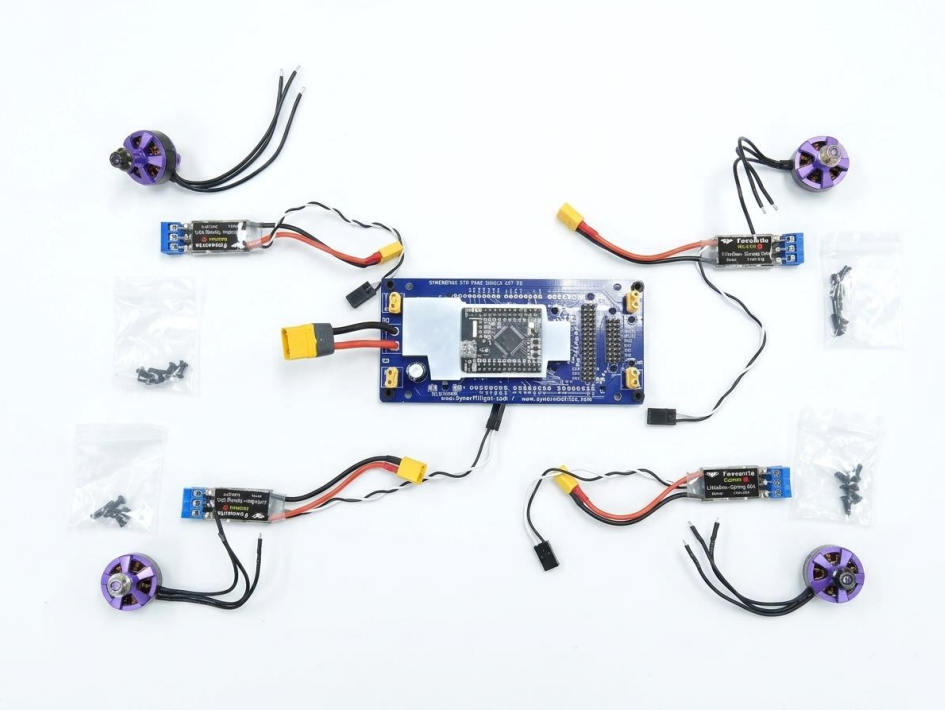
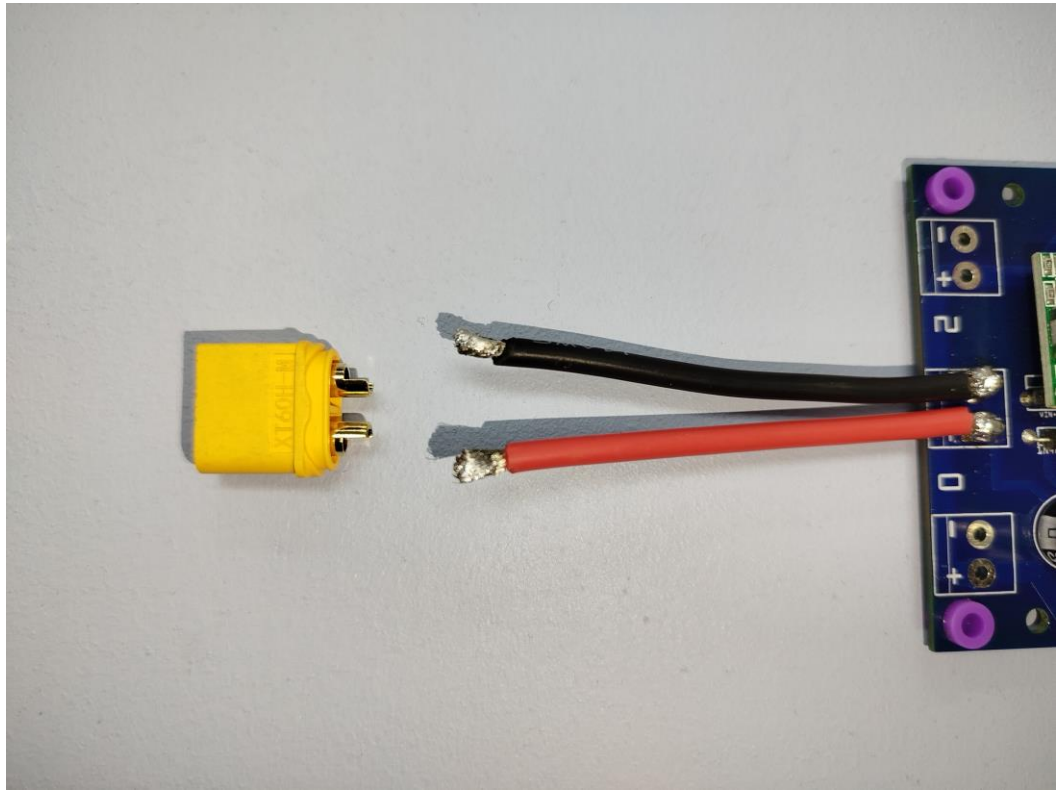
Synerduino Multirotor Kit V3

