

INTRODUCTION

Installation

- Firmware
- Setup
- Configuration

This guide shows the software installation process



FIRMWARE INSTALLATION

- Browse my Computer for Driver
- Let Me Pick from List

The screenshot shows the Windows Update Drivers dialog box for the device 'STM32 BOOTLOADER (COM18)'. The dialog is split into two main sections: 'How do you want to search for drivers?' on the left and 'Browse for drivers on your computer' on the right.

How do you want to search for drivers?

- **Search automatically for updated driver software**
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
- **Browse my computer for driver software**
Locate and install driver software manually.

Browse for drivers on your computer

Search for drivers in this location:

Include subfolders

→ **Let me pick from a list of available drivers on my computer**
This list will show available drivers compatible with the device, and all drivers in the same category as the device.

FIRMWARE INSTALLATION

← Update Drivers - STM32 BOOTLOADER (COM18)

Select the device driver you want to install for this hardware.

 Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.

Show compatible hardware

Model

-  STM Device in DFU Mode
-  STM32 BOOTLOADER Version: 1.0.0.0 [17/01/2019]
-  STM32 BOOTLOADER Version: 6.1.7600.16385 [02/06/2012]
-  STM32 Bootloader

 This driver is digitally signed.

[Tell me why driver signing is important](#)

Have Disk...

Next

Cancel

← Update Drivers - STM32 BOOTLOADER

Windows has successfully updated your drivers

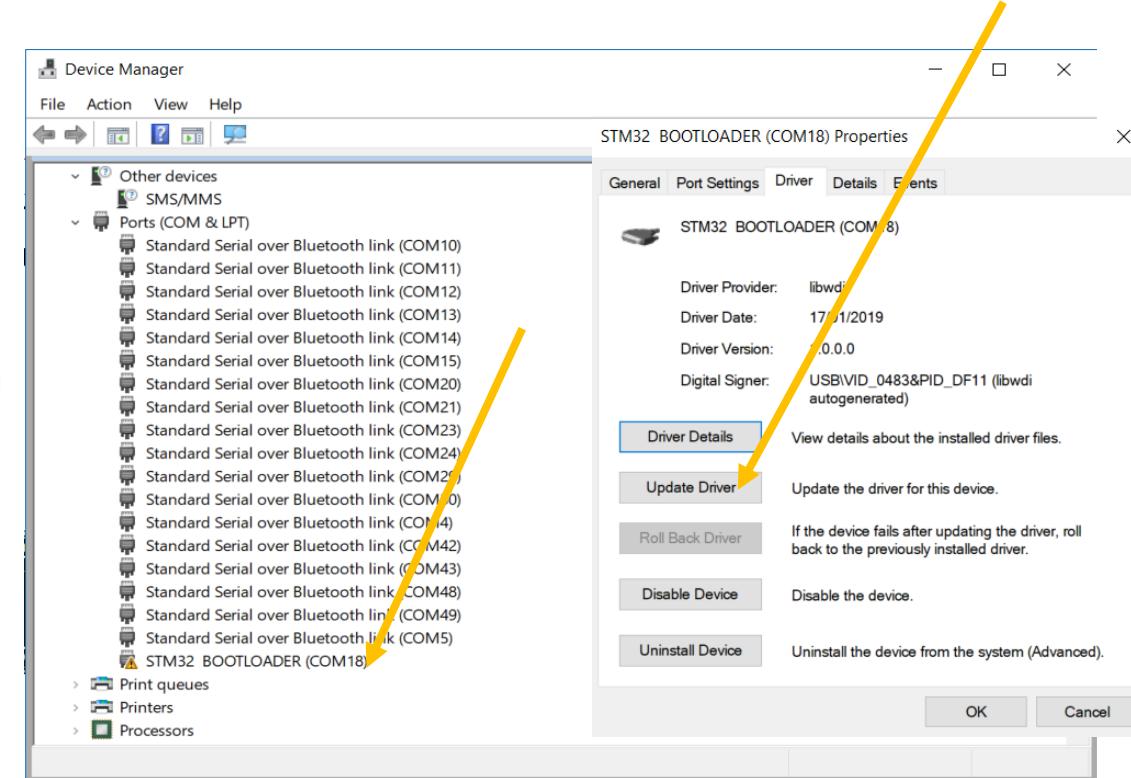
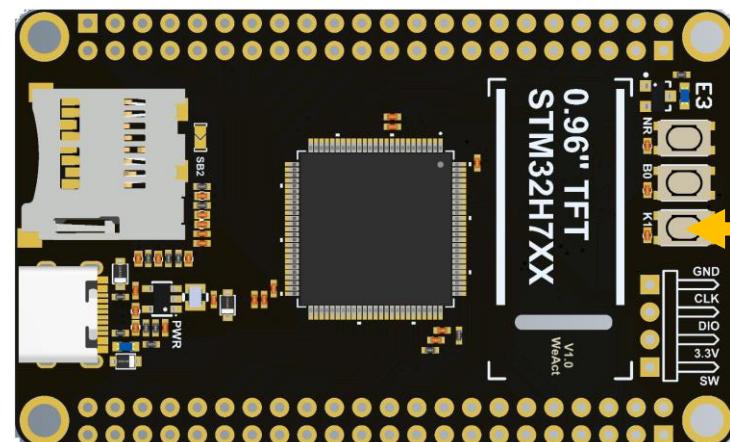
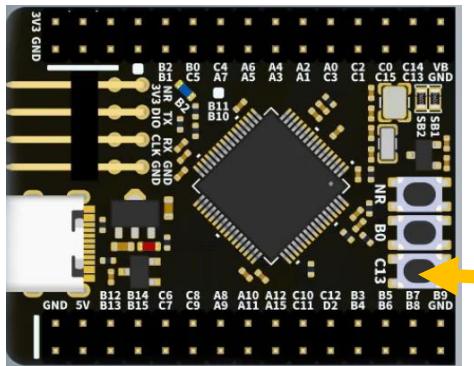
Windows has finished installing the drivers for this device:

