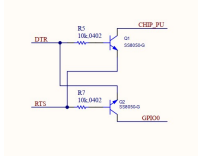
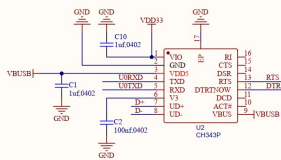
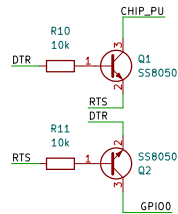
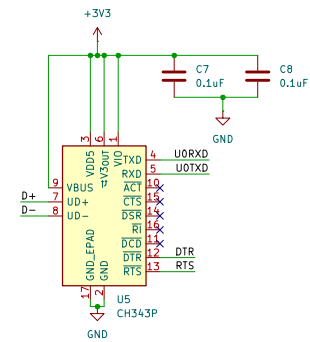
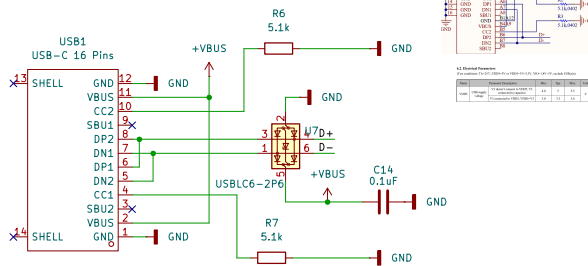
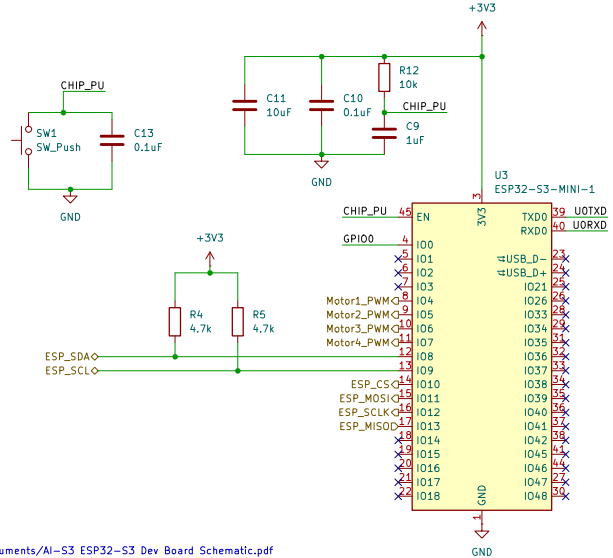


## USB-C Serial to TTL



Ref:documents/AI-S3 ESP32-S3 Dev Board Schematic.pdf

## MCU



Ref:documents/AI-S3 ESP32-S3 Dev Board Schematic.pdf

Anawach A.

Sheet: /MCU/  
File: MCU.kicad\_sch

**Title: Microcontroller Interface**

Size: A4

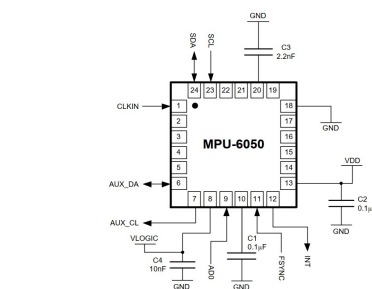
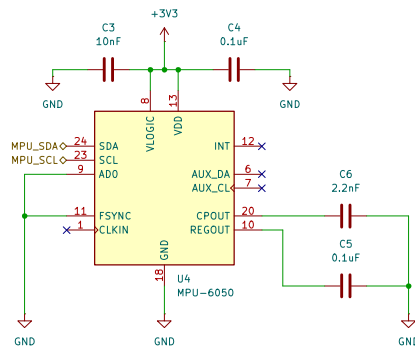
Date:

Rev:

KiCad E.D.A. 9.0.3

Id: 2/5

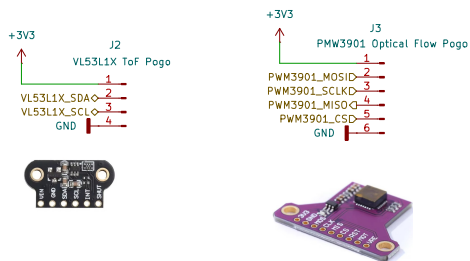
## MPU-6050



11	Y	Y	FSYNC	Frame synchronization digital input. Connect to GND if unused.
12	Y	Y	INT	Interrupt digital output (totem pole or open-drain)

<https://invensense.tdk.com/wp-content/uploads/2015/02/MPU-6000-Datasheet1.pdf>

## Sensors Module



Anawach A.

