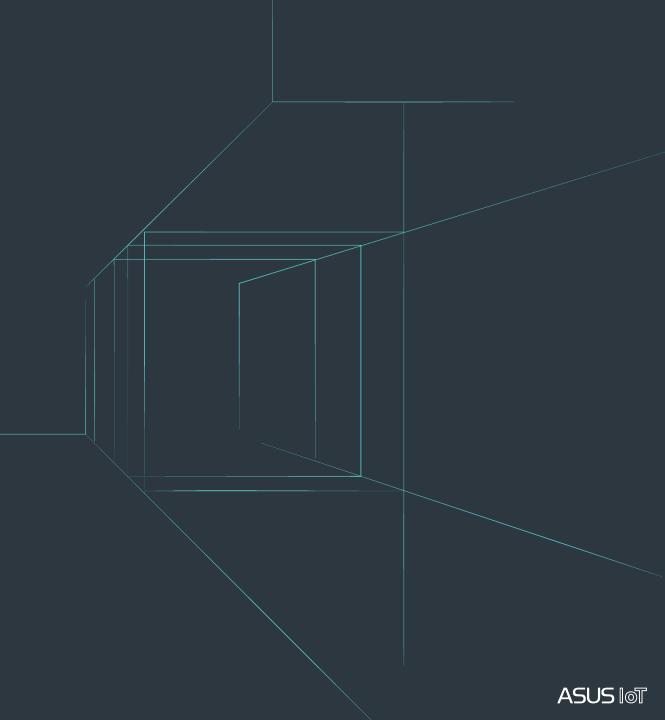
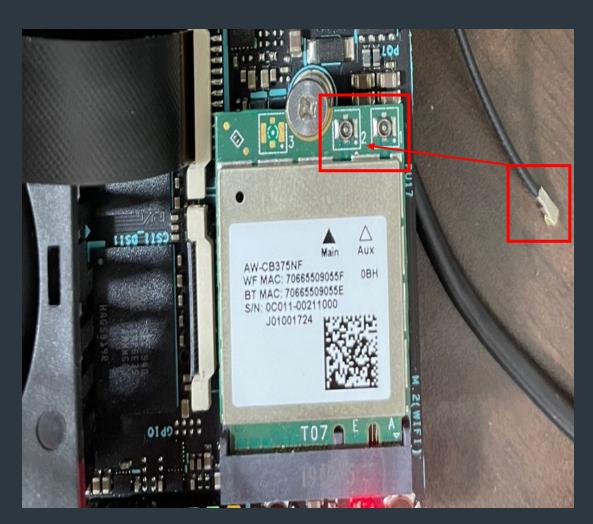


Contents

- Wifi
- Bluetooth
- Git
- GPIO Build



Debian Tinker 기본 설정(Wi-Fi)



1. Tinker Board 에서 Wi-Fi 모듈과 안테나 연결 (main만 연결해도 지장 없음)

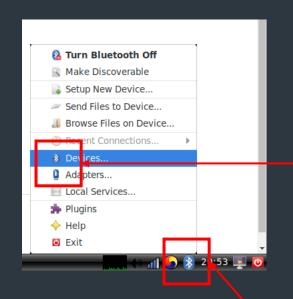
Debian Tinker 기본 설정(Wi-Fi)



3. 자신이 원하는 Wi-Fi 선택 및 암호 입력 후 연결 상태 확인

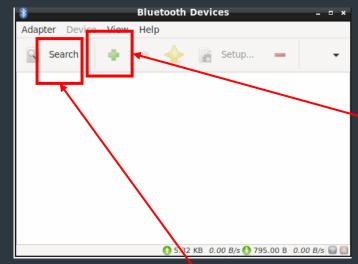
2. Wi-Fi 아이콘 더블 클릭 (이더넷 연결 시 별도의 설정 필요 없음)

Debian Tinker 기본 설정(bluetooth)



2. Device 아이콘 더블 클릭

1. bluetooth 아이콘 더블 클릭



4. +아이콘 클릭 후 자 신의 기기와 pairing

3. Search 아이콘 더블 클릭 후 자신이 찾는 디바이스 찾기

Debian Tinker 기본 설정(Git)

- GPIO를 사용 하고 GIT에서 Clone을 가져오기 위해 Git 설치
- 1. 하단 Bar에서 System Tools LXTerminal 클릭
- 2. Sudo apt-get install git 입력 후 엔터

```
ıınaro@ıınaro-aııp: ~
File Edit Tabs Help
Setting pipeline to PAUSED ...
Setting pipeline to READY ...
Setting pipeline to NULL ...
Freeing pipeline ...
linaro@linaro-alip:~$
linaro@linaro-alip:~$ gst-launch-1.0 v4l2src! videoconvert ! video/x-raw,width=5
00,height=400 ! videoconvert ! autovideosink
Setting pipeline to PAUSED ...
Pipeline is live and does not need PREROLL ...
Setting pipeline to PLAYING ...
New clock: GstSystemClock
ERROR: from element /GstPipeline:pipeline0/GstV4l2Src:v4l2src0: Internal data st
Additional debug info:
gstbasesrc.c(3055): gst base src loop (): /GstPipeline:pipeline0/GstV4l2Src:v4l2
src0:
streaming stopped, reason not-negotiated (-4)
Execution ended after 0:00:00.085573025
Setting pipeline to PAUSED ...
Setting pipeline to READY ...
Setting pipeline to NULL ...
Freeing pipeline ...
linaro@linaro-alip:~$ sudo apt-get install git
```

