



## Raspberry Pi 4

### Spesifikasi:

Processor : Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz

Memory : 1GB, 2GB, 4GB or 8GB LPDDR4 (depending on model) with on-die ECC

Connectivity :

- 2.4 GHz and 5.0 GHz IEEE 802.11b/g/n/ac wireless LAN, Bluetooth 5.0, BLE
- Gigabit Ethernet
- 2 × USB 3.0 ports
- 2 × USB 2.0 ports

GPIO : Standard 40-pin GPIO header

Video & Sound :

- 2 × micro HDMI ports (up to 4Kp60 supported)
- 2-lane MIPI DSI display port
- 2-lane MIPI CSI camera port
- 4-pole stereo audio and composite video port

Multimedia :

- H.265 (4Kp60 decode)
- H.264 (1080p60 decode, 1080p30 encode)
- OpenGL ES, 3.0 graphics

SD Card Support :

Micro SD card slot for loading operating system and data storage

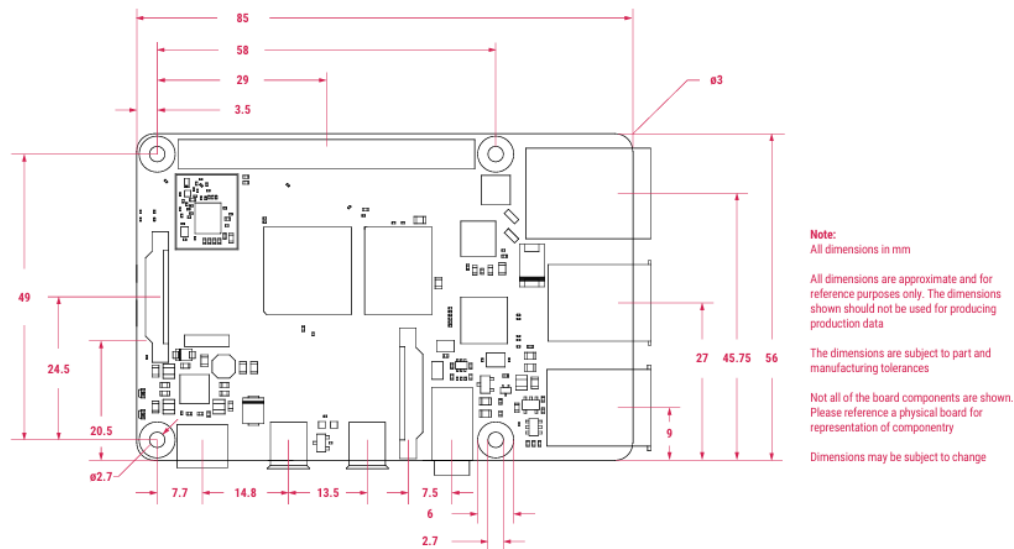
Input Power :

- 5V DC via USB-C connector (minimum 3A1)
- 5V DC via GPIO header (minimum 3A1)
- Power over Ethernet (PoE)–enabled (requires separate PoE HAT)

Environment : Operating temperature 0–50°C

Production lifetime :

Raspberry Pi 4 Model B will remain in production until at least January 2034



Source : [raspberry-pi-4-product-brief.pdf \(raspberrypi.com\)](https://www.raspberrypi.com/documentation/hardware/raspberry-pi/4/product-brief.pdf)

Cara setup raspberry pi

1. Download software yang dibutuhkan  
Download operating system dari web official [raspberrypi.org](https://www.raspberrypi.org). Contoh OS nya **Raspbian Buster** yang dimana di rekomendasikan untuk beginner  
Download Raspberry Pi Imager dari website yang sama. Ini untuk writing image file ke SD Card.  
Untuk akses desktop dari pi, kita bisa hubungkan micro ke HDMI connector dari pi ke monitor atau kamu bisa akses secara remotely ke PC/laptop.
2. Writing OS to SD Card  
Buka Raspberry Pi Imager dan pilih custom setup dan pilih OS yang kalian download.
3. Creating "ssh" File
4. Power Up Pi  
Connect ethernet cable ke PC/laptop dan power up raspberry pi kamu dengan type-C cable.
5. Sharing Network
6. Entering Pi Terminal melalui Ssh
7. Update Pi
8. Accessing Pi Desktop Remotely  
Kita akses Pi Desktop melalui VNC
9. Sudah deh Sekarang kita bisa akses raspberry pi kita