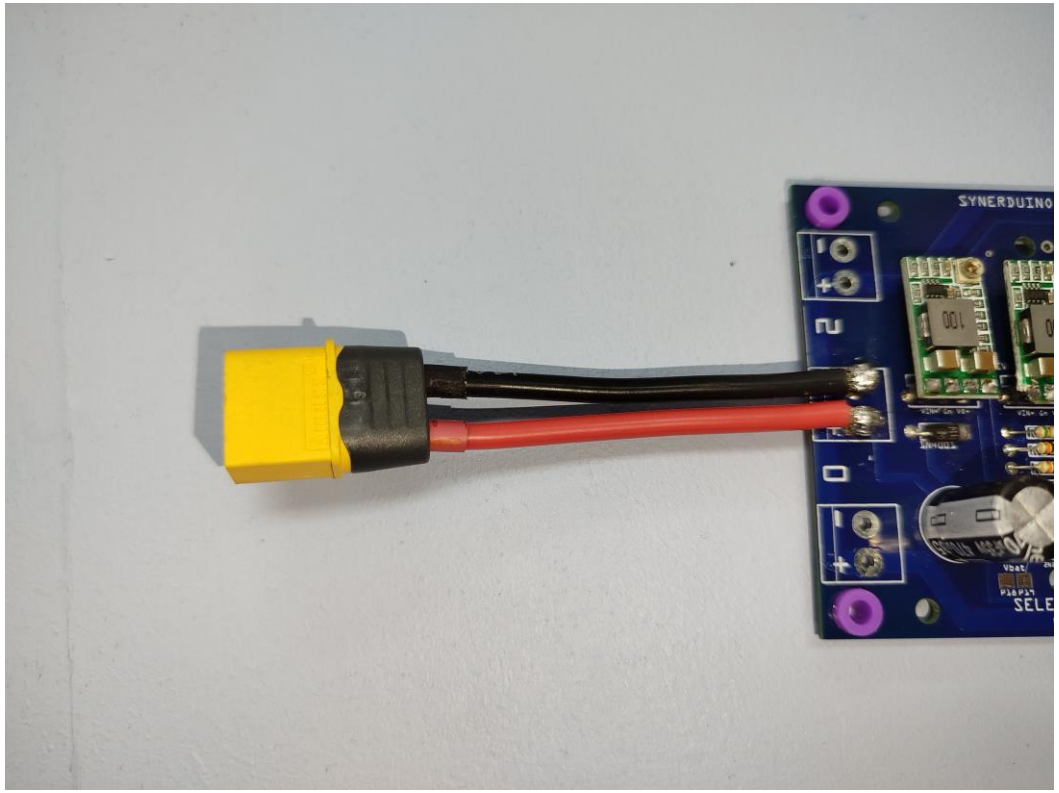
This is compatible to all the Synerduino Lineup of boards using the adapter plate which is compatible to CF frames with mounting holes





