Preparation Guide

Synerduino STM

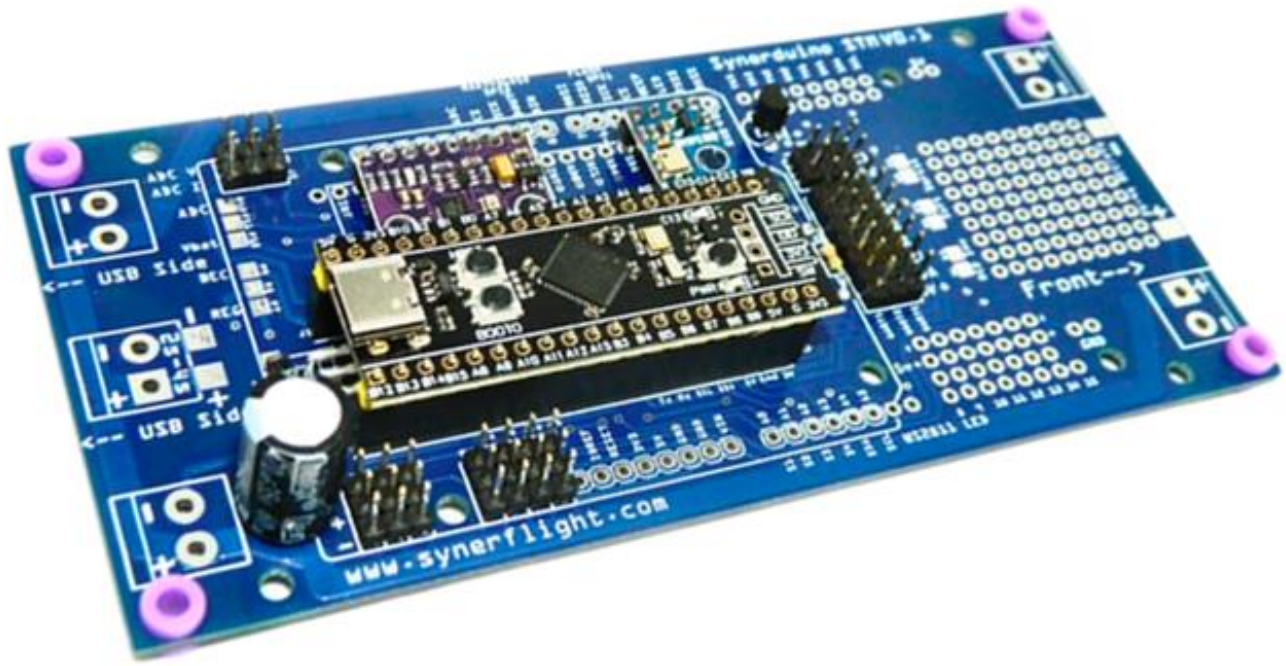
VERSIONS: F405, F411, H743

For more Information:
www.synerflight.com

INTRODUCTION

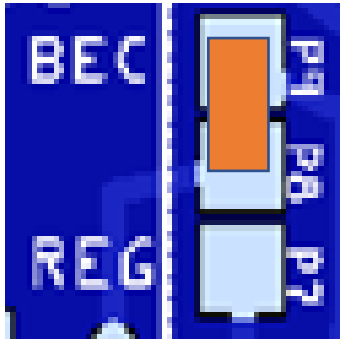
Preparing your Synerduino Board for Configuration and installation of Components

Soldering and Glue is require in this stage

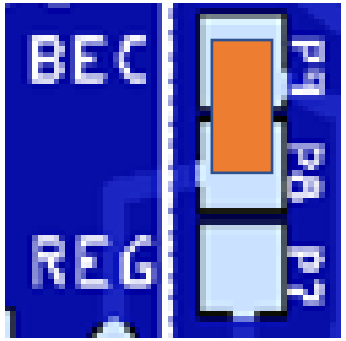


F411 SELECTOR PADS

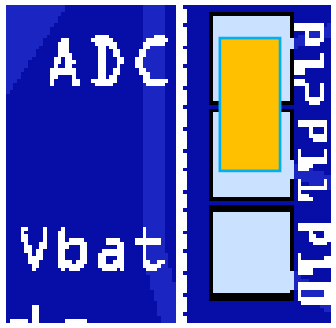
To Select two adjacent pads must be shorted with a solder jumper blob