 STM32 Bootloader

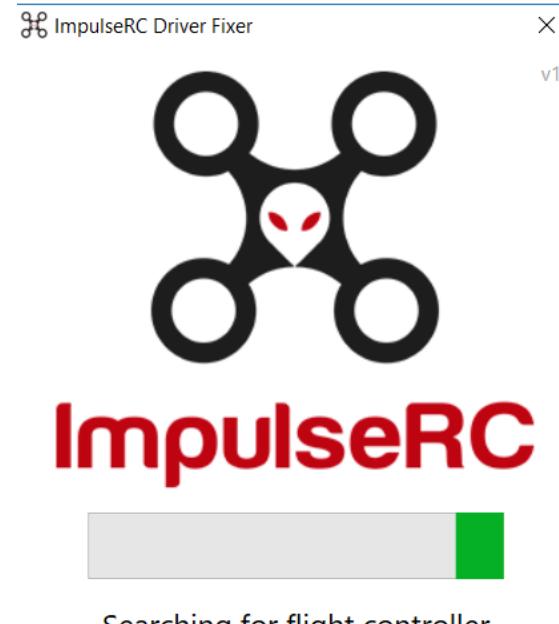
Close

FIRMWARE INSTALLATION

- Plug in USB you see Blue Led fading in and out
- Hold the Key Button for 3seconds till the blue light flashes and goes out
- In device manager the STM32 Bootloader (Com should show up)
- Note : this is for Brand new boards that were not flash with firmware , skip this for Synerduino package kits as they are prefetched for your convenience