POWER

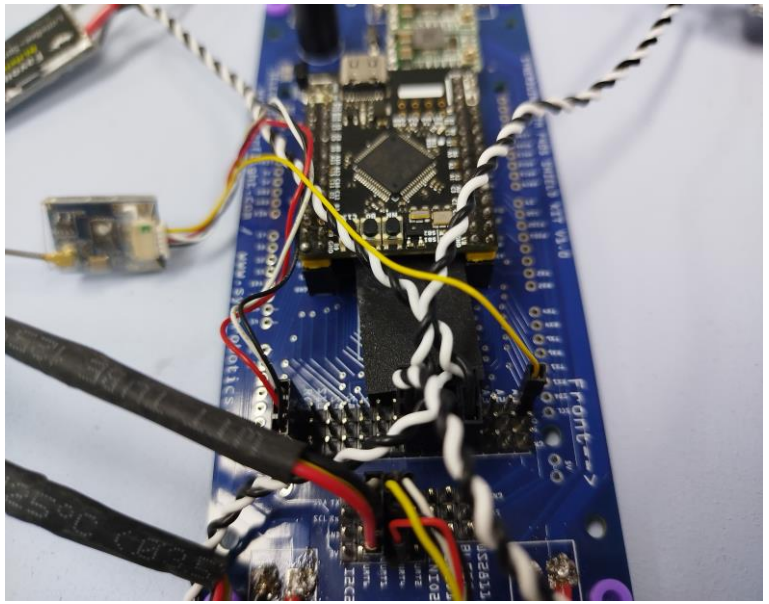


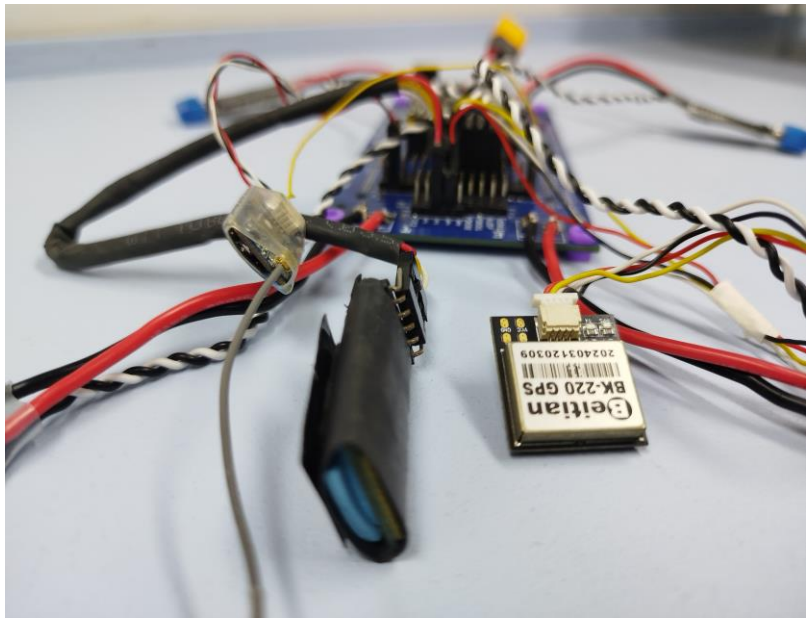


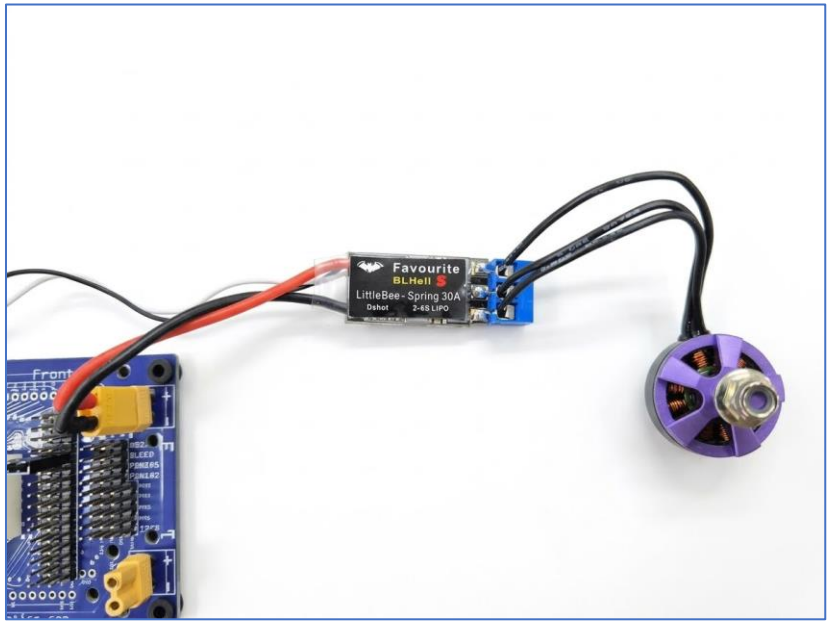
- Flat Side of the connector is + Red
- Rounded Side of the Connector is - Black

COMPONENTS INSTALLATION

- Motor , ESC , GPS , Bluetooth and RC Receiver







- See Main Documentation at https://synerflight.com/synerduino-documentation/synerduino-setup/

