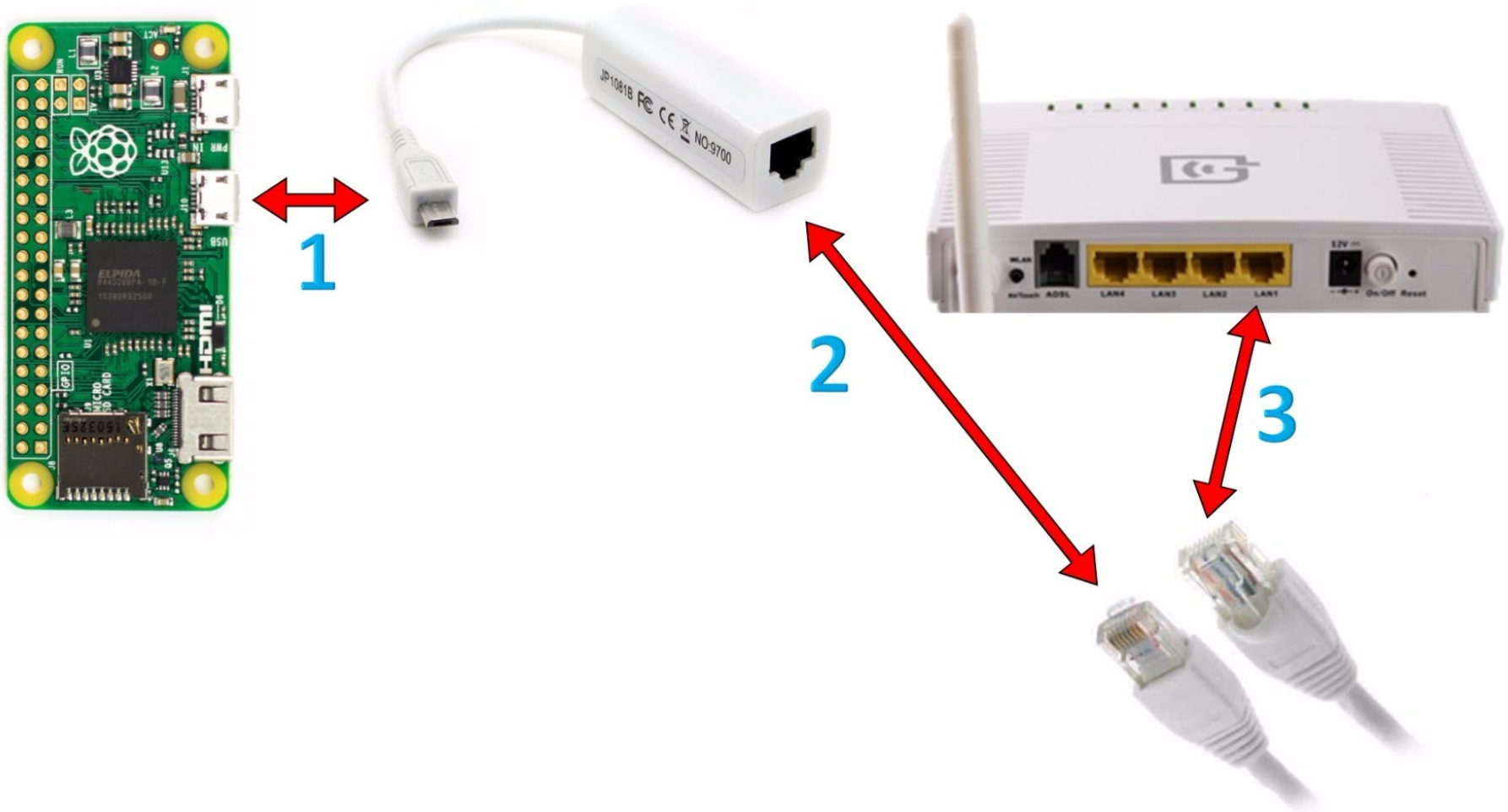
Ethernet

- OTG + USB to RJ45 Converter(HI I02NL)



