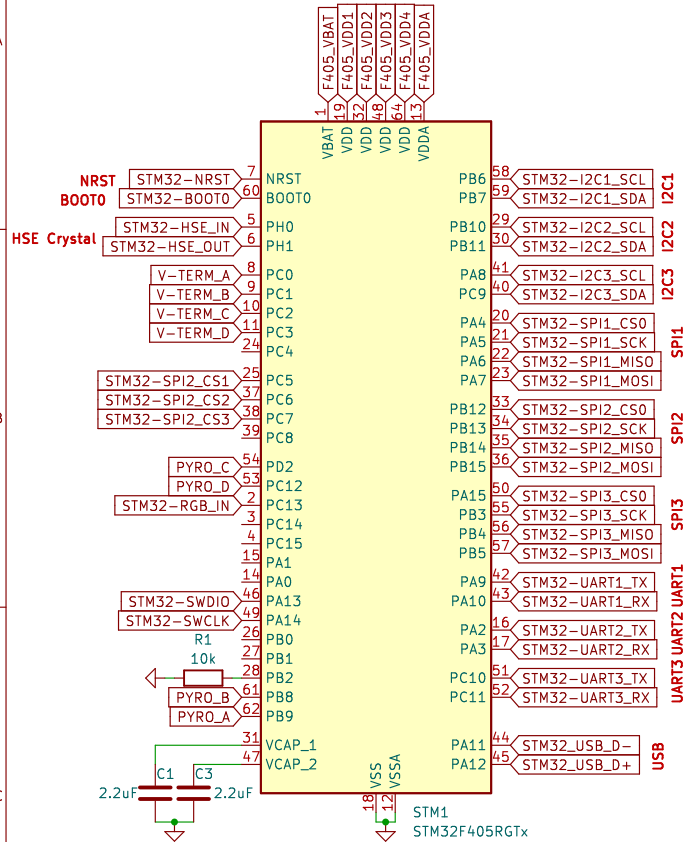
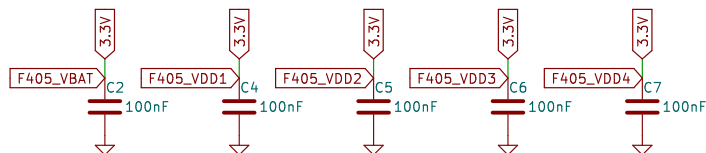


MCU - STM32

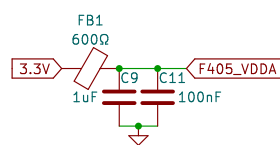


SDO - Serial Data Out -> Microcontroller In Sensor Out
SDI - Serial Data In -> Microcontroller Out Sensor In

MCU Decoupling Caps

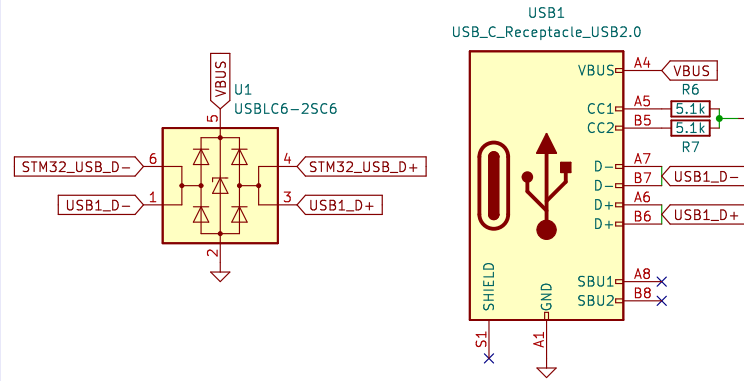


EMI Filter



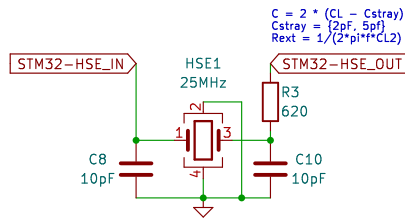
Do Math To Find CAP and R Values

USB-C (STM32)



