

# Astroberry & ASIAIR Pro

## Enabling the 5v Power Ports

This is a walkthrough on setting up the power ports on your ASIAIR Pro. Written for Windows but can be applied to Linux or OS X.

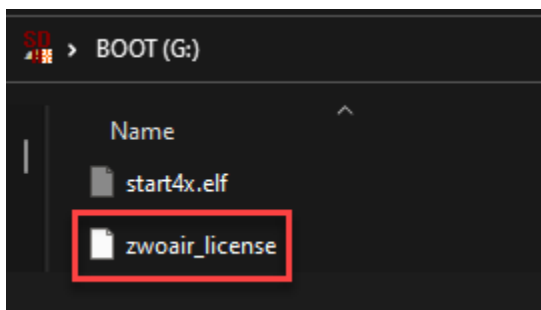
**\*PLEASE READ THROUGH ALL INSTRUCTIONS BEFORE STARTING**

## What you need to get started

1. You will need a ZWO ASIAIR Pro and an extra 32GB Micro SD Card and SD Card Reader.

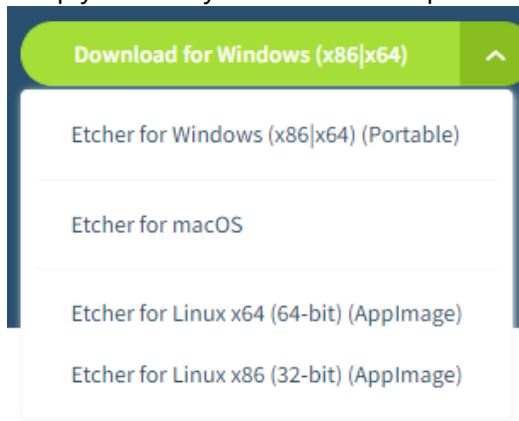


**\*NOTE:** If you are opting to use the Micro SD Card that came with your ASIAIR Pro make sure to back up your license file from the SD Card. Simply plug in your SD Card to a computer and copy out the **zwoair\_license** located in the Boot Partition and save the file.



**FYI:** To restore your ASIAIR Pro follow these [instructions](#)

2. If you have not already, download the Astroberry Stable Image <https://www.astroberry.io/#download>
3. Finally, you will need to download balenaEtcher <https://www.balena.io/etcher/>  
Simply choose your version of Operating system and download it and install it

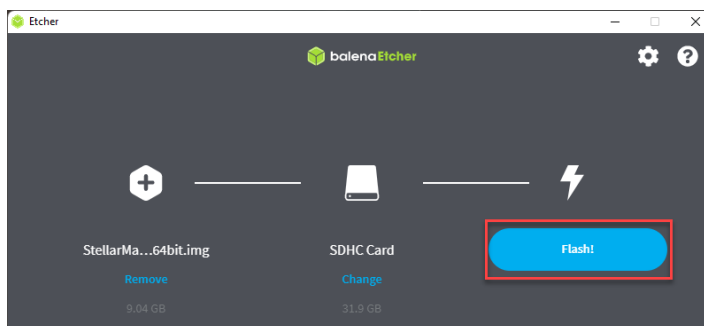


## Installing Astroberry

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This section will walk you through installation of Astroberry

1. Extract the Astroberry zip file
2. Insert your Micro SD card into your card reader and insert into your computer
3. Open balenaEtcher and click on **Flash from file** and choose the Astroberry image file you extracted
4. Click **Select target** and choose your Micro SD card and then click **Flash**



# Enable ASIAIR Pro Power ports

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This section will walk you through enabling the Power ports on the ASIAIR Pro

1. Once you are connected to the Astroberry you will want to make sure it's connected to the internet and run the update through terminal

```
sudo apt update && sudo apt upgrade && sudo apt dist-upgrade
```

2. Once the upgrade is completed reboot the Astroberry and then run the following command

```
sudo apt install indi-asi-power
```

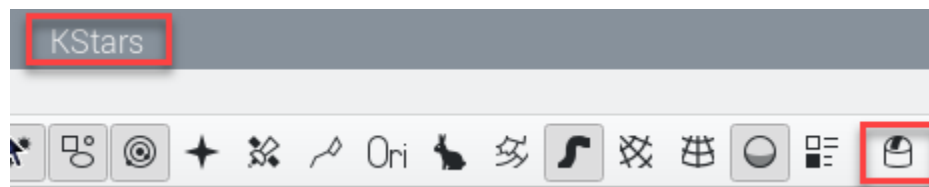
3. Next we need to install the pigpio library <http://abyz.me.uk/rpi/pigpio/download.html>

```
wget https://github.com/joan2937/pigpio/archive/master.zip
unzip master.zip
cd pigpio-master
make
sudo make install
```

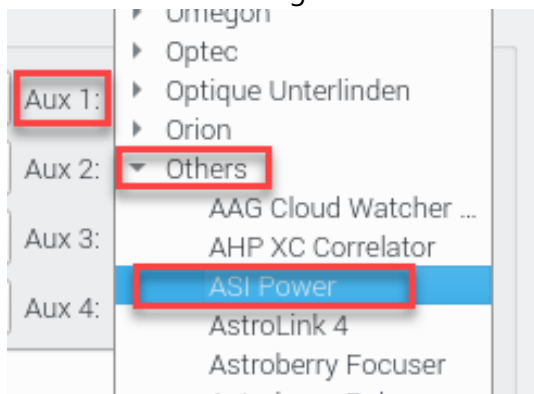
4. Next we need to configure the pigpio library to start on bootup

```
sudo systemctl enable pigpiod
sudo systemctl start pigpiod
```

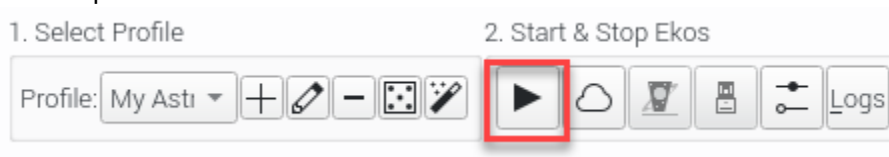
5. Then reboot a second time. Once the system is back online we can configure KStars. Open KStars and configure your drivers through Ekos



6. You will then want to go to Aux < Others < ASI POWER



7. At this point click save and then start the drivers



8. If all works correctly, we should be able to simply turn on the power port and get power working for our different devices.

