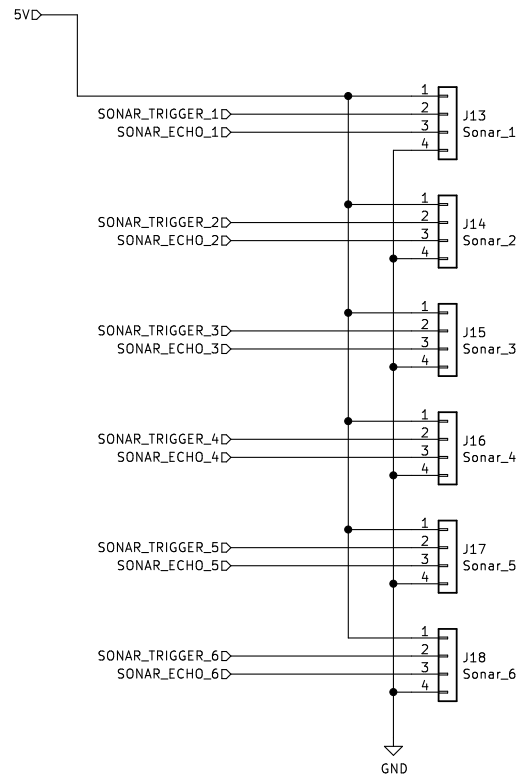


# MULTI SONAR INPUT



**Oddisy Drone Deployment System**

Sheet: /Sonar/

File: Sonar.sch

**Title: Flight Safety Board**

Size: A4

Date: 2018-10-21

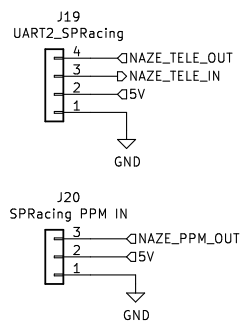
Rev: 1

KiCad E.D.A. kicad (5.0.1)-3

Id: 2/14

# FLIGHT CONTROLLER

UART1 on SPRacing F3 Board used for telemetry data back to safety board  
UART2 on SPRacing F3 Board used for ESC telemetry data