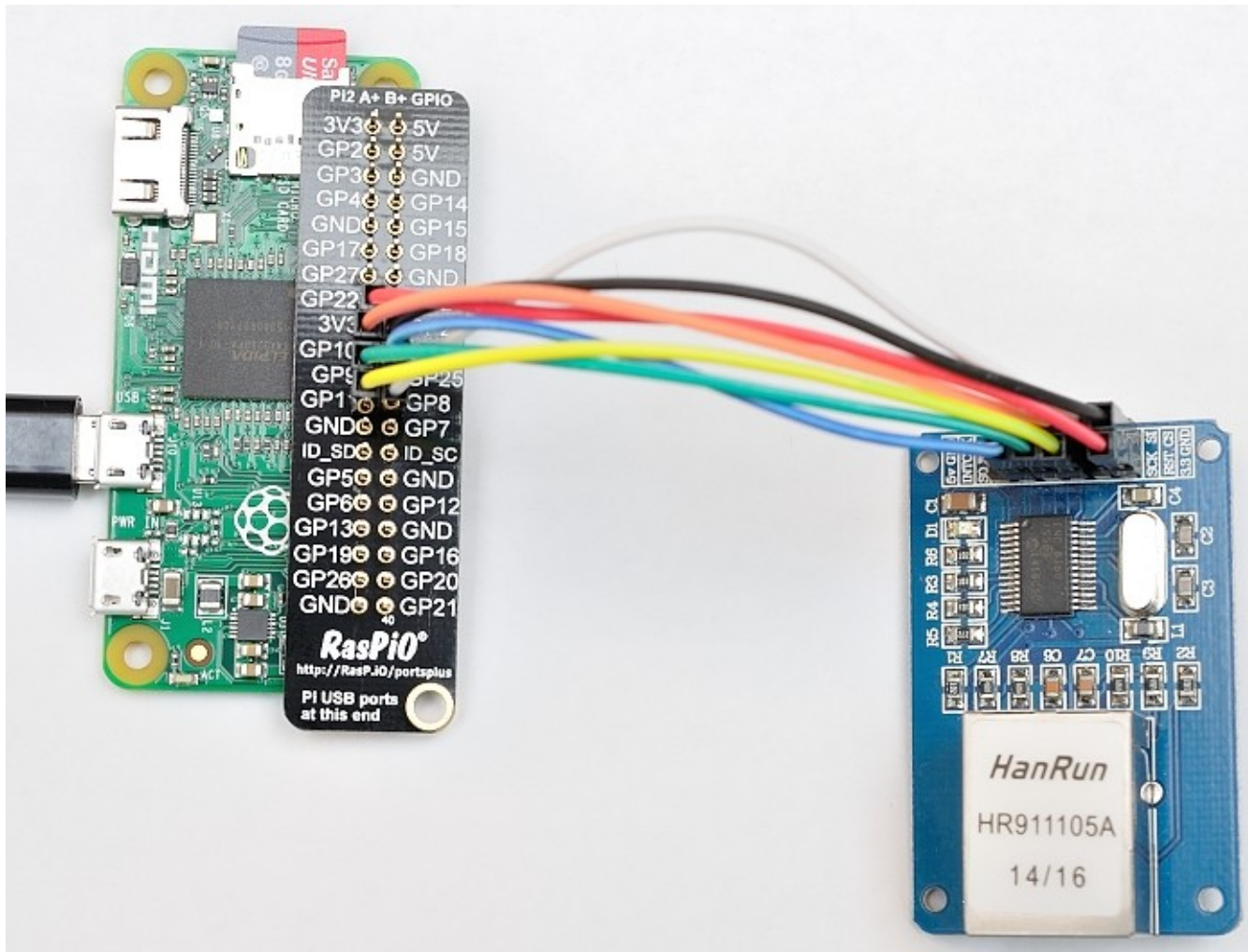
Ethernet

- OTG + USB to RJ45 Converter(SR9800)