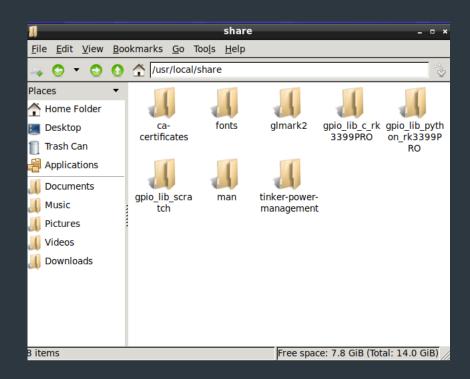
Debian Tinker 기본 설정(Git Clone)

- 1. Sudo apt-get install git 로 Git 설치 후 진행 가능
- 2. git clone <u>https://github.com/TinkerBoard/gpio_lib_python.git</u> 입력 후 엔터

```
linaro@linaro-alip: ~
00,height=400 ! videoconvert ! autovideosink
Setting pipeline to PAUSED ...
Pipeline is live and does not need PREROLL ...
Setting pipeline to PLAYING ...
New clock: GstSystemClock
ERROR: from element /GstPipeline:pipeline0/GstV4l2Src:v4l2src0: Internal data st
ream error.
Additional debug info:
qstbasesrc.c(3055): qst base src loop (): /GstPipeline:pipeline0/GstV4l2Src:v4l2
streaming stopped, reason not-negotiated (-4)
Execution ended after 0:00:00.085573025
Setting pipeline to PAUSED ...
Setting pipeline to READY ...
Setting pipeline to NULL ...
Freeing pipeline ...
linaro@linaro-alip:~$ sudo apt-get install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version (1:2.20.1-2+deb10u3).
O upgraded, O newly installed, O to remove and O not upgraded.
linaro@linaro-alip:~$ git clone https://github.com/TinkerBoard/gpio lib c.git
```

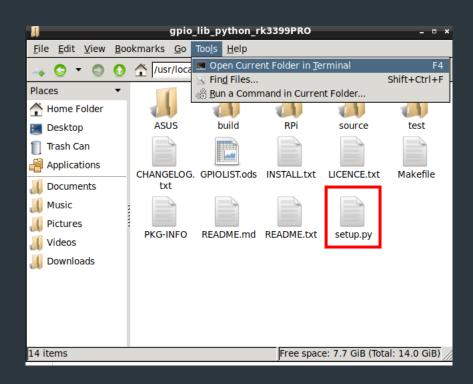
Debian Tinker 기본 설정(Git Clone)

3. 정상적으로 설치가 완료되면 /usr/local/share 경로에 아래 이미지와 같은 하위 폴더가 생성됨



Debian Tinker 기본 설정(Git Clone python build)

- 1. 경로 지정의 편의를 위해 /usr/local/share/gpio_lib_python_rk3399pro 폴더 진입
- 2. Setup.py 파일 확인
- 3. Tools-Open Current Folder in Terminal 클릭



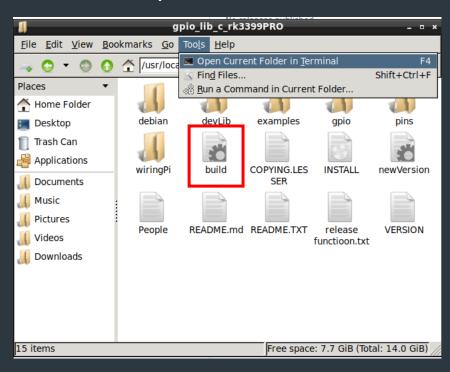
Debian Tinker 기본 설정(Git Clone python build)

- 1. Terminal이 gpio_lib_python_rk3399pro로 디렉토리가 설정 되었는지 확인
- 2. sudo python3 setup.py install 입력

```
linaro@linaro-alip:/usr...lib python rk3399PRO - - >
   or: setup.py --help [cmd1 cmd2 ...]
   or: setup.py --help-commands
   or: setup.py cmd --help
error: no commands supplied
linaro@linaro-alip:/usr/local/share/gpio_lib_python_rk3399PRO$ sudo python3 set
P.Py install
running install
running build
running build_py
running build_ext
running install_lib
running install_egg_info
Removing /usr/local/lib/python3.7/dist-packages/ASUS.GPIO-0.1.egg-info
Writing /usr/local/lib/python3.7/dist-packages/ASUS.GPIO-0.1.egg-info
running install
running build
running build_py
running build_ext
running install_lib
running install_egg_info
Removing /usr/local/lib/python3.7/dist-packages/RPi,GPIO-0.1.egg-info
Writing /usr/local/lib/python3.7/dist-packages/RPi.GPIO-0.1.egg-info
linaro@linaro-alip:/usr/local/share/gpio_lib_python_rk3399PRO$
```

Debian Tinker 기본 설정(Git Clone C build)

- 1. 경로 지정의 편의를 위해 /usr/local/share/gpio_lib_c_rk3399pro 폴더 진입
- 2. build 파일 확인
- 3. Tools-Open Current Folder in Terminal 클릭



Debian Tinker 기본 설정(Git Clone C build)

- 1. Terminal이 gpio_lib_c_rk3399pro로 디렉토리가 설정 되었는지 확인
- 2. sudo ./build 입력

```
| Iinaro@linaro-alip:/usr.../gpio_lib_c_rk3399PRO = 0 x |
| Idconfig: file /usr/lib/mali/libmali-midgard-t86x-r18p0-x11.so is truncated |
| Idconfig: file /usr/lib/mali/libmali.so.1 is truncated |
| Idconfig: file /usr/lib/mali/libmali.so.1.9.0 is truncated |
| Idconfig: file /usr/lib/libmali.so.1 is truncated |
| Idconfig: file /usr/lib/mali/libmali.so.1 is trun
```