F405 RC RECEIVER & UARTS

ELRS 2.4G Receiver



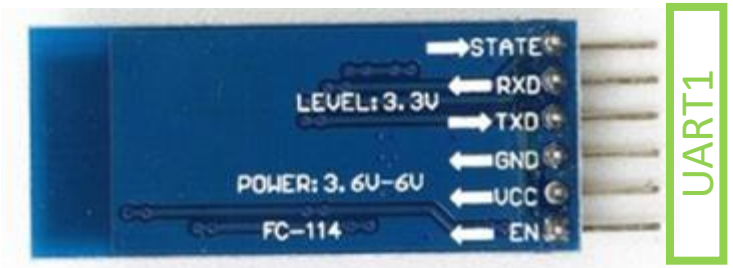
UART2

FS-i6X Receiver



RC1

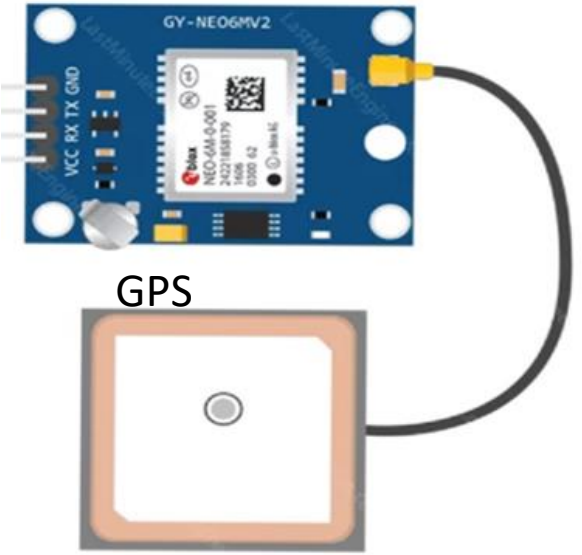
Receiver : Connect to RC1 / UART2



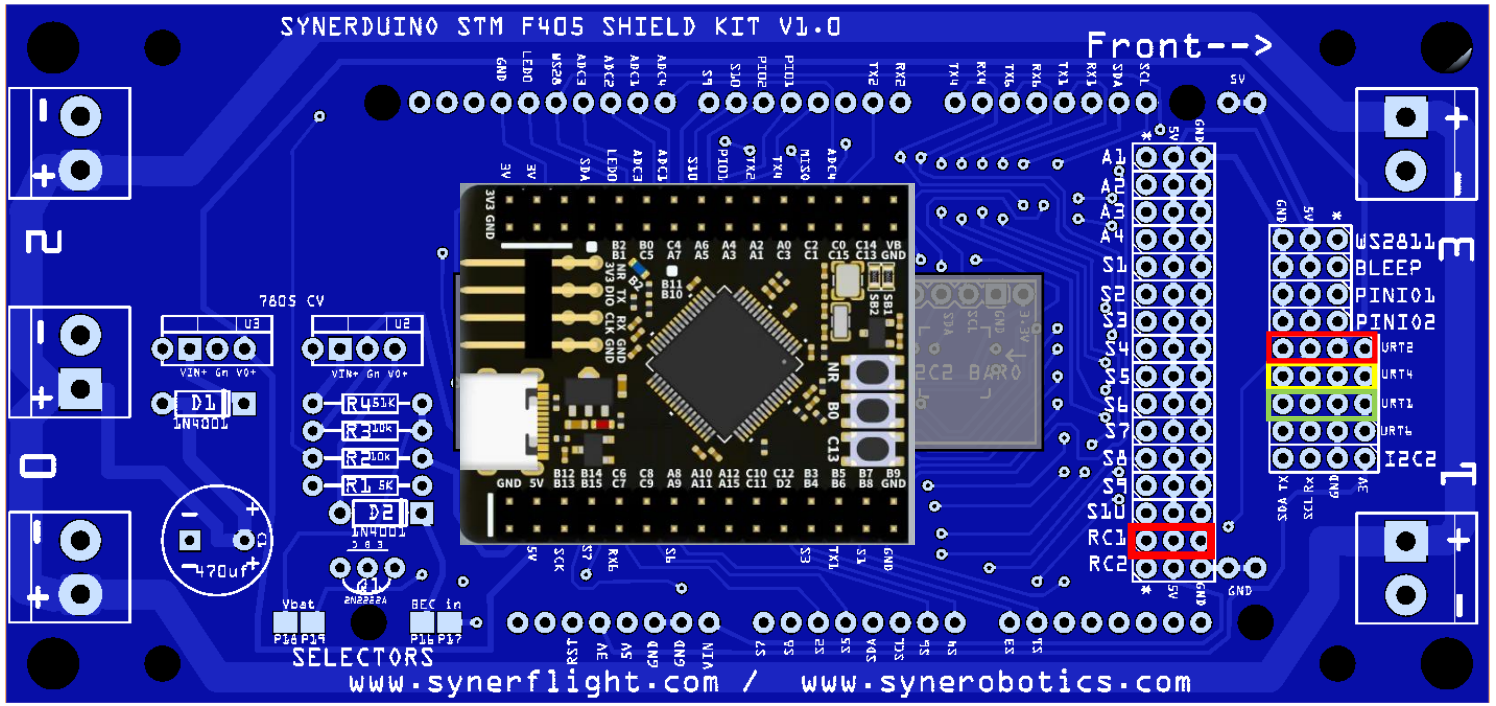
UART1

Bluetooth/Serial Radio

UART4