**Oddisy Drone Deployment System**

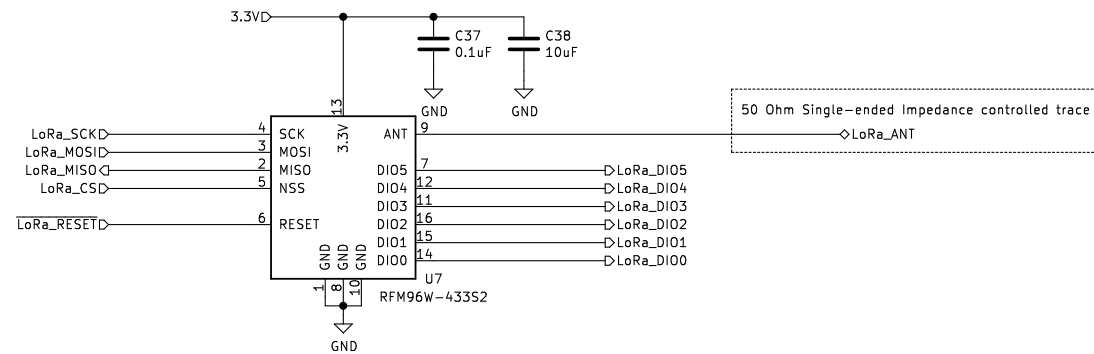
Sheet: /Naze/  
File: naze.sch

**Title: Flight Safety Board**

Size: A4      Date: 2018-10-21  
KiCad E.D.A.    kicad (5.0.1)-3

**Rev: 1**  
Id: 3/14

# 433MHz RF TRANSCEIVER MODULE



## Oddisy Drone Deployment System

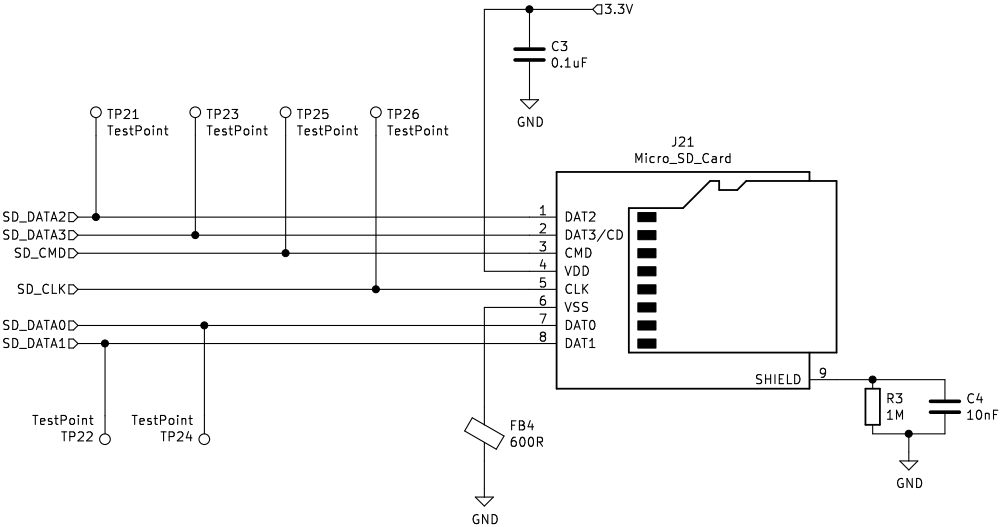
Sheet: /LoRa/  
File: LoRa.sch

## Title: Flight Safety Board

Size: A4 Date: 2018-10-21  
