Cherry blossom,

**GETTING STARTED GUIDE FOR FIRST RUN**

**Rev2**

**20201108**

**Pre requests**

**Mini usb b cable**

**External 5V 2A (specifically needed when using HAT boards)**

**Etherrnet cable , for Ethernet Hat**

FTDI driver install

Ftdi FT232R TTL Cable

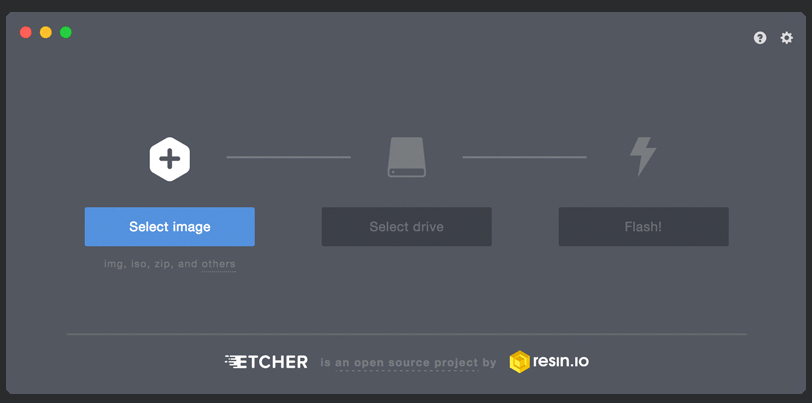
<https://etcher.io/>

Download images at

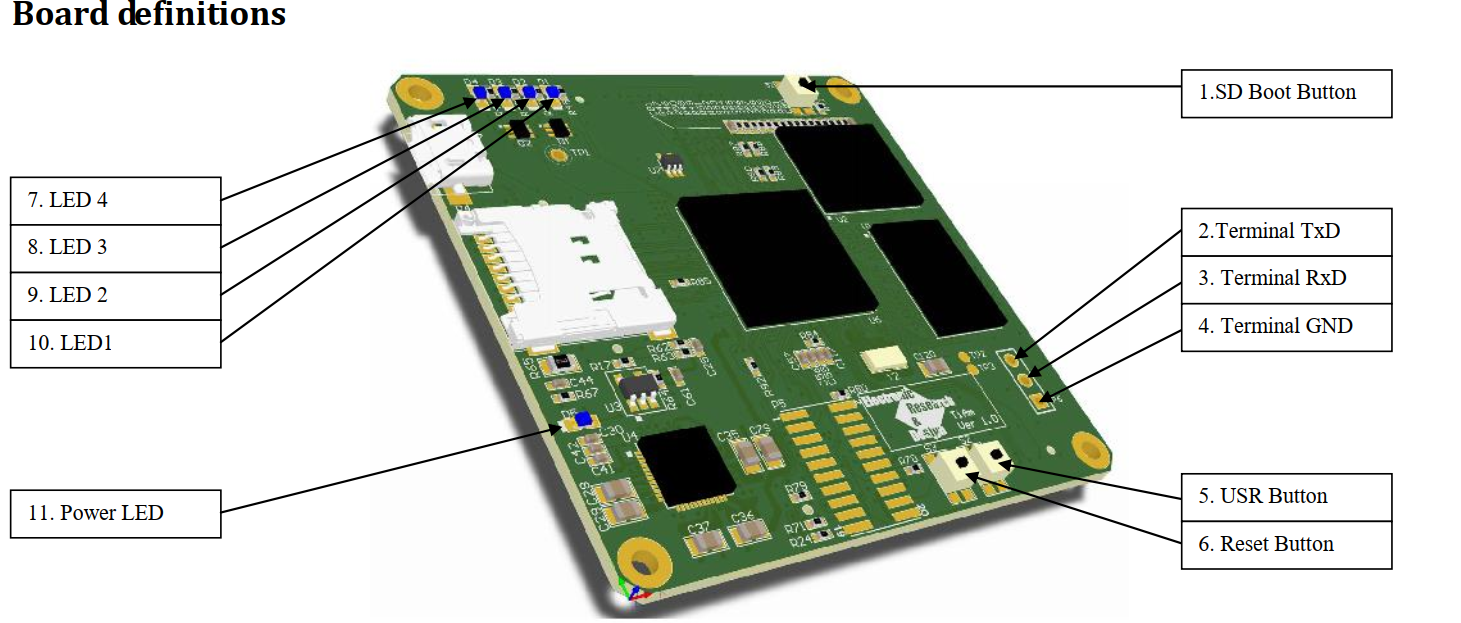
https://github.com/ccoetzee2380/Cherryblossom.git

