Step by Step guide to setup IR receiver

Make sure you have installed OS for PiPocket, If not follow guide here =>

Instruction below is setup for 64bit bookworm OS and model CM4, make necessary changes if using with other configuration

Step 1: First update and install LIRC package

Run command to update and upgrade, after that install lirc package

sudo apt-get update -y && sudo apt-get upgrade -y sudo apt-get install lirc -y

```
pi@raspberrypi:~ $ sudo apt-get update -y && sudo apt-get upgrade -y
Hit:1 http://deb.debian.org/debian bookworm InRelease
Hit:2 http://deb.debian.org/debian-security bookworm-security InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Hit:4 http://archive.raspberrypi.com/debian bookworm InRelease
Reading package lists... 0%
```

```
pi@raspberrypi:~ $ sudo apt-get install lirc -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    gir1.2-vte-2.91 liblirc0 libportaudio2 libusb-0.1-4 python3-yaml
```

You can confirm with below version check command.

\$ lircd --version

```
pi@raspberrypi:~ $ lircd --version
lircd 0.10.1
pi@raspberrypi:~ $ []
```

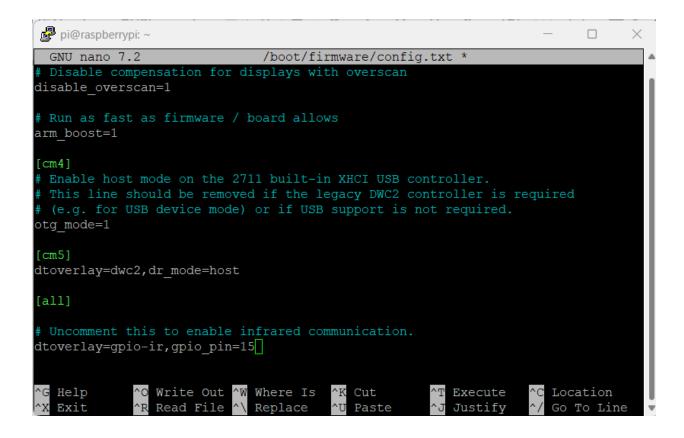
Step 2: Configure and Setup LIRC for IR Remote control

First we need to enable infrared communication, for this open config.txt file

\$ sudo nano /boot/firmware/config.txt

```
pi@raspberrypi:~ $ sudo nano /boot/firmware/config.txt [
```

and add below lines and save exit =>
Uncomment this to enable infrared communication.
dtoverlay=gpio-ir,gpio_pin=15

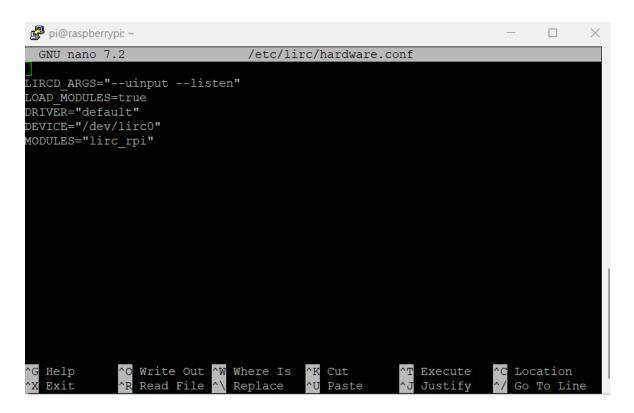


\$ sudo nano /etc/lirc/hardware.conf

```
pi@raspberrypi:~

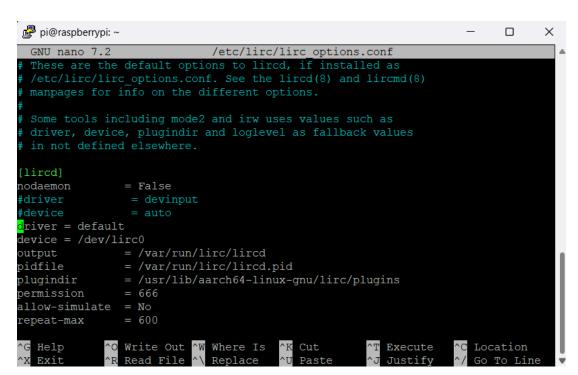
pi@raspberrypi:~ $ sudo nano /etc/lirc/hardware.conf
```

Enter below text, then save and exit, LIRCD_ARGS="--uinput --listen" LOAD_MODULES=true DRIVER="default" DEVICE="/dev/lirc0" MODULES="lirc_rpi"



Now update LIRC module options configure, \$ sudo nano /etc/lirc/lirc_options.conf

```
pi@raspberrypi: ~ $ sudo nano /etc/lirc/lirc_options.conf 
Change both driver and device values (line #3-4).
#driver = devinput
#device = auto
driver = default
device = /dev/lirc0
```



Once you've finished then save and exit, reboot Raspberry Pi to recognize the new bootloader.

\$ sudo reboot

Check status with below running command,

\$ sudo /etc/init.d/lircd status

Step: Testing IR Remote commands

To test IR detection enter below command, hit enter and start pressing any button on IR remote

\$ sudo mode2 -m -d /dev/lirc0