KiCad E.D.A. kicad (5.0.1)-3

Rev: 1  
Id: 4/14

# BLACKBOX



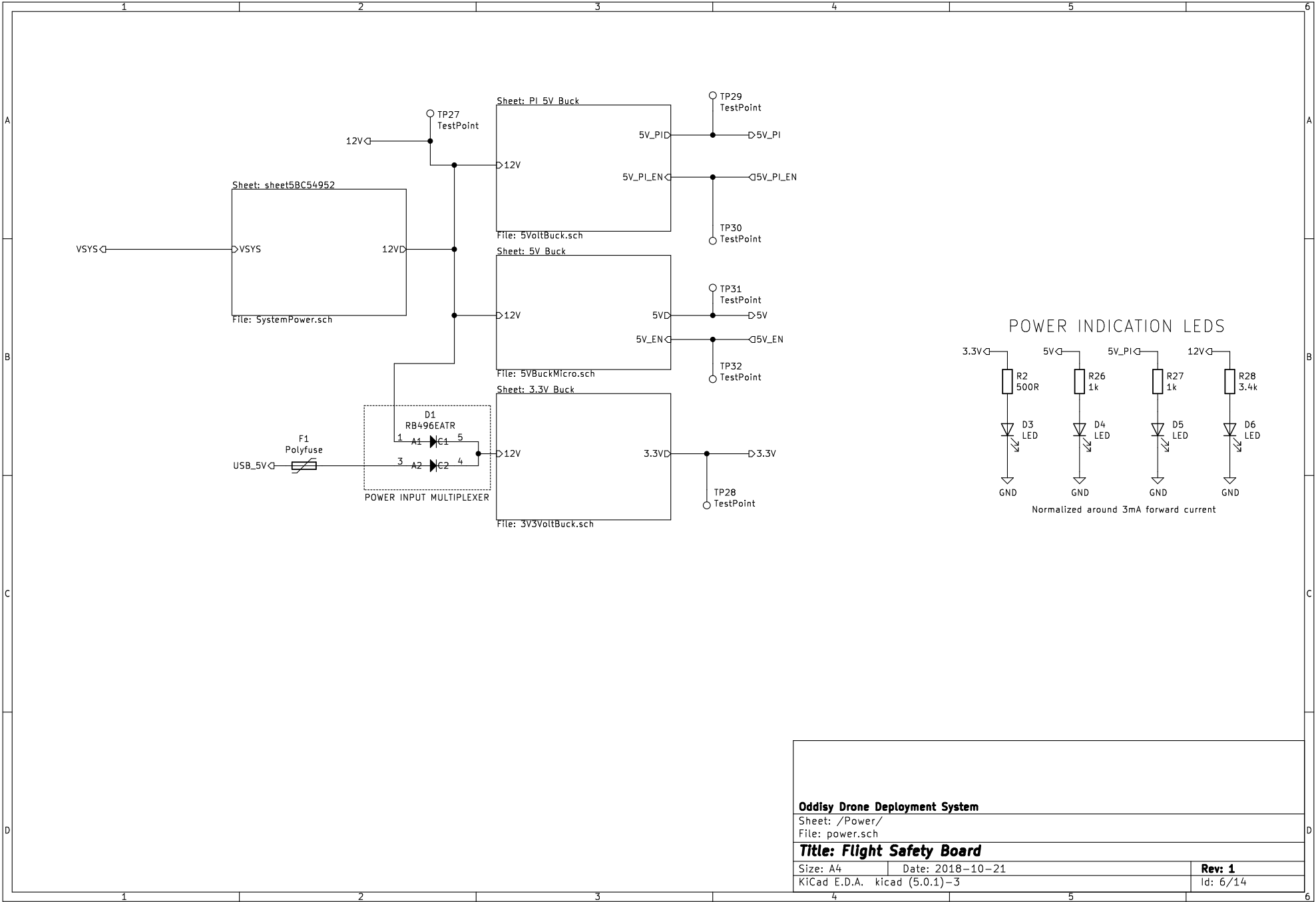
**Oddisy Drone Deployment System**

Sheet: /BlackBox/  
File: blackbox.sch

**Title: Flight Safety Board**

Size: A4      Date: 2018-10-21  
KiCad E.D.A.    kicad (5.0.1)-3

**Rev: 1**  
Id: 5/14



**Oddis Drone Deployment System**

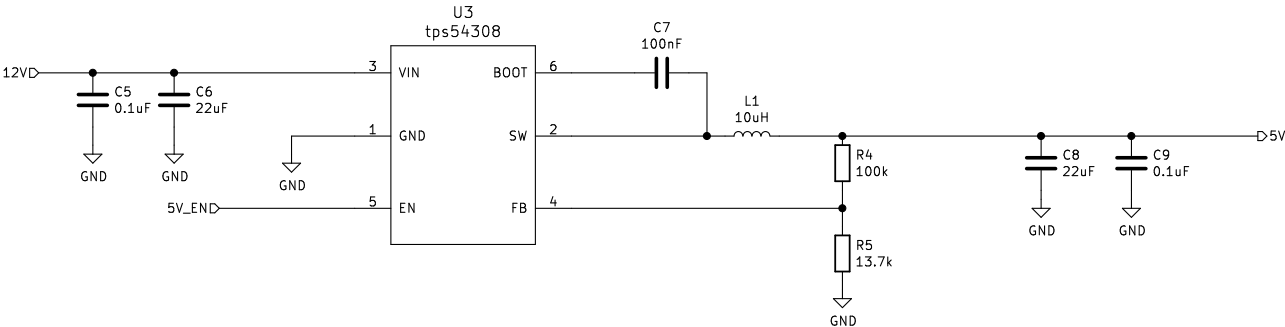
Sheet: /Power/  
File: power.sch

