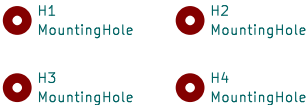