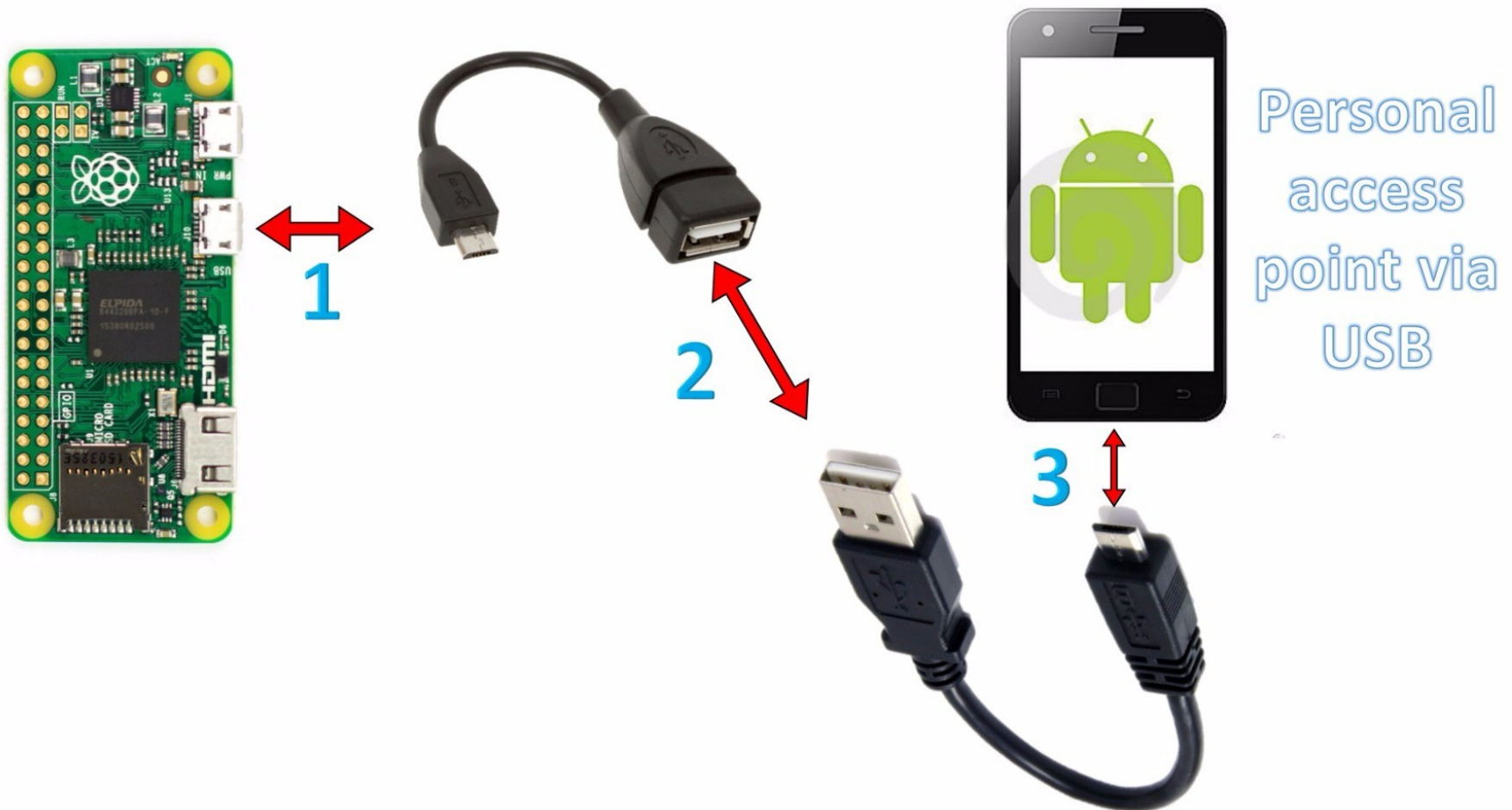
Ethernet

- Ethernet Module(ENC28J60)