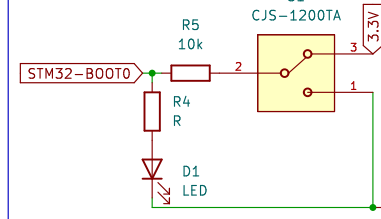
ABM8G-25.000MHZ-4Y-T3

HSE Crystal



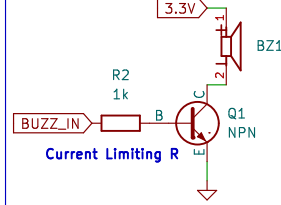
Do Math To Find CAP and R Values

BOOT0 Switch



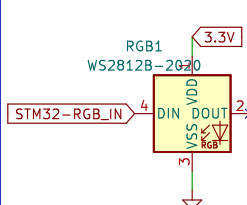
Do BOOT0 & RST Pins have Internal pull-ups/pull-downs?

Buzzer



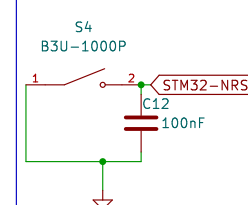
Current Limiting R

RGB Led

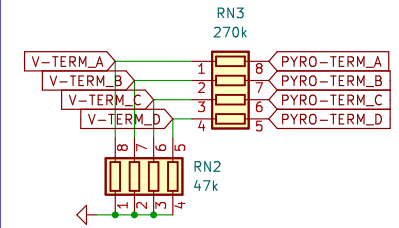


Replace with 'Mini'

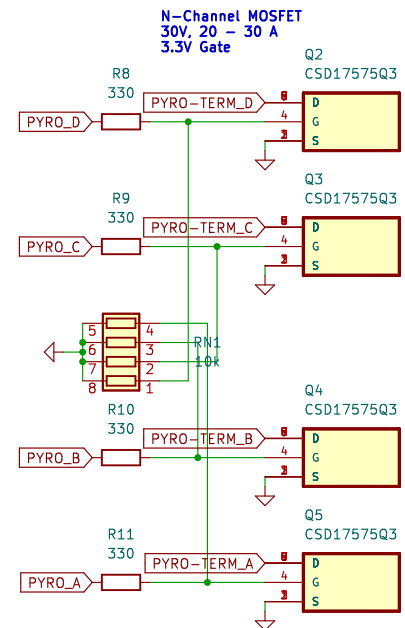
Reset Switch



Pyro Voltage & Cont. (STM32)



Pyro Terminals (STM32)



nyuad.space

Aether Flight Computer

Sheet: /

File: aether.kicad_sch

Title: MCU - STM32 Schematic

Size: A4

Date:

KiCad E.D.A. kicad 7.0.6-0

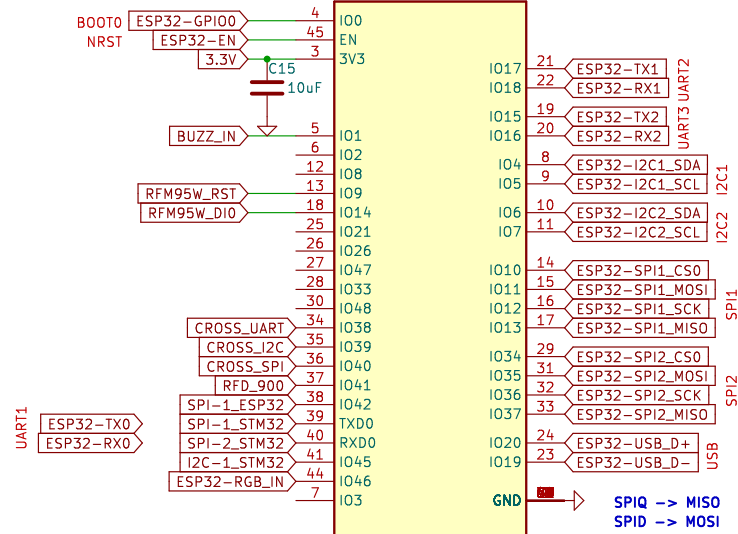
Rev:

Id: 1/5

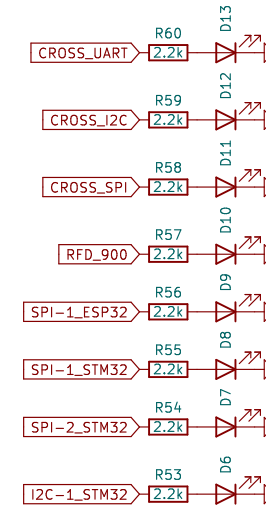


MCU – ESP32

ESP1
ESP32-S3-MINI-1U-N8

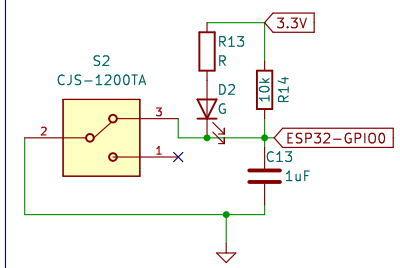


LED Indicators

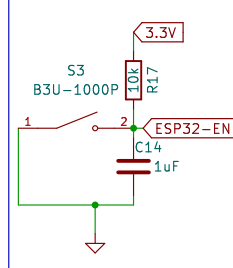


Do BOOT0 & RST Pins have internal pull-ups/pull-downs?

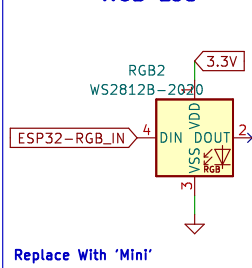
BOOT0 Switch



Reset Switch



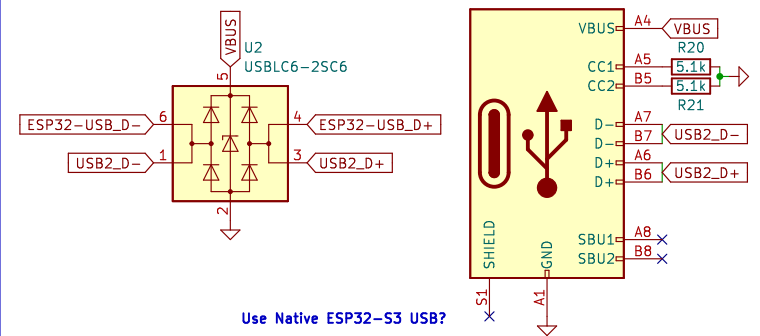
RGB Led



Replace With 'Mini'

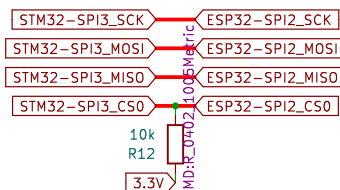
USB-C (ESP32)

USB2
USB_C_Receptacle_USB2.0

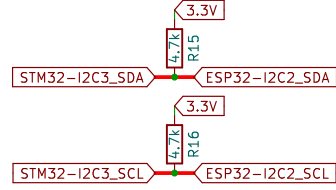


Use Native ESP32-S3 USB?

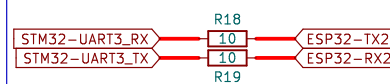
SPI 3 (STM32) – SPI 2 (ESP32)



I2C 3 (STM32) – I2C 2 (ESP32)



UART 3 (STM32) – UART 2 (ESP32)