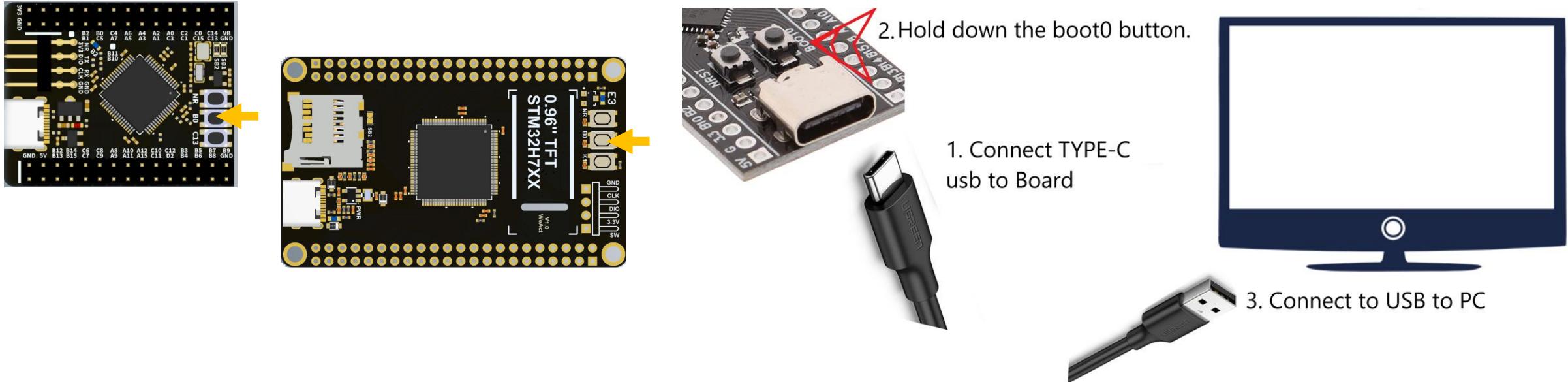
FIRMWARE INSTALLATION



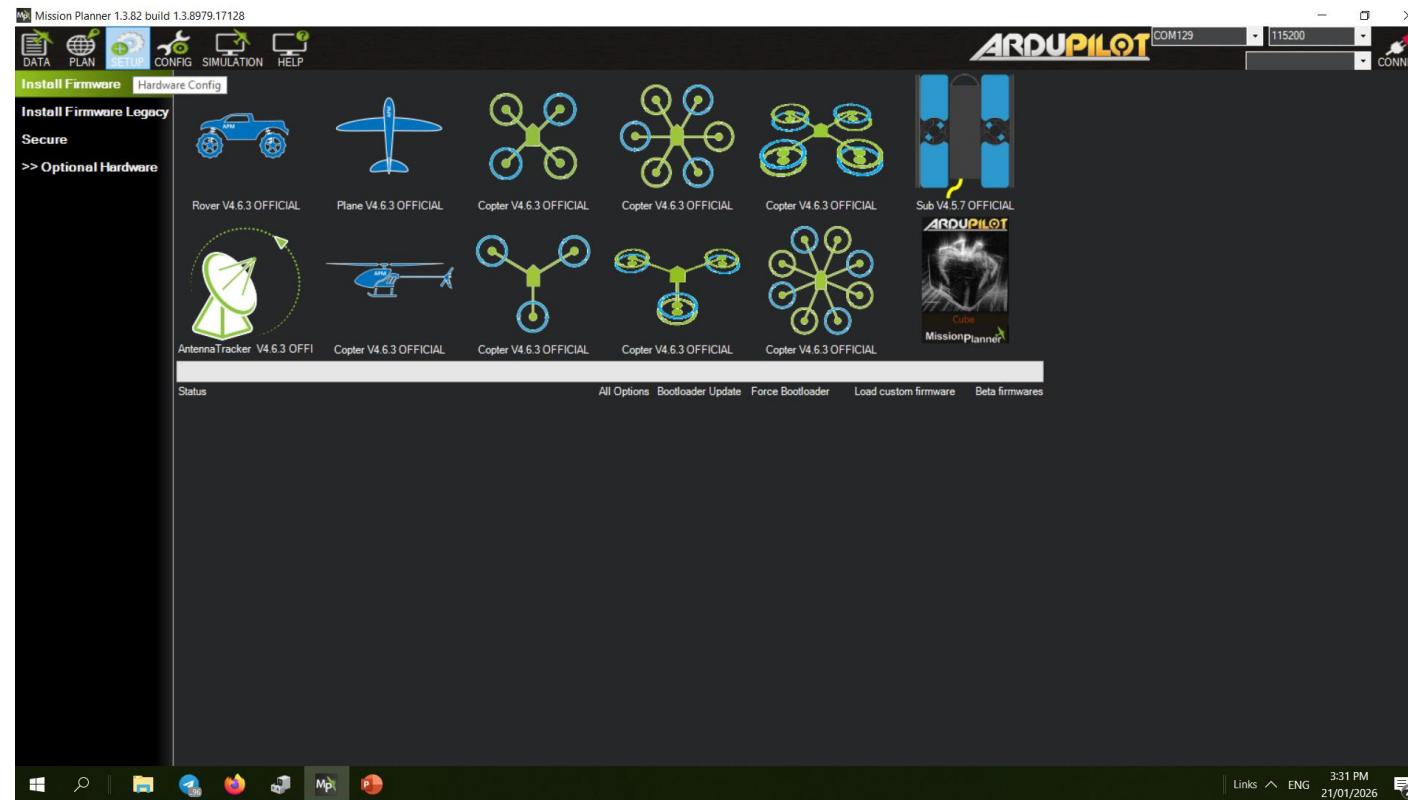
https://impulserc.blob.core.windows.net/utilities/ImpulseRC_Driver_Fixer.exe