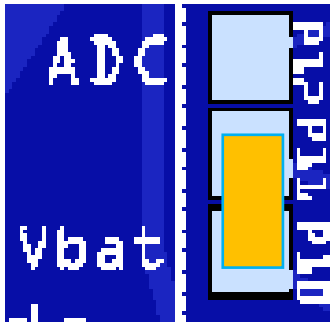
P9-P8 : BEC –this is use if you have a BEC powering through the ESC w/UBEC or an Standalone UBEC or Buck Converter Plug into S2 Pin BEC input is 5V



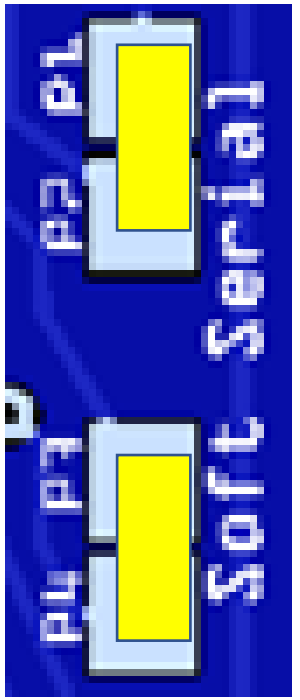
P8-P7 : REG –this is use if you just Run basics to power just the main drone board , GPS , Telemetry and Receiver



P12-P11 ADC Sensor Input



P11-P10 ADC Voltage Monitoring input



P1-P2 P3-P4 Softserial activates the TXSS and RXSS connection to the expansion pins for Prototyping board serial

Connection

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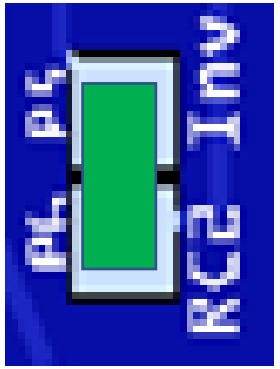
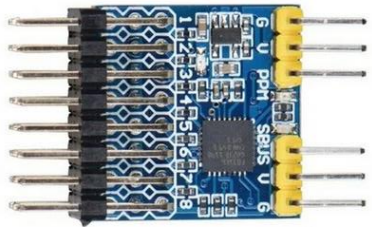
Note: the power rails would support upto 4s safely

For 6s setup this would require an external UBEC to supply 5V

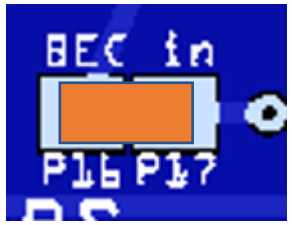


P5-P6 RC2 Inv : inverts the Sbus signals which activates the RC2 Sbus pin input to the UART2



SBUS Converters for Receivers that supports PPM and PWM only

F405 & H743 SELECTOR PADS



P16-P17 : BEC –this is use if you have a BEC powering through the ESC w/UBEC or an Standalone UBEC or Buck Converter Plug into S2 Pin BEC input is 5V