Loading Image to card,

Loading the images on SD car you will need to use Etcher program, ensure the SD card is the only external storage on the system before continuing. Follow steps as per etcher program , recommendation is to use the IOT image for requirements that want to use the on board EMMC . If the requirement is more resource intense , it is recommended to use a class10 16GB SD card high temp grade for longer operation and life conditions. Industrial SD card



Starting Up the board



Before connecting USB cable , press the reset and SD boot button together.

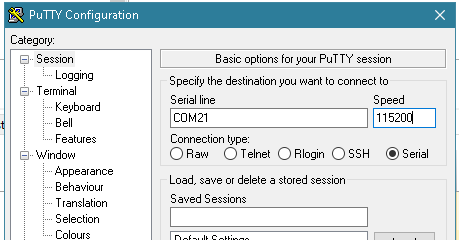
While the buttons are pressed, insert USB cable

Once cable is inserted release buttons, it will take a while but it will enumerate a USB Ethernet connection under windows. “RNDIS” description

It is best to use the command line environment to determine the network interface over USB,

It will give you your IP address and the IPAddress of a gateway, Use Putty or similar program to access the unit by using the gateway ip address

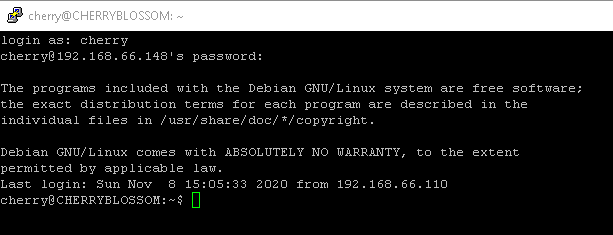
The unit also enumerates a USB to serial interface , Putty can also be used to access the unit through serial



When connection is established, use the following username and password

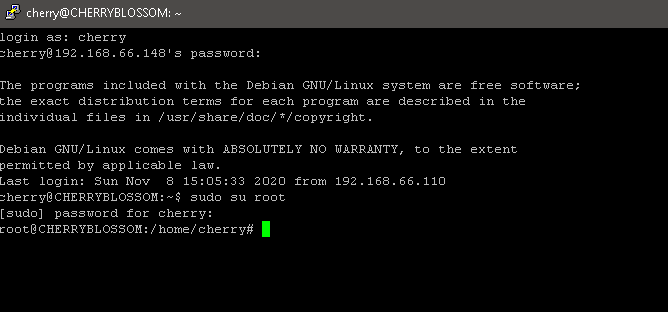
username: cherry

password: blossom



After password success you need to do the next steps in root access

Type **su root** and then for the password type **blossom** again.



NOTE , not compulsory but recommended for IOT image

It is recommended to load a develop all applications first before you do the next steps , this way the image will be loaded with all you programs loaded on the internal memory

Navigate to the directory as below image shows



Once in the directory edit the following file



Unmask the very last line in the file , this will cause the unit to load the image on the SD card to internal memory



Save the change and exit

Now type reboot



Once reboot is done , leave the SD card inserted and remove the power

Give it about 5 seconds,

Hold Reset button and insert the USB cable. Once USB cable is inserted ,release reset and SD boot button. The board will start up and the LED will go a bit crazy / running LED for a while the image is transferred to the EMMC internal memory.

Once all this is done ALL LEDS may be on or off, restart the device and REMOVE the SD card.

If all LEDS flash there was a error in transfer of image to emmc. Possible reason onboard memory is too small for image

Add a new SD card that does not contain an image for extra storage.