- Start ImpulseRC Driver Fixer
- Connect the FC USB to the PC While On DFU mode . (DO NOT power on FC via external 5V or Vbat)
- The ImpulseRC Driver Fixer should then see and load the proper driver

FIRMWARE INSTALLATION

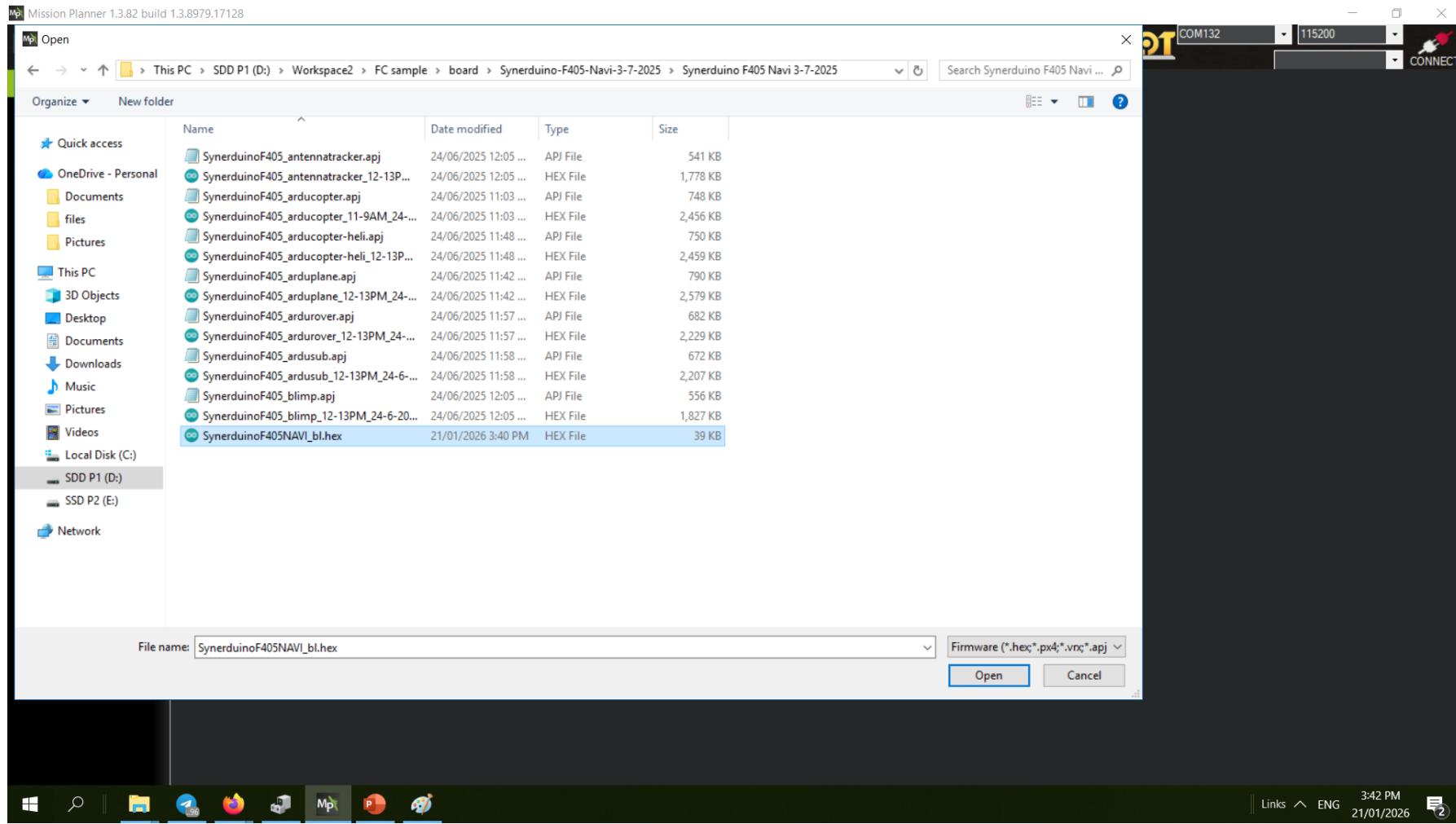


FIRMWARE INSTALLATION



Open Mission planner

1. Setup Tab
2. Install Firmware
3. Load Custom Firmware



Load Custom Firmware

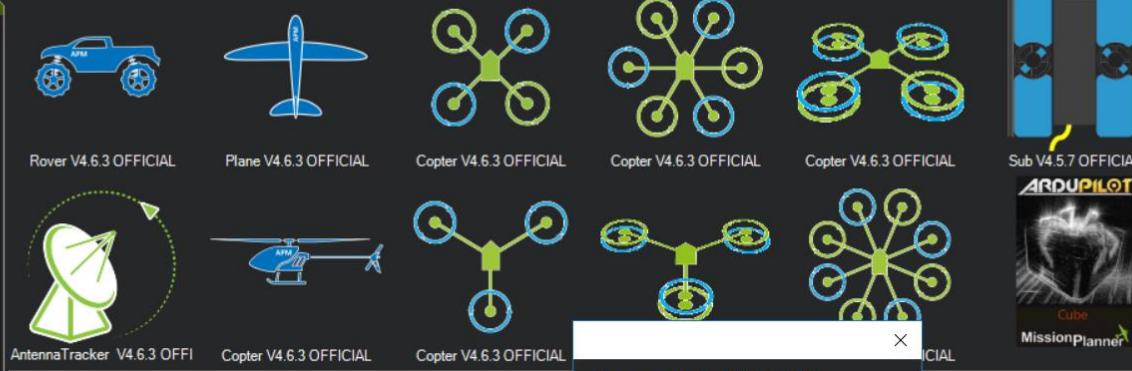
Select bootloader – SynerduinoF405NAVI.hex

Install Firmware

Install Firmware Legacy

Secure

>> Optional Hardware



Do you want to upload this via DFU?

