

# TROUBLESHOOTING: Reflashing Edison (PC)



This document is intended to help solve **problems with hooking-up** and getting your Handibot/FabMo running.

It is an extreme solution involving totally reflashing the Edison Single Board Computer on your tool.



## Re-Flash the onboard Intel-Edison SBC with full OS and Software Image

- This procedure re-installs all software on FabMo's
   Single Board Computer, including OS and FabMo. It is
   a last-resort option for FabMo units that are locked,
   bricked, or in-accessible. All configuration and history
   data will be lost and settings restored to default values.
   You will need a Windows PC, standard USB A (male) to
   micro-USB B (male) cable. This this is the type cable
   typically used for phone charging.
- You will need to <u>download a very large file (+300M)</u> for the install before you start. Note though, that the reflashing does not require the FabMo unit to have an AP mode or Network mode connection. An internet connection for your device is only needed to download the large installation file.



#### First let's prep the Edison SBC on your Handibot

### Download and follow these instructions to remove (and later re-install) your FabMo Control Card:

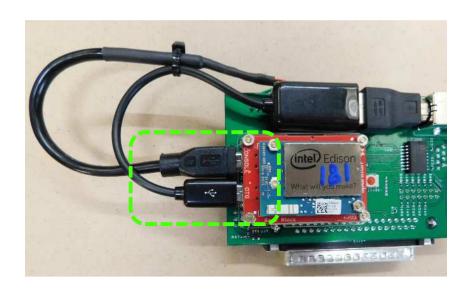
http://docs.handibot.com/doc-output/Handibot2 Replacing FabMo Control Card.pdf

(On the docs. Handibot.com site: "Replacing your Control Card")

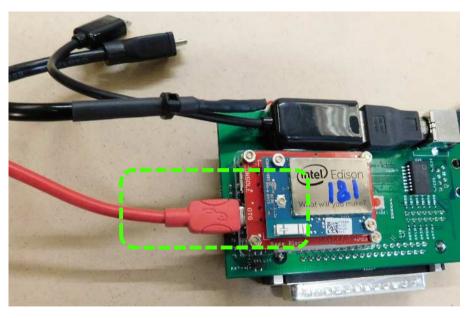




#### Disconnect BOTH USB cables from Edison.



Plug USB micro connector on your cable into Edison at "OTG" location. <u>Do not</u> plug the other end in yet.





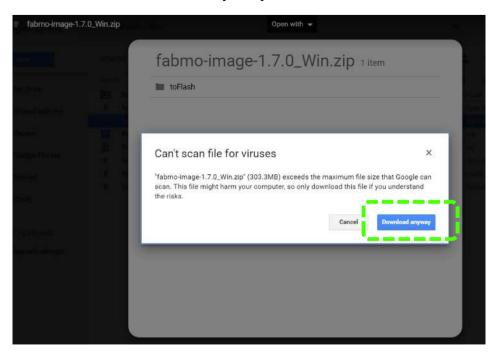
#### From your PC's Browser:

- Go to the link below
- Download the file to a convenient location

https://drive.google.com/open?id=0B5S7sMQs5whAdUtMdE1SbW01WFE

7

Click Download Anyway to start the download ...



Extract the compressed files (Unzip)

Open the Folder labeled: fabmo-image-1.7.0

Then open the Folder labeled: toFlash

Double click (in order to run): flash.bat

9 You should see a console screen that looks something like this.

Now, PLUG-IN the other end of the USB cable to a USB 2.0 slot on your computer to start download.



- the blue LED on the Edison should come on
- you should hear a couple beeps
- (there might be a "dfu" error message ... ignore if things seem to continue)
- then the screen will show several download messages before one that says up to "5 minutes"

```
_ 🗆 ×
                          C:\Windows\system32\cmd.exe
[======1 100%
                                                  4194304 butes
 Download
Download done
               [-----1 100%
                                                  4194304 bytes
 lashing U-Boot
Download
Download done.
              [-----] 100%
                                                   237568 butes
 lashing U-Boot Environment
Download [=======] 100%
                                                    65536 bytes
 ownload done
 65536 butes
 Rebooting to apply partiton changes
Ofu device found
 Tashing boot partition (kernel)
Download [:::::::::::::] 100%
Download done.
                                                 14925824 butes
 JownLoad done.
Tlashing rootfs, (it can take up to 5 minutes...
JownLoad [=== ] 12%
                                            . Please be patient)
```

11

Eventually, the primary download will complete.

```
_ 🗆 ×
                        C:\Windows\svstem32\cmd.exe
              [======] 100%
Download
Download done
Flashing U-Boot
Download
             [======] 100%
                                               237568 bytes
Download done.
Flashing U-Boot Environment
             [-----] 100%
                                               65536 bytes
Download
Download done
Flashing U-Boot Environment Backup
             [======1 100%
                                               65536 butes
Download
Download done.
Rebooting to apply partiton changes
Dfu device found
Flashing boot partition (kernel)
             [-----] 100%
                                             14925824 bytes
lownload done
Rebooting
J-boot & Kernel System Flash Success...
Your board needs to reboot to complete the flashing procedure, please do not unp
lug it for 2 minutes
 kit Code = 0
```

After the primary download completes, <u>wait 2 full</u> minutes for all processes to update.

#### The Flash is Complete!

\*Re-install the Control Card and you should be ready to run your Handibot again.



#### Possible Issues:

- download may not work on USB3.0 or USB port designated high power ("+" or lightening symbol) ... try another USB port
- download may require installing the dfuutility for Windows ... get it here:

https://drive.google.com/open?id=0B5S7sMQs5whARXJhZ2VYUEM0RIU

# Give us a call if you have problems with this procedure!

919.680.4800