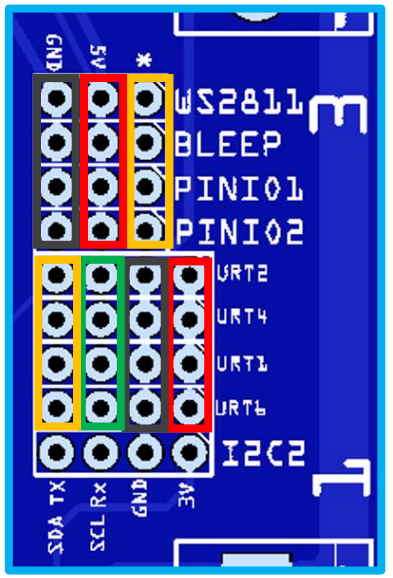


GPS



STMF405

Gn V+ Dat



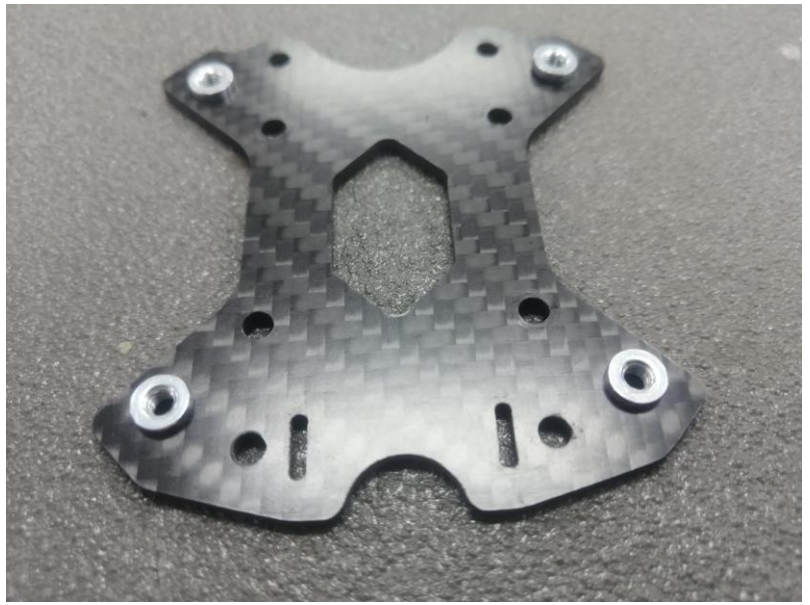
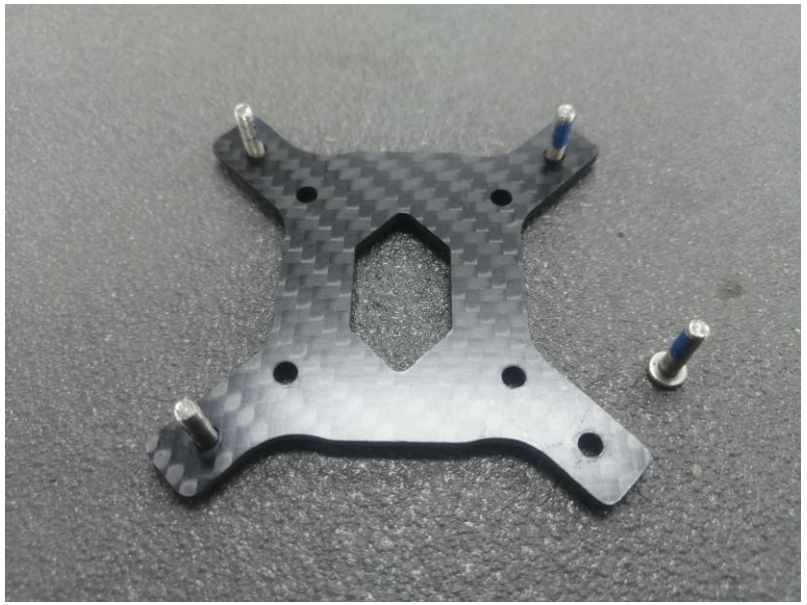
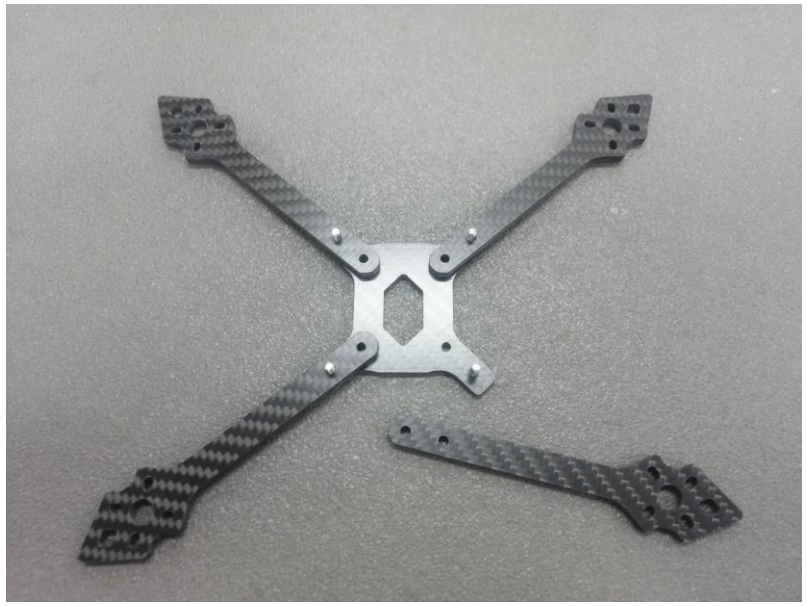
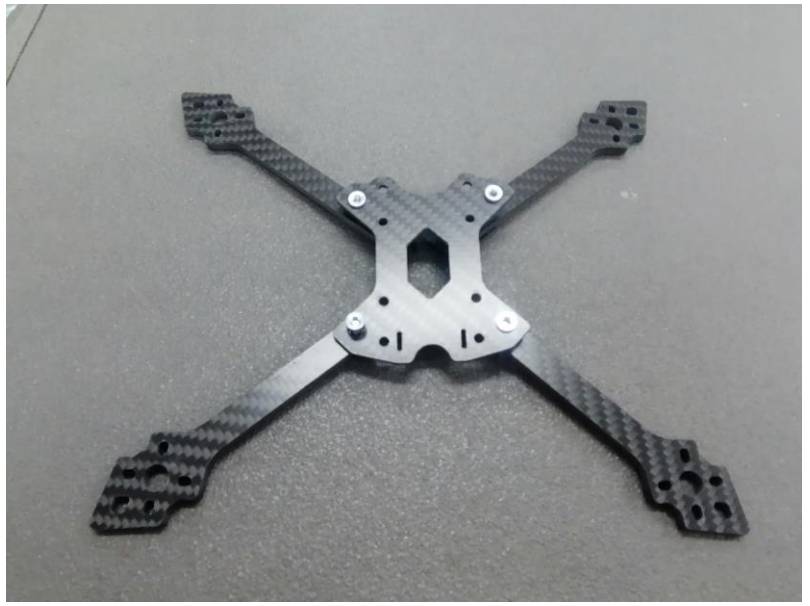
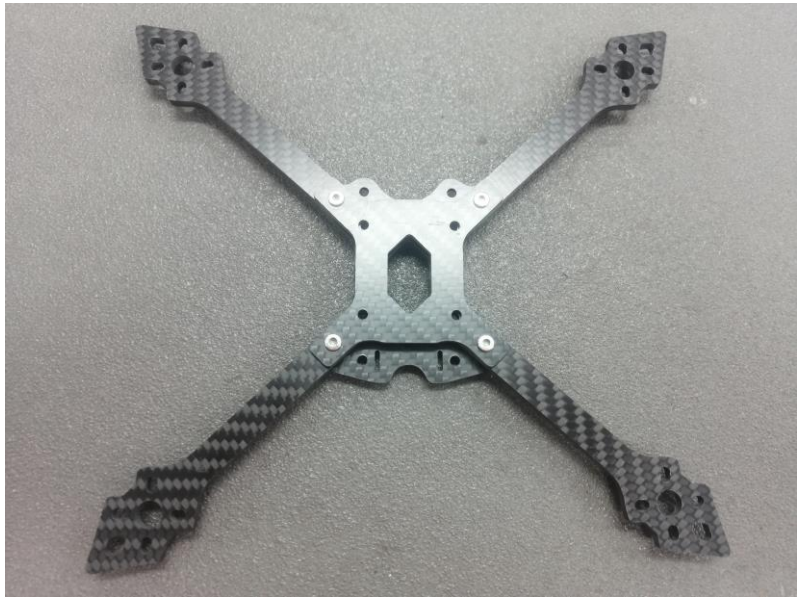
TX RX Gn V+

