Raspberry pi

09 May 2018   13:08

SPESIFIKASI:

The Raspberry Pi 3 Model B+ is the latest product in the Raspberry Pi 3 range.

- Broadcom BCM2837B0, Cortex-A53 (ARMv8) 64-bit SoC @ 1.4GHz
- 1GB LPDDR2 SDRAM (not expandable)
- 2.4GHz and 5GHz IEEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2, BLE
- Gigabit Ethernet over USB 2.0 (maximum throughput 300 Mbps)
- Extended 40-pin GPIO header
- Full-size HDMI
- 4 USB 2.0 ports
- CSI camera port for connecting a Raspberry Pi camera
- DSI display port for connecting a Raspberry Pi touchscreen display
- 4-pole stereo output and composite video port
- Micro SD port for loading your operating system and storing data
- 5V/2.5A DC power input
- Power-over-Ethernet (PoE) support (requires separate PoE HAT)

Konfigurasi network:

The `/etc/network/interfaces` used by **Jessie** should be:-

```
# interfaces(5) file used by ifup(8) and ifdown(8)

# Please note that this file is written to be used with dhcpcd
# For static IP, consult /etc/dhcpcd.conf and 'man dhcpcd.conf'

# Include files from /etc/network/interfaces.d:
source-directory /etc/network/interfaces.d

auto lo
iface lo inet loopback

iface eth0 inet manual

allow-hotplug wlan0
iface wlan0 inet manual
    wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf

allow-hotplug wlan1
iface wlan1 inet manual
    wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
```

```
iface eth0 inet dhcp      : default setting
```

Seeting manual/static

```
iface eth0 inet static
    Ipaddress  192.168.1.100
    Netmask 255.255.255.0
    Gateway 192.168.1.1    >> IP Address laptop sharing internet connection
```

Setting untuk VNC/remote desktop

ASESORI:

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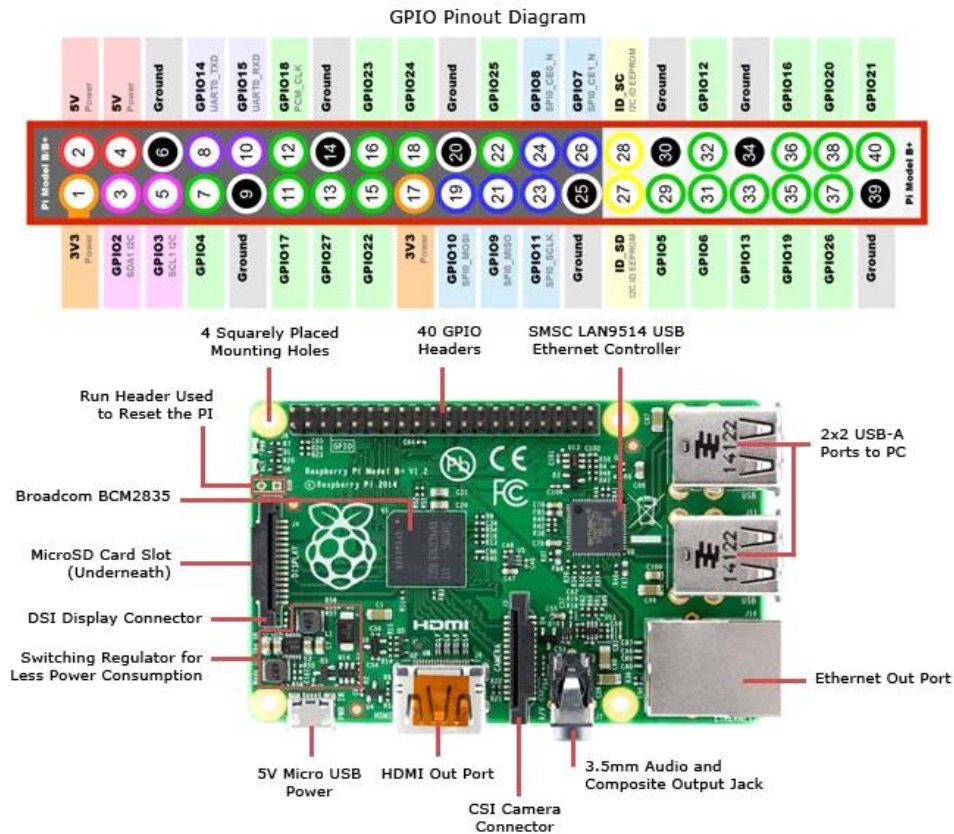**RASPBERRY PI ZERO CASE**

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GPIO Mapping

GPIO Pinout Diagram

Instalasi Sistem Operasi Raspberry pi:

1. Siapkan Raspberry
2. SD Card memory Minimal 8GB
3. Download file IMAGE sistem operasi dari website Raspberry :
   https://www.raspberrypi.org/downloads/raspbian/, download file *.zip (1.7GB gui) kemudian
   ekstraks menjaid file *.img (4.8GB)
4. Download aplikasi img writer "Etcher" (https://etcher.io/)
5. Jalankan Etcher: Pilih file *.img, pilih SDCard interface, kemudian FLASH