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File: sensor.kicad\_sch

**Title: Sensor Interface**

Size: A4

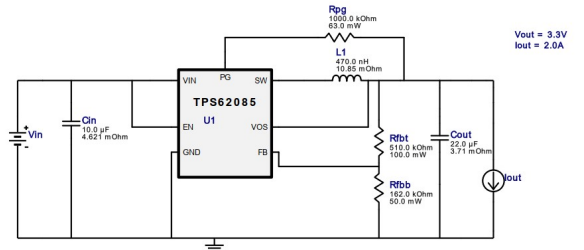
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Rev:

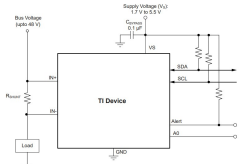
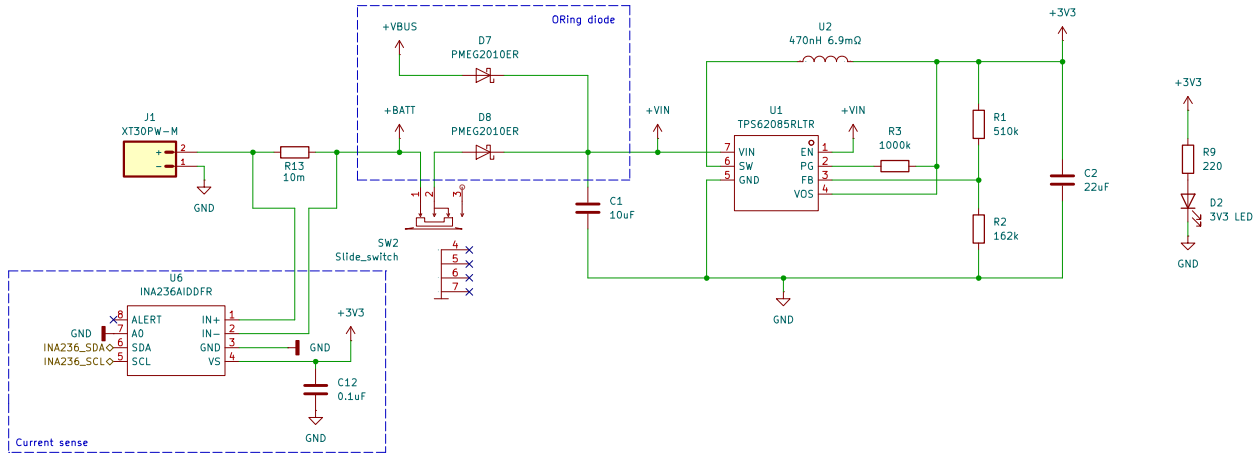
KiCad E.D.A. 9.0.3

Id: 3/5

Design : 19 TPS62085RLTR  
TPS62085RLTR 3.5V-5.2V to 3.30V @ 2A



Report:documents/TPS62085RLTR\_Design\_Report.pdf



Ref:https://item.szlcsc.com/datasheet/INA236AIDDFR/6333219.html

Anawach A.

Sheet: /PSU/  
File: PSU.kicad\_sch

**Title: Power Supply with Voltage and Current Sense Interface**

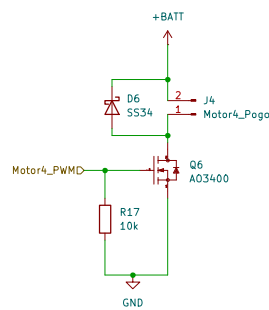
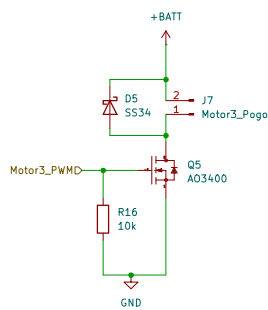
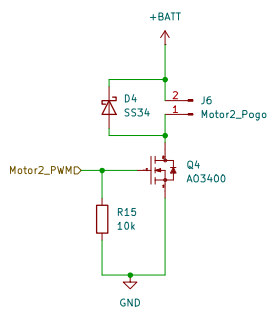
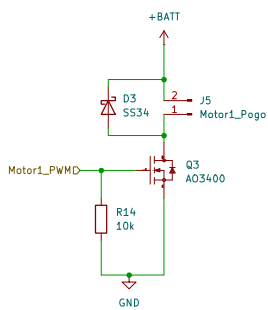
Size: A4

Date:

Rev:

KiCad E.D.A. 9.0.3

Id: 4/5



Anawach A.

Sheet: /Motor Driver/  
File: Motor Driver.kicad\_sch

**Title: Motor Driver Interface**

Size: A4  
KiCad E.D.A. 9.0.3

Date:

Rev:  
Id: 5/5