Check connection Polarity

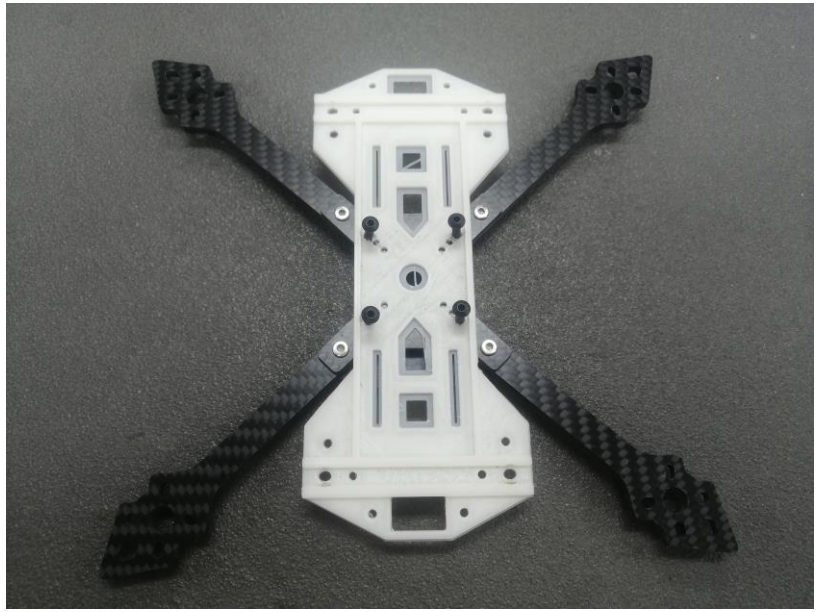
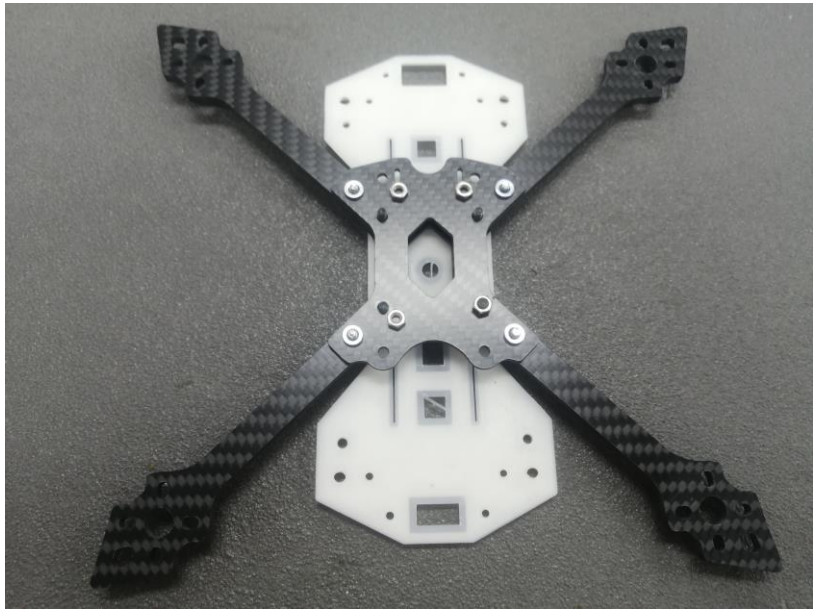
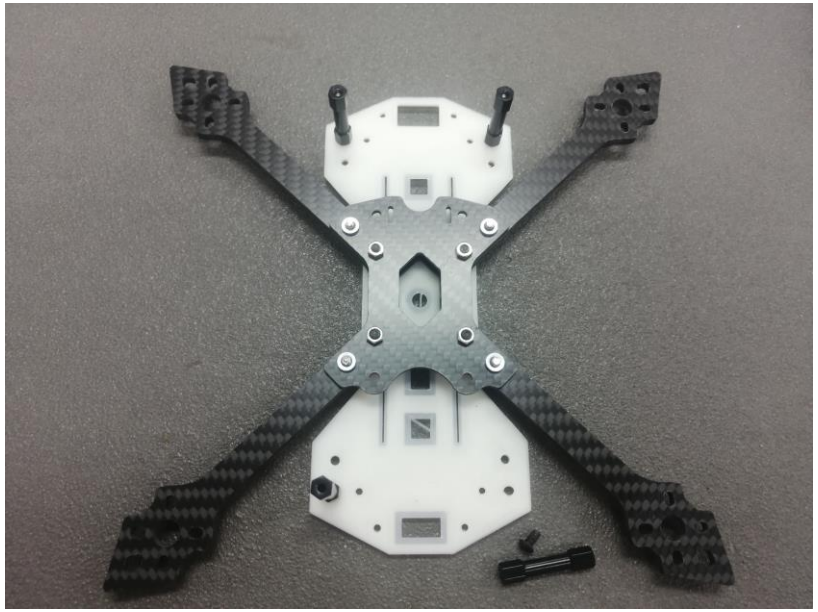
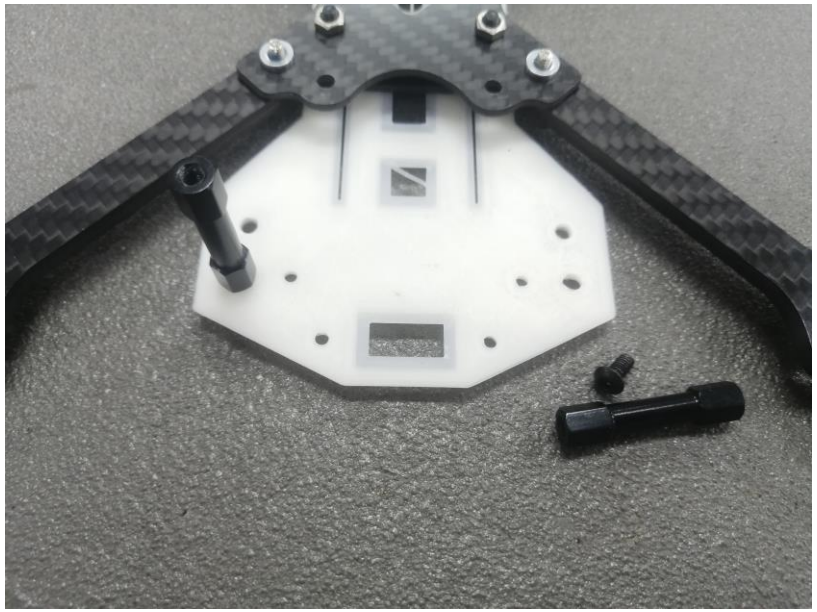
FRAME ASSEMBLY

