

Five Steps to Set up Raspberry Pi

Contents:

- Prepare a micro SD card
- Burn/ write OS image into SD card
- Connect monitor with your raspi
- Power on raspi and monitor
- Boot raspbian OS

1. Prepare a micro SD card

- (1) Properties of Micro SD card as follows:
- (2) Capacity: 32GB
- (3) Speed: Class10
- (4) File format: Fat16/Fat32

2. OS suitable for raspi:

- (1) Raspbian which is based on Debian Linux, is recommended by official website of raspi. It is suitable for all types of raspberry pi.
- (2) Other OS supported for raspi:
- (3) Ubuntu Mate/ Windows 10 IoT Core

3. Burn/ write OS image into SD card

- (1) Download NOOBS from official webpage: <https://www.raspberrypi.org>
- (2) Unzip “NOOBS.zip”, and copy all of the extracted files to the SD card.

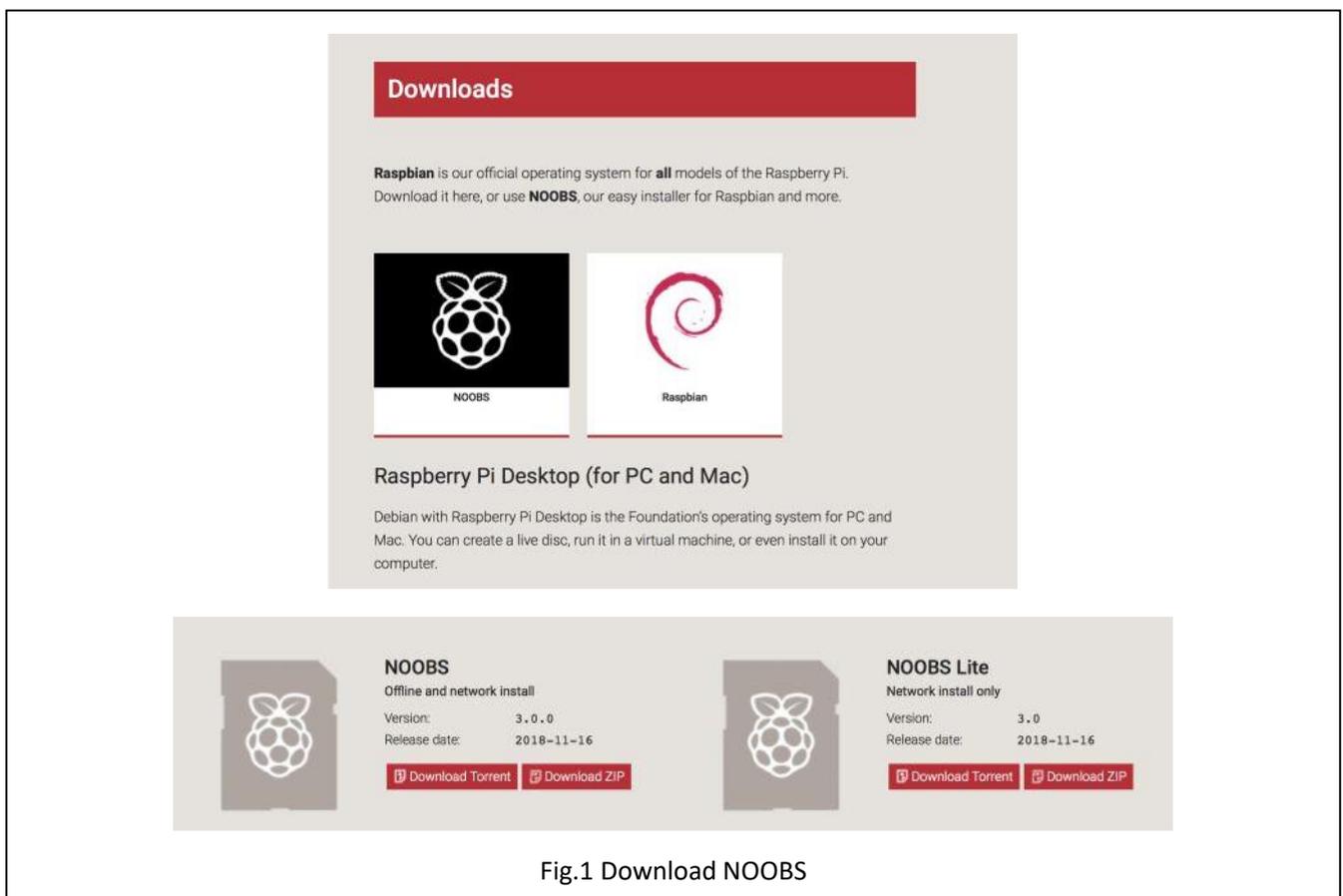


Fig.1 Download NOOBS

4. Connect monitor and peripheral devices to the raspi

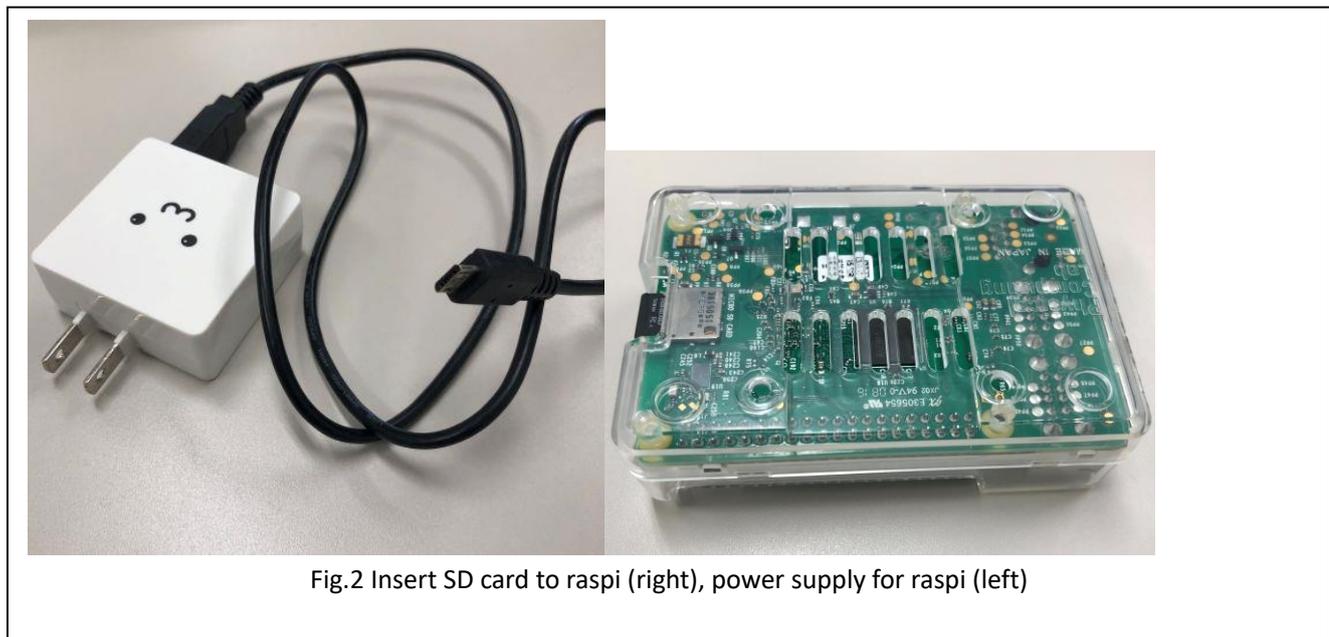
Note: A monitor/ display with HDMI port is preferable