OK

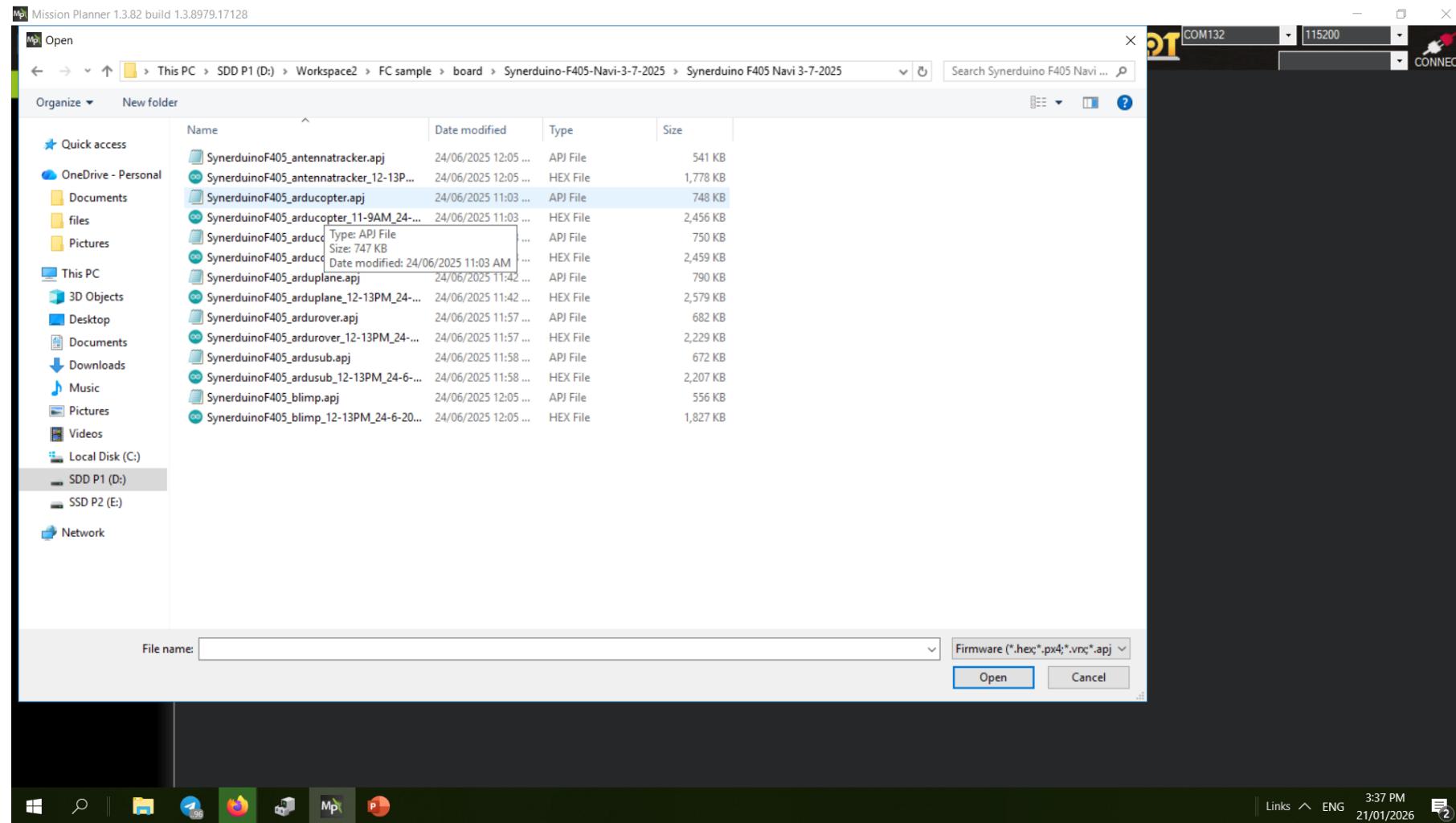
Cancel

Load custom firmware Beta firmwares

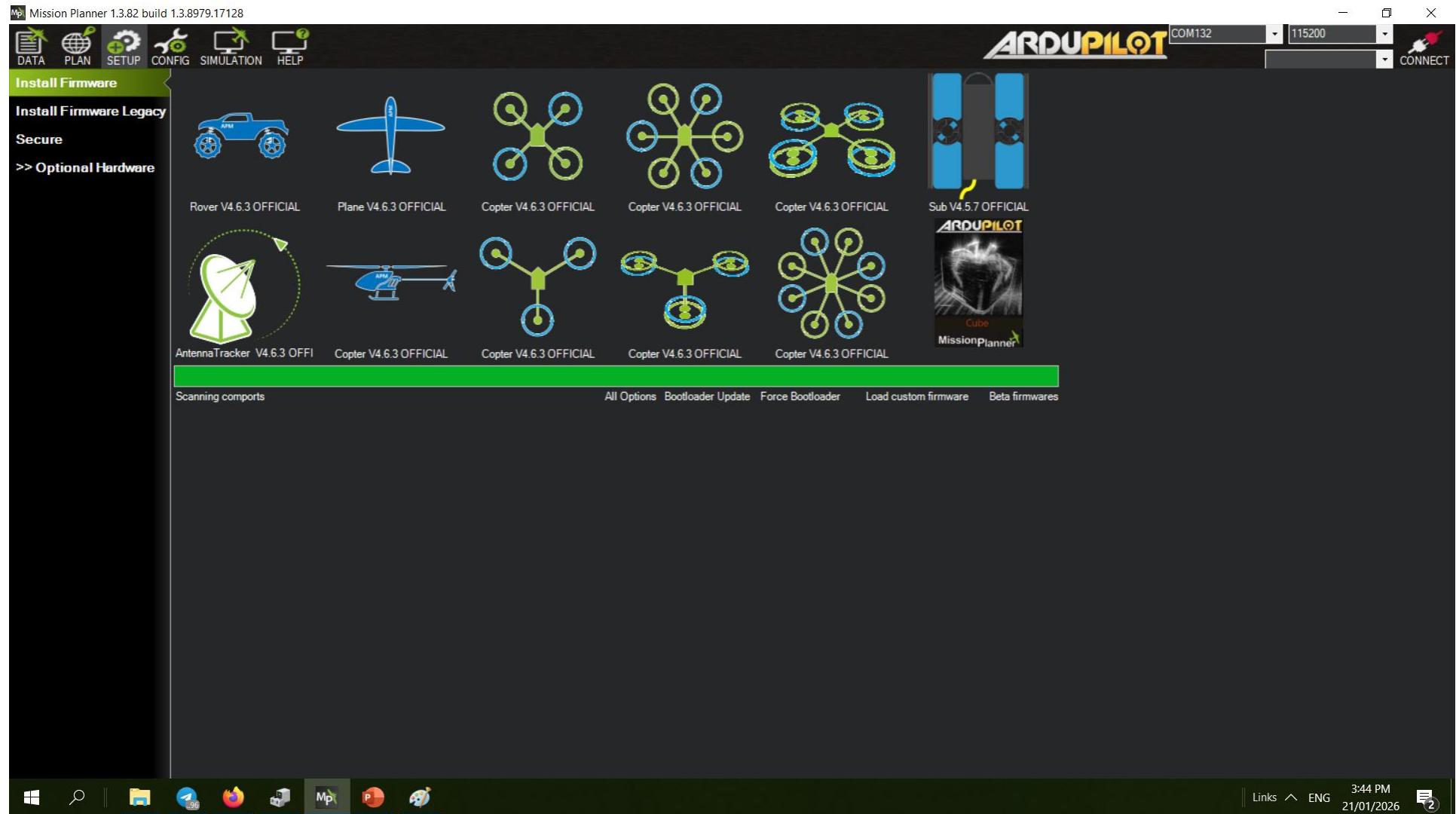
Click OK to Upload Via DFU



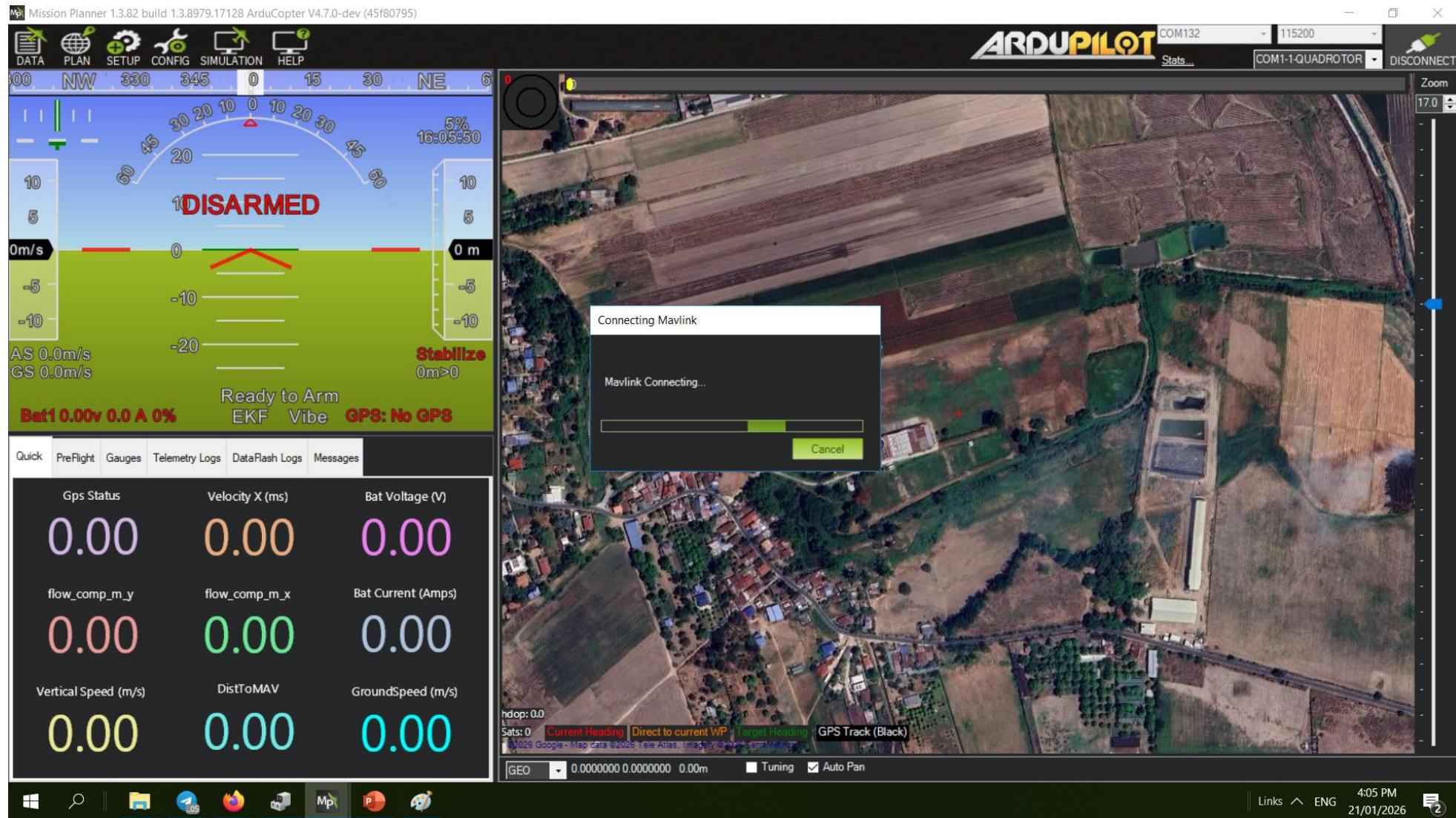
After Flashing DFU bootloader
Disconnect and Reconnect the USB of the Synerduino board



Same process this time the Comport needs to be selected to the Com of your board but not connected to the mission planner
Load Custom Firmware
Then select vehicle file arducopter.apj



From there the process of loading is complete .
Disconnect and reconnect the USB one more time



Connect mission planner to Synerduino board with the Com

Mission Planner 1.3.82 build 1.3.8979.17128 ArduCopter V4.7.0-dev (45f80795)