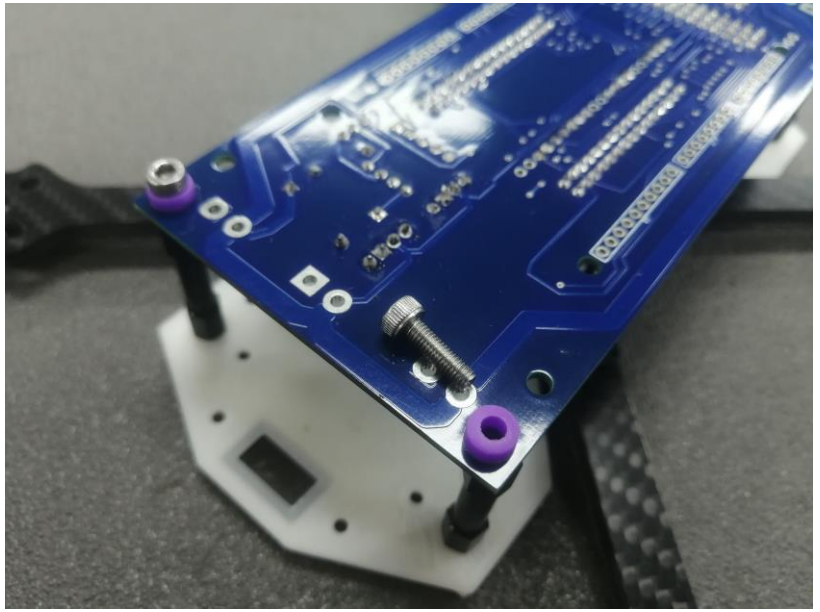
CF adapter is intended to make Synerduino compatible on most FPV drone frame from 5” to 12” class