nyuad.space

Aether Flight Computer

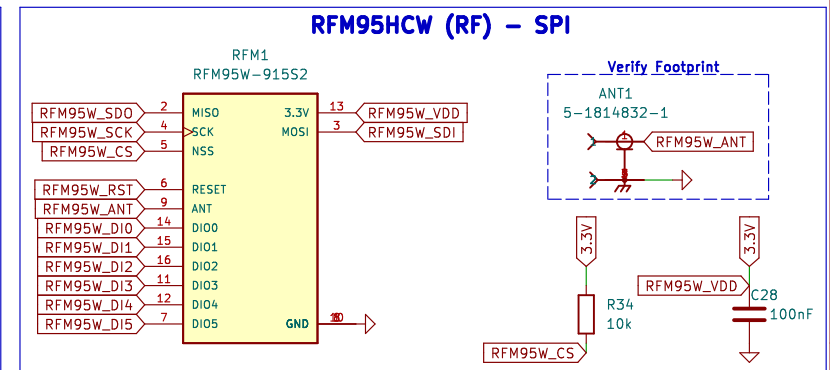
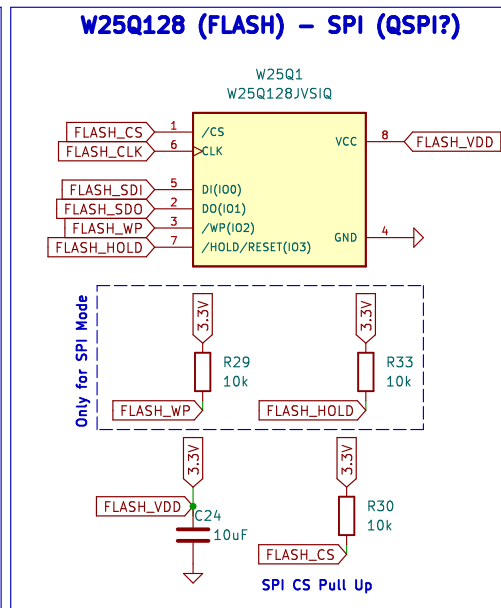
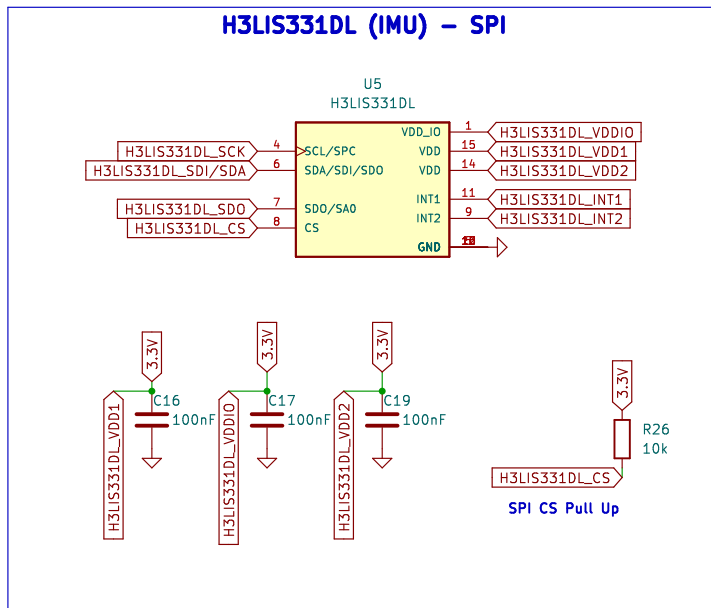
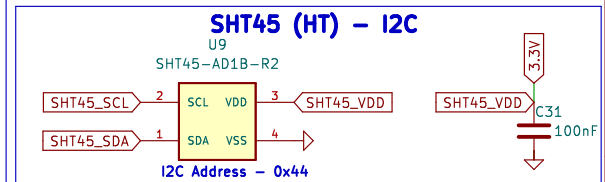
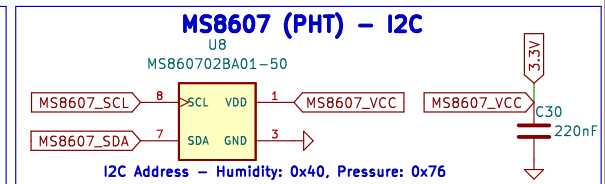
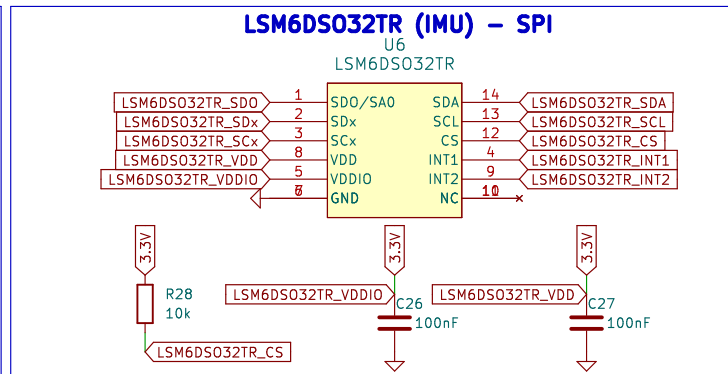
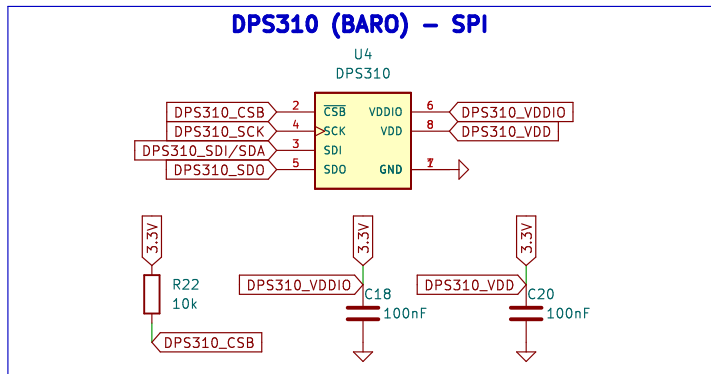
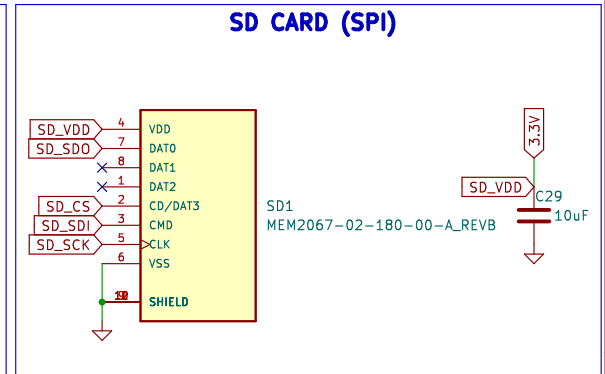
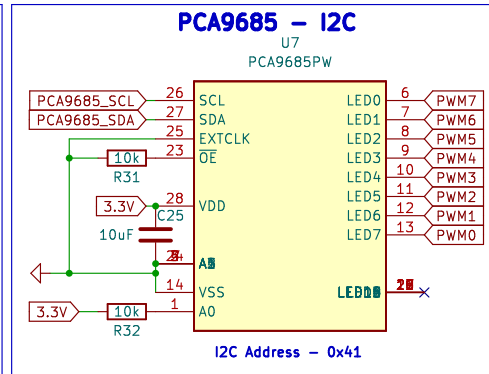
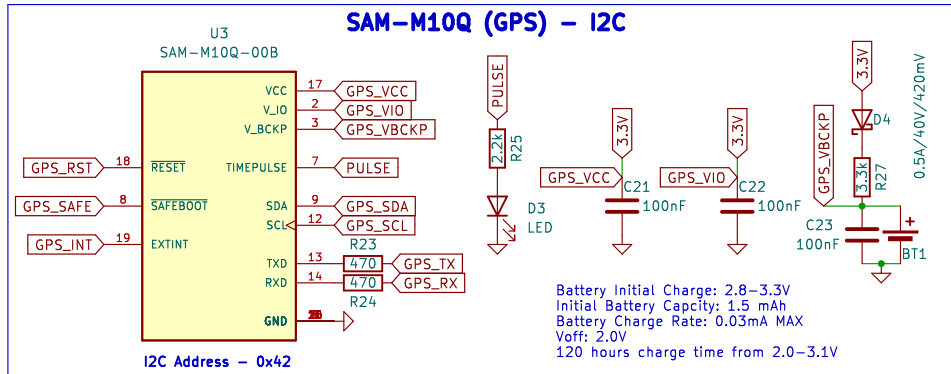
Sheet: /esp32/
File: esp32.kicad_sch

Title: MCU – ESP32 Schematic

Size: A4 Date:
KiCad E.D.A. kicad 7.0.6-0

Rev:
Id: 2/5





nyuad.space

Aether Flight Computer

Sheet: /sensors/
File: sensors.kicad_sch

Title: Sensors & Active Components

Size: A4

Date:

KiCad E.D.A. kicad 7.0.6-0

Rev:

Id: 3/5