**Title: Flight Safety Board**

Size: A4 Date: 2018-10-21  
KiCad E.D.A. kicad (5.0.1)-3

Rev: 1  
Id: 6/14

# 5V BUCK CONVERTER



**Oddisy Drone Deployment System**

Sheet: /Power/5V Buck/

File: 5VBuckMicro.sch

**Title: Flight Safety Board**

Size: A4

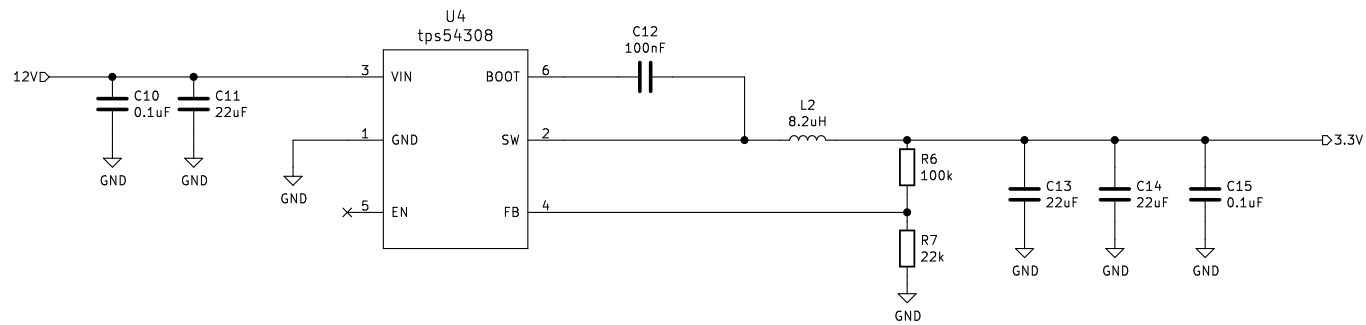
Date: 2018-10-21

Rev: 1

KiCad E.D.A. kicad (5.0.1)-3

Id: 7/14

# 3.3V BUCK CONVERTER



## Oddisy Drone Deployment System

Sheet: /Power/3.3V Buck/