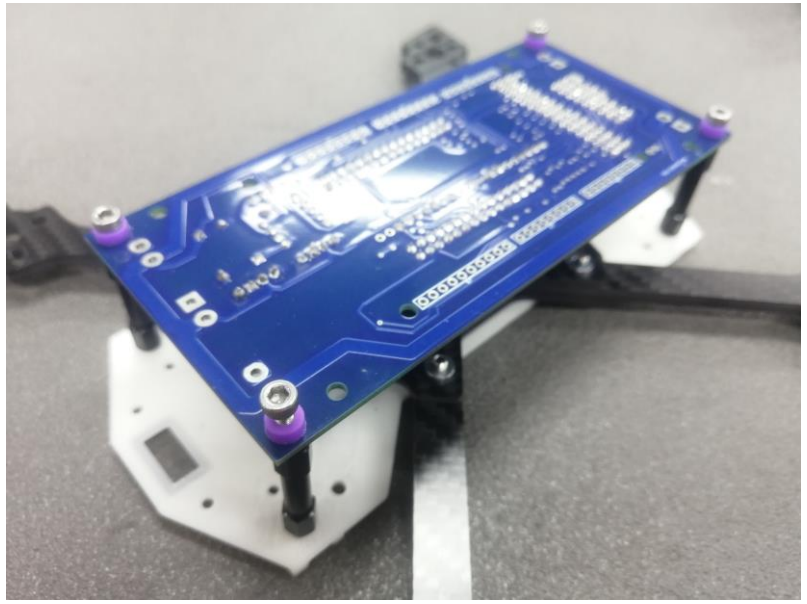







Assemble the CF plates and Arms using the Bolts and nuts provided

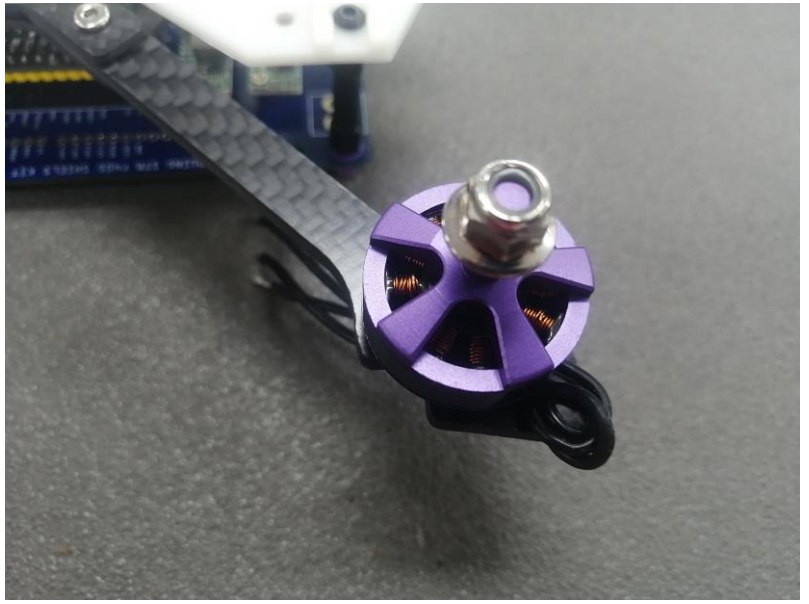





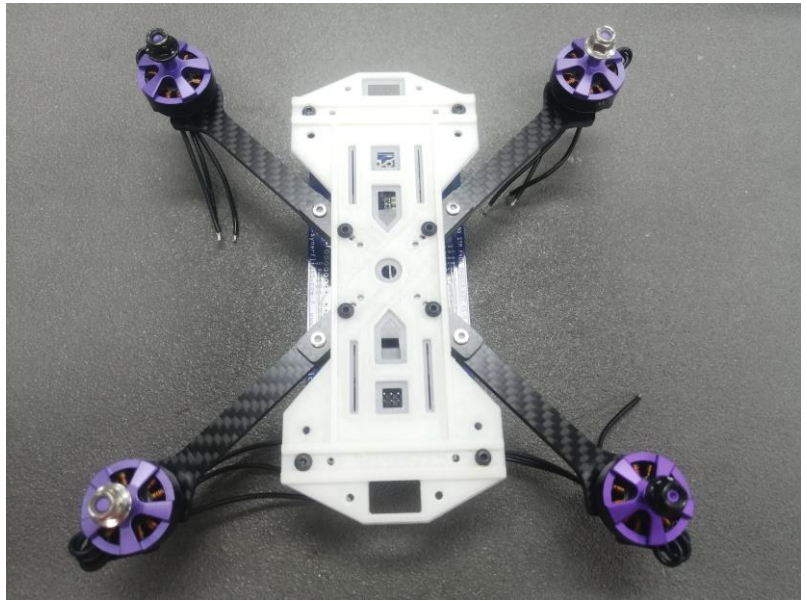


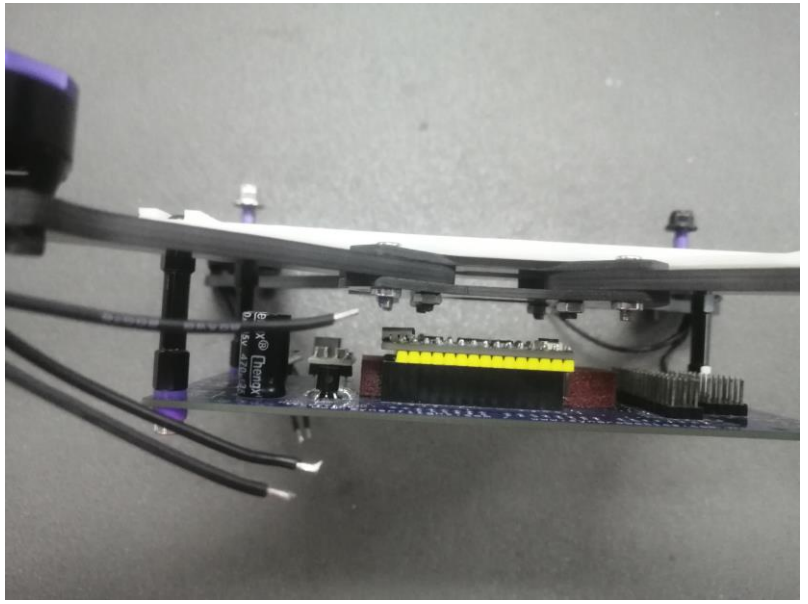
Attach the Adapter plate and Synerduino board using the spacers provided











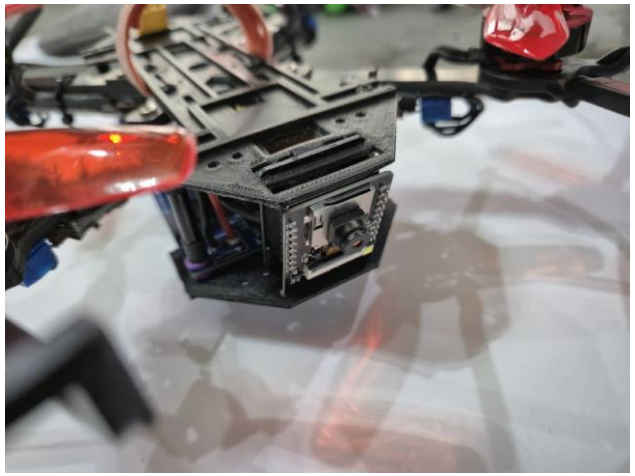
Note : this frame is design to use M3 bolts with thread length of 6mm with washer as fittings included in the set (use the shortest bolt that came with the motor set)
Ensure that the bolt thread does not touch the inner wire coils of the motor
Use small amount of PVA white Glue to Thread Lock the bolt in place Preventing it from going loose

Accessory



V3 Accessory Top and Bottom Adapter Plate allows installation of mounting points for sensors and other electronic hardware

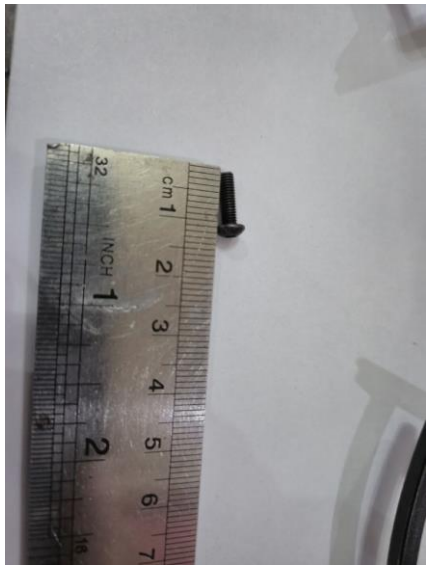


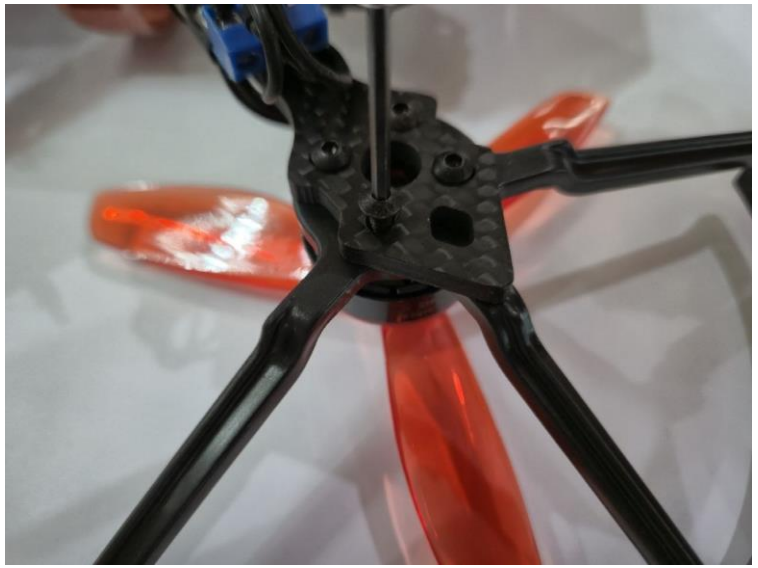


Accessory

Propguard Option required replacing the replacing
the 6mm bolt with a 10mm bolt













Once all the hardware been calibrated tune and setup you may zip tie the ESC and Tape insulate all the Solder Pads to prevent Short

Check twice plug once

Check Polarity and connection assignments of all your wires prior to plugging it in.