Default Onboard Regulator

Default ADC1 input

P18-P19 ADC activate Battery monitoring

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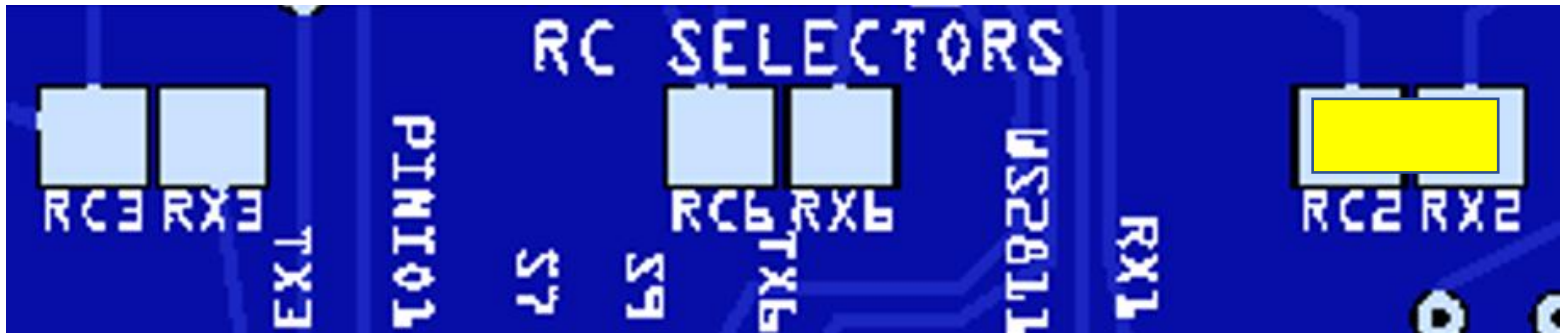
Note: the power rails would support only 2s 7.2V - 6s 24.8V safely

For 6s and Higher setup this would require an external UBEC to supply 5V

For ESCs with UBEC ensure it outputs 5V



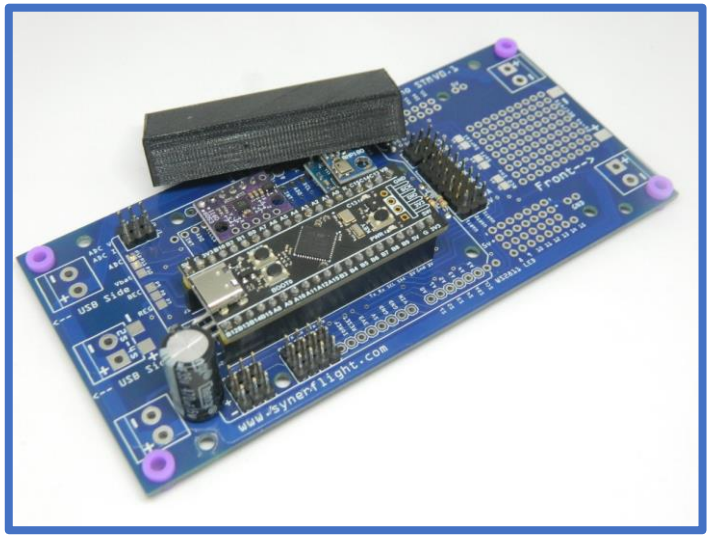
(H743 Boards) RC1 & RC2 PIN can be reassign to 3 different UARTs

UART2 for RC2-RX2

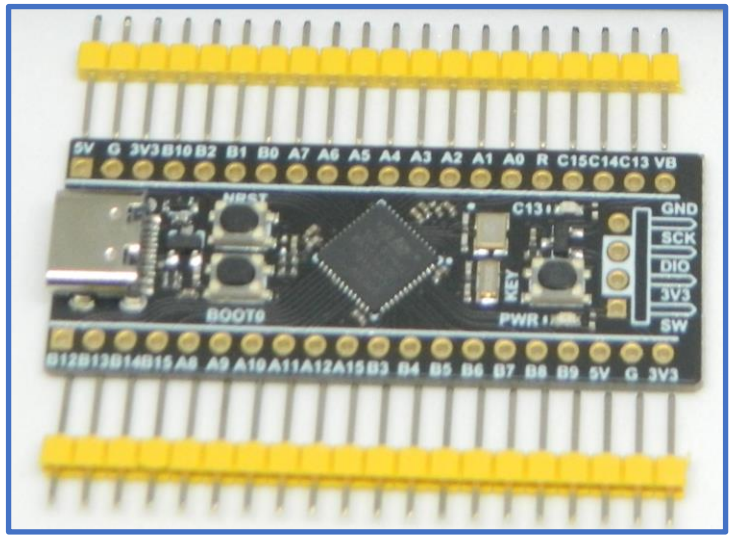
UART6 for RC6-RX6

To Select two adjacent pads must be shorted with a solder blob

BOARD PREPARATION



IMU Sensors must be covered with the provided housing glued into place using PVA white glue on the rim of the cover



Processor headers install on the underside and soldered in