File: 3V3VoltBuck.sch

## Title: Flight Safety Board

Size: A4

Date: 2018-10-21

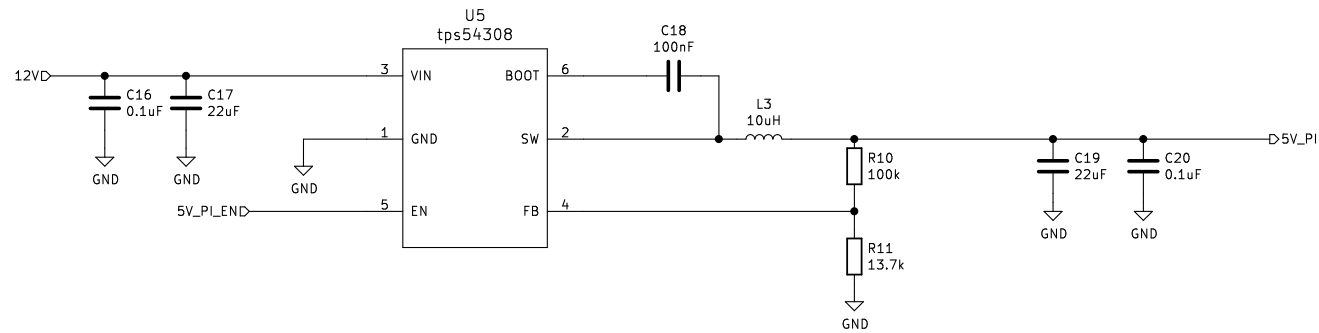
Rev: 1

KiCad E.D.A. kicad (5.0.1)-3

Id: 8/14



# PI 5V BUCK CONVERTER



## Oddisay Drone Deployment System

Sheet: /Power/PI 5V Buck/

File: 5VoltBuck.sch

## Title: Flight Safety Board

Size: A4

Date: 2018-10-21

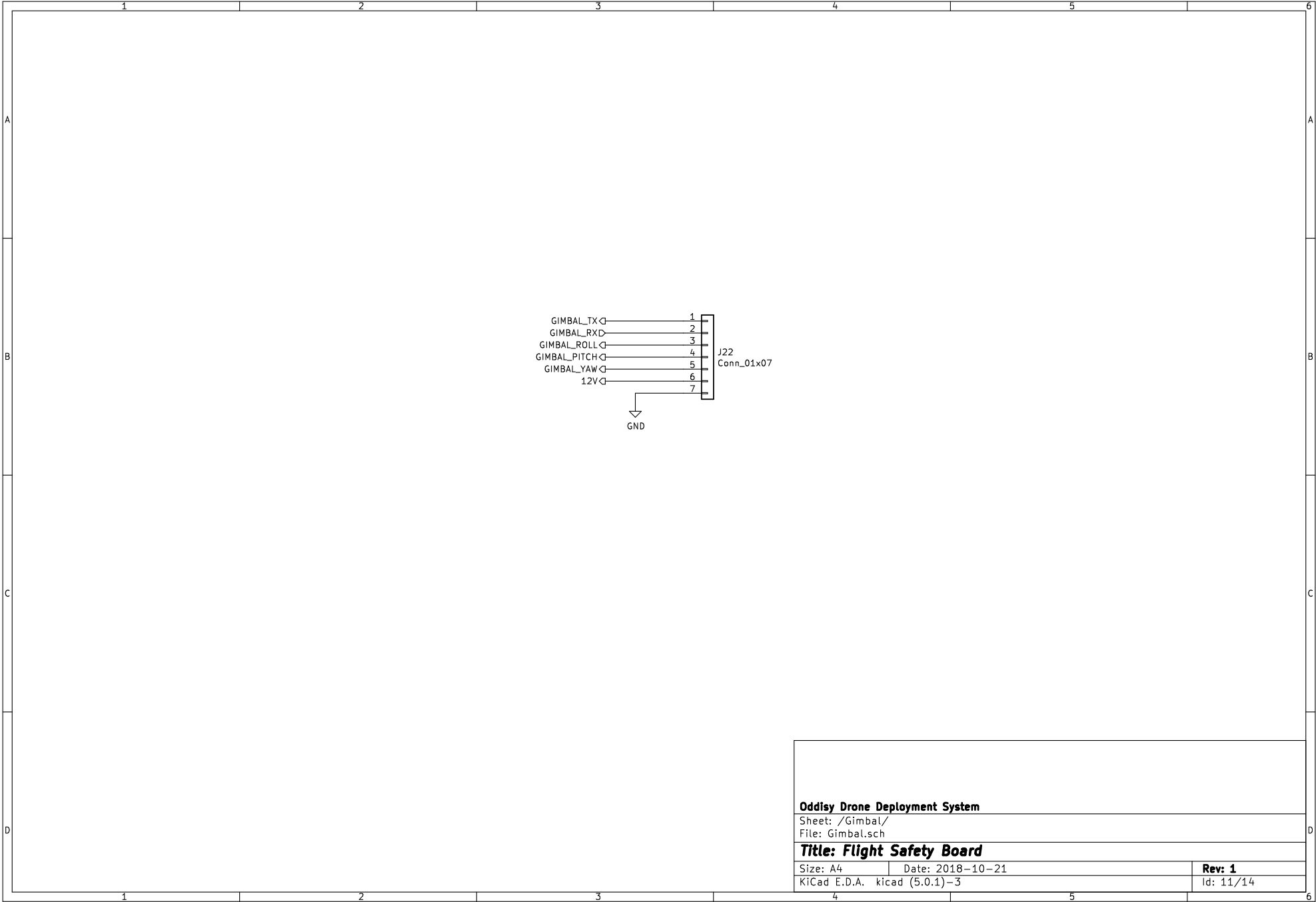
Rev: 1

KiCad E.D.A. kicad (5.0.1)-3

Id: 9/14

[illegible]