Peripheral devices include: Mouse/ Keyboard/ Display

5. Insert SD card and power on the raspi

(1) Insert SD card to the raspberry pi

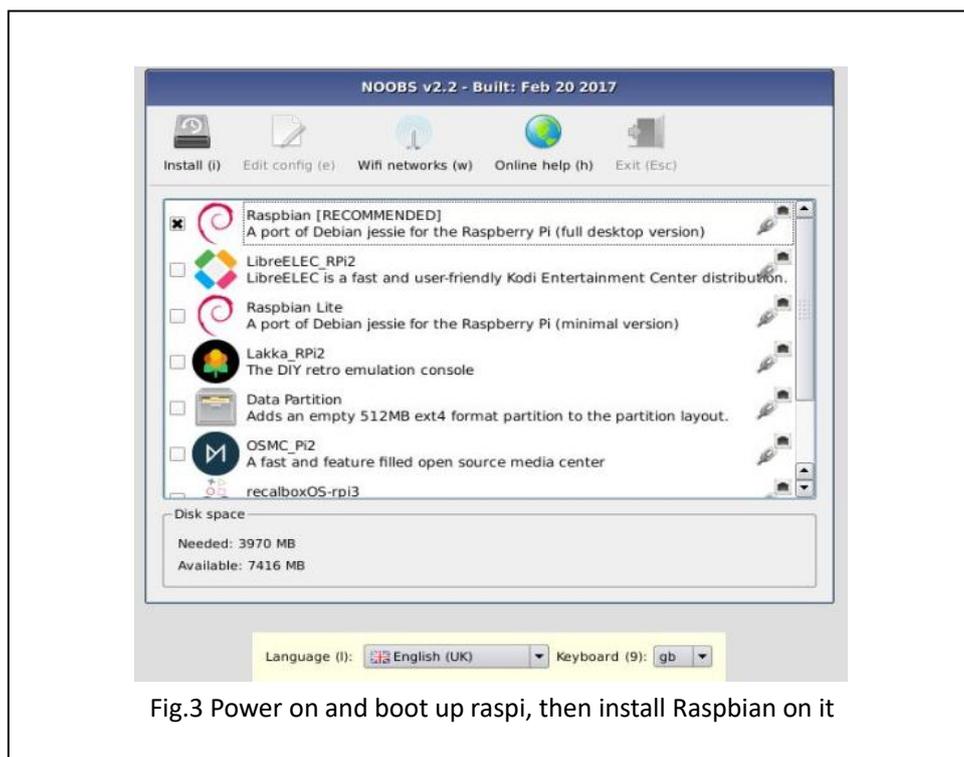
(2) Requirement of power supply: input: 5V; output: 1A; micro- USB interface



(3) After power on the raspi, the following screen will show on the display.

(4) Wait for around 20 minutes for installation of Raspbian OS, then the following scene (Fig.5) will show on the display.

This indicates the installation process of Raspbian is successful.



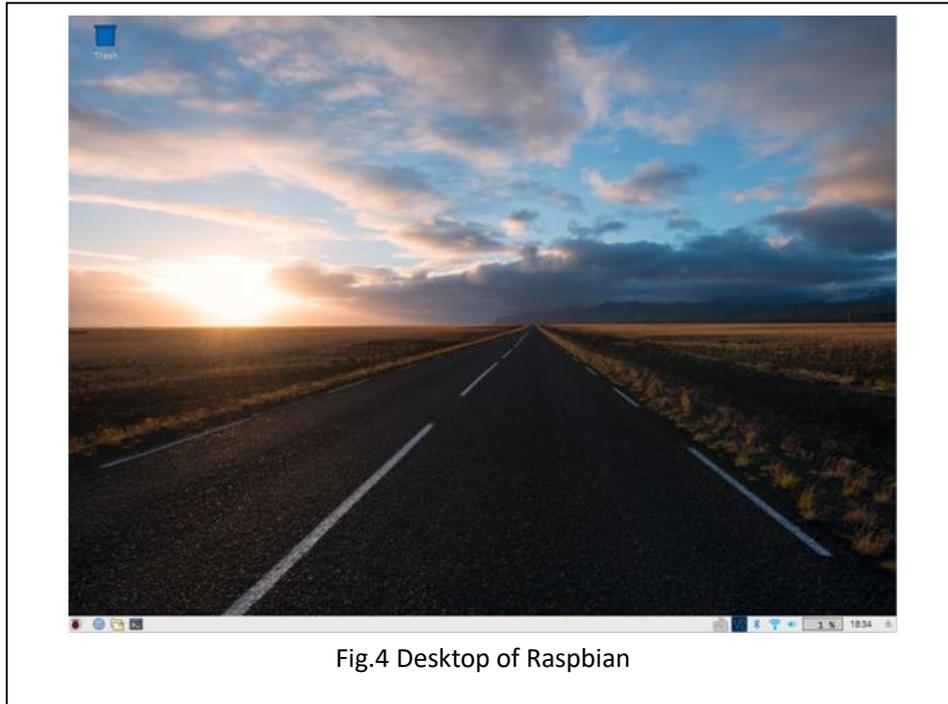


Fig.4 Desktop of Raspbian

Appendix

Useful commands for using Linux:

Command Number	Command	Functionality
1	ls	list
2	pwd	Print working directory
3	cd	Change directory
4	mkdir	Make directory
5	cat	Concatenate
6	rm	Remove
7	rmdir	Remove directory
8	mv	move
9	cp	copy
10	date	Read system date/time
11	grep	Global search regular expression and print
12	man	manual
13	sudo	Super user do
14	chmod	Change mode
15	./program	Run program
16	apt-get	Update package/dependences
17	exit	Exit console
18	reboot	Restart OS
19	shutdown	Power-off system