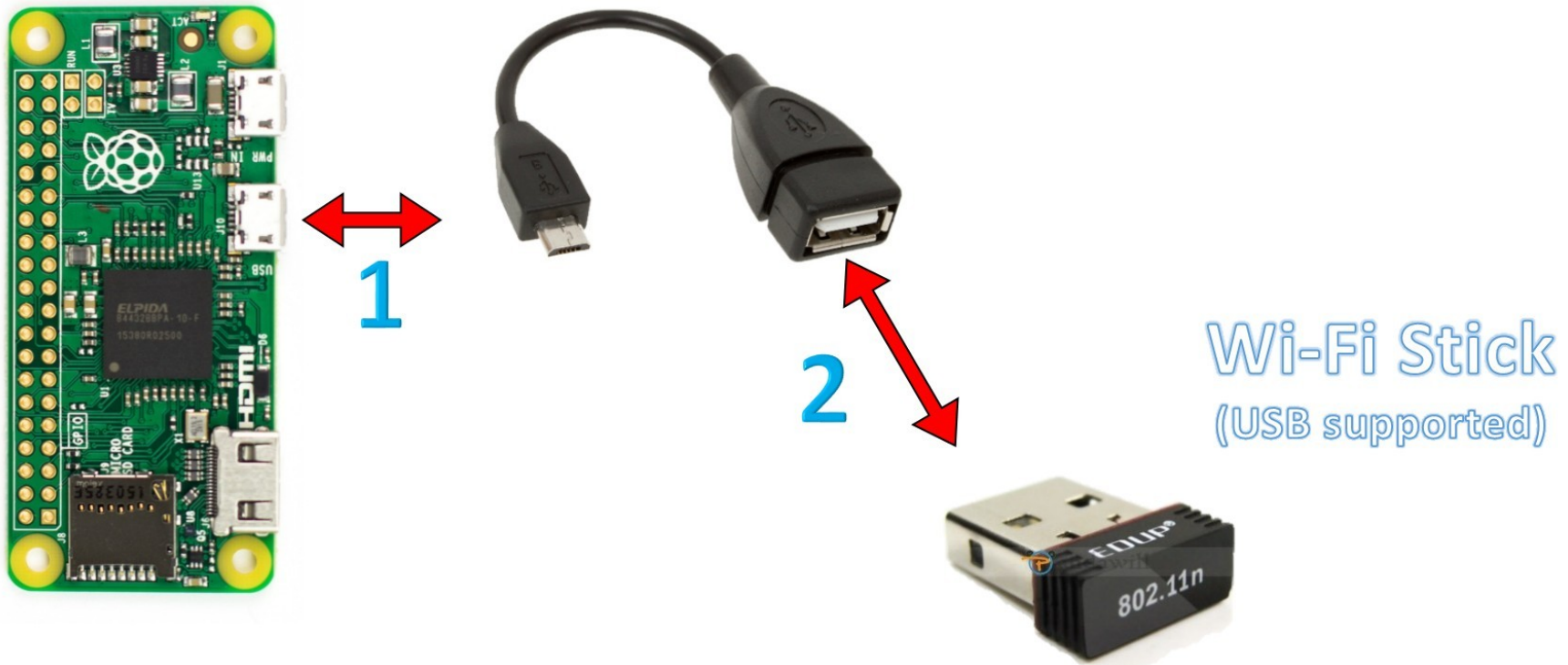
Tethering

- OTG + Sharing Internet connections via USB



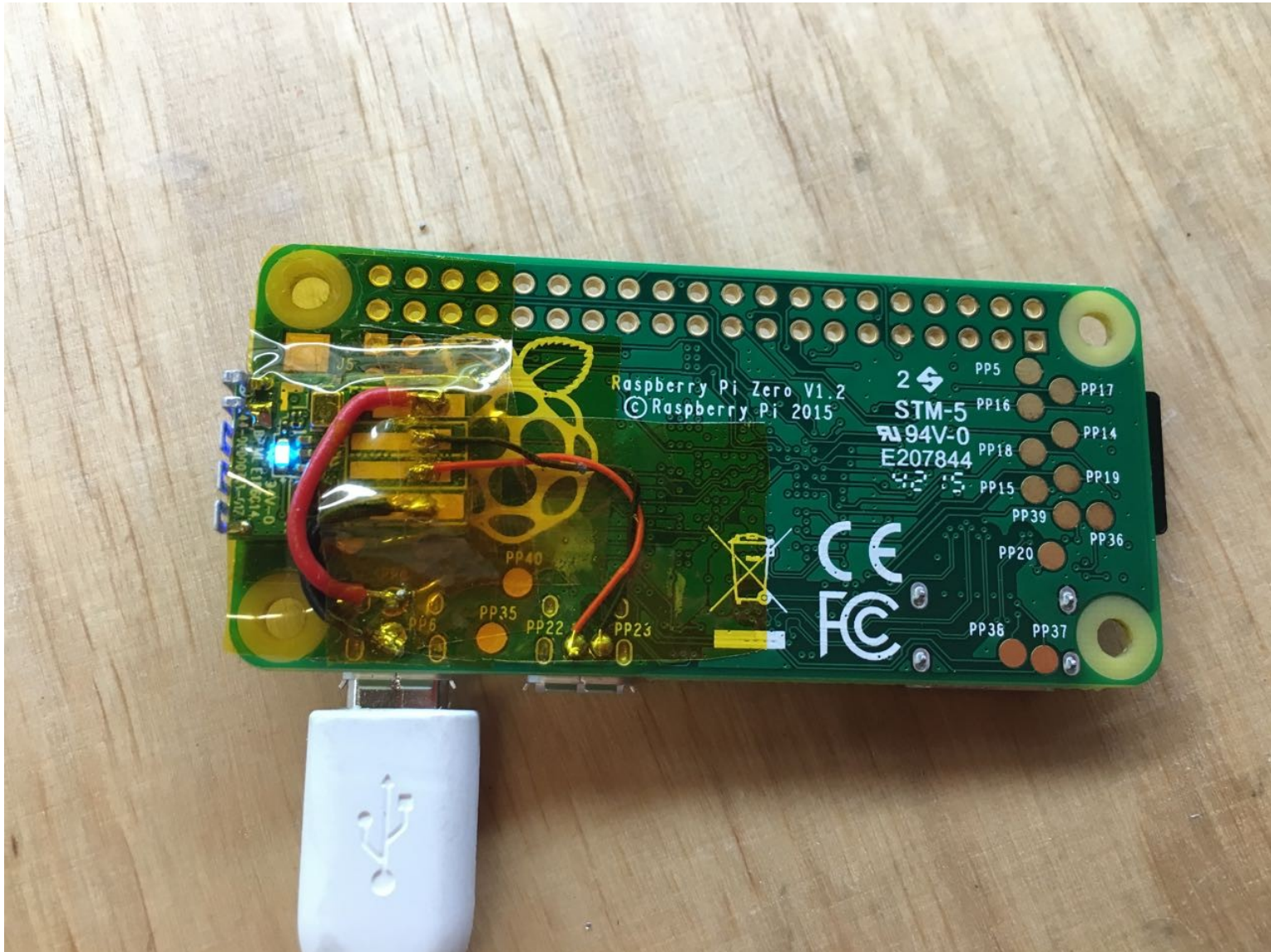
WiFi

- OTG + WiFi Dongle(RTL8188CUS)



WiFi

- Hack WiFi Dongle(RTL8188CUS)



<http://hackaday.com/2015/11/28/first-raspberry-pi-zero-hack-piggy-back-wifi/>

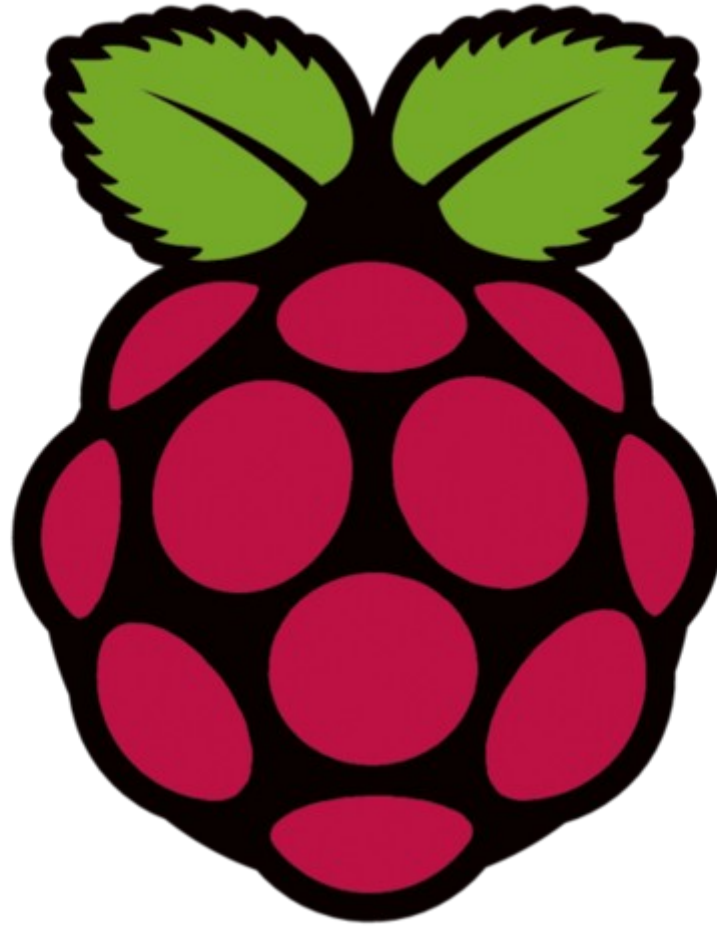
Speed Testing

\$ sudo speedtest-cli

| | Download | Upload |
|--|----------|--------|
| Ethernet - OTG + USB to RJ45 Converter(HI102NL) | 19.37 | 2.16 |
| Ethernet - OTG + USB to RJ45 Converter(SR9800) | 7.65 | 4.1 |
| Ethernet - Ethernet Module(ENC28J60) | 3.67 | 3.1 |
| WiFi - OTG + WiFi Dongle(RTL8188CUS) | 18.3 | 4.96 |
| WiFi - Hack WiFi Dongle(RTL8188CUS) | 16.5 | 3.92 |

單位：Mbit/s

Raspberry Pi Rocks the World



Thanks