Id: 10/14



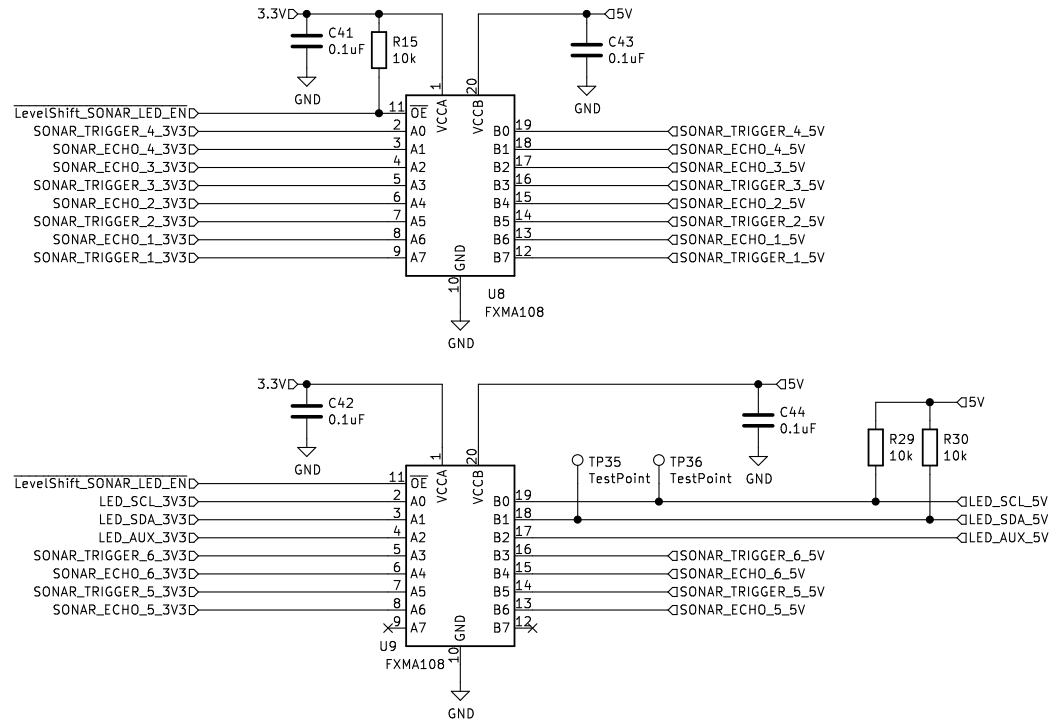
**Oddisy Drone Deployment System**

Sheet: /Gimbal/  
File: Gimbal.sch

**Title: Flight Safety Board**

Size: A4	Date: 2018-10-21	Rev: 1
KiCad E.D.A. kicad (5.0.1)-3	Id: 11/14	

# LEVEL SHIFT 3.3V <----> 5V



## Oddisay Drone Deployment System

Sheet: /LevelShift\_Sonar\_LED/

File: LevelShift\_Sonar\_LED.sch

## Title: Flight Safety Board

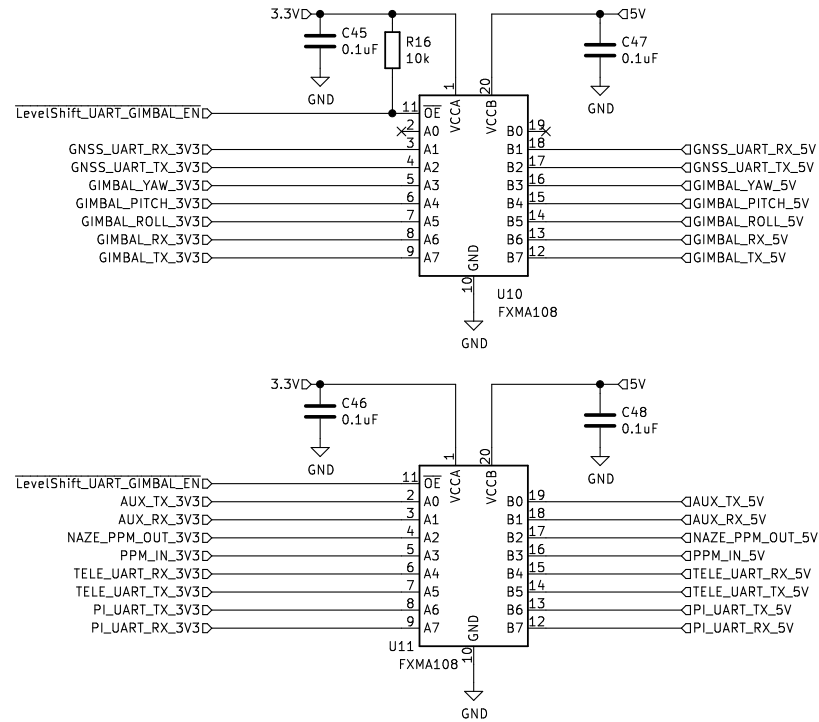
Size: A4 Date: 2018-10-21

KiCad E.D.A. kicad (5.0.1)-3

Rev: 1

Id: 12/14

# LEVEL SHIFT 3.3V <----> 5V



## Oddisay Drone Deployment System

Sheet: /LevelShift\_UART\_GIMBAL/

File: LevelShift\_UART\_GIMBAL.sch

## Title: Flight Safety Board

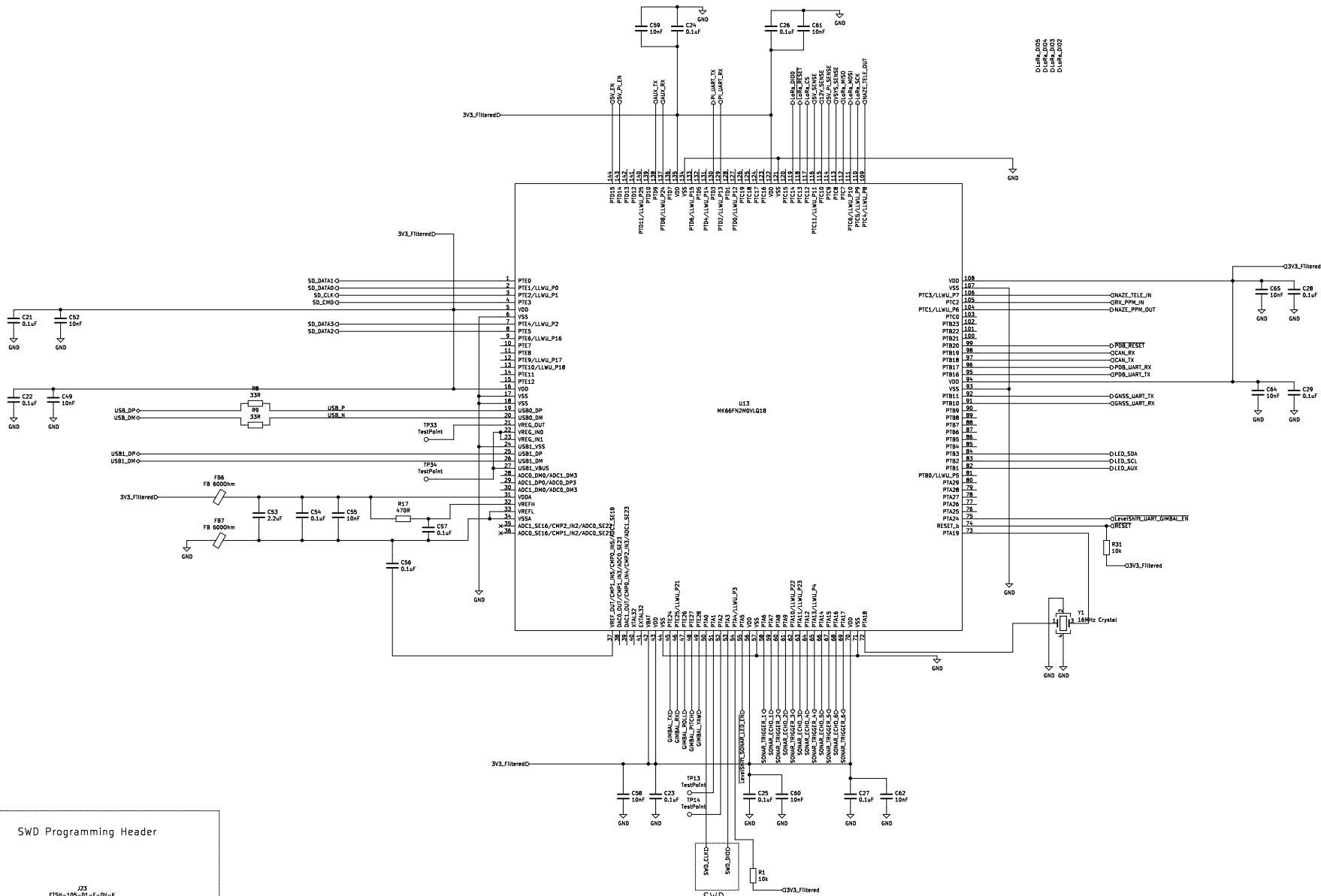
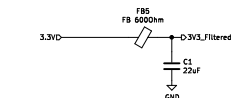
Size: A4 Date: 2018-10-21

KiCad E.D.A. kicad (5.0.1)-3

Rev: 1

Id: 13/14

## FLIGHT SAFETY MICROCONTROLLER



Pin connection diagram for J23 (FTSH-105-01-F-DV-K):

- Pin 1: 3.3V
- Pin 2: OSWD\_DIO
- Pin 3: 3.3V
- Pin 4: OSWD\_CLK
- Pin 5: 3.3V
- Pin 6: (marked with an 'X')
- Pin 7: (marked with an 'X')
- Pin 8: (marked with an 'X')
- Pin 9: GND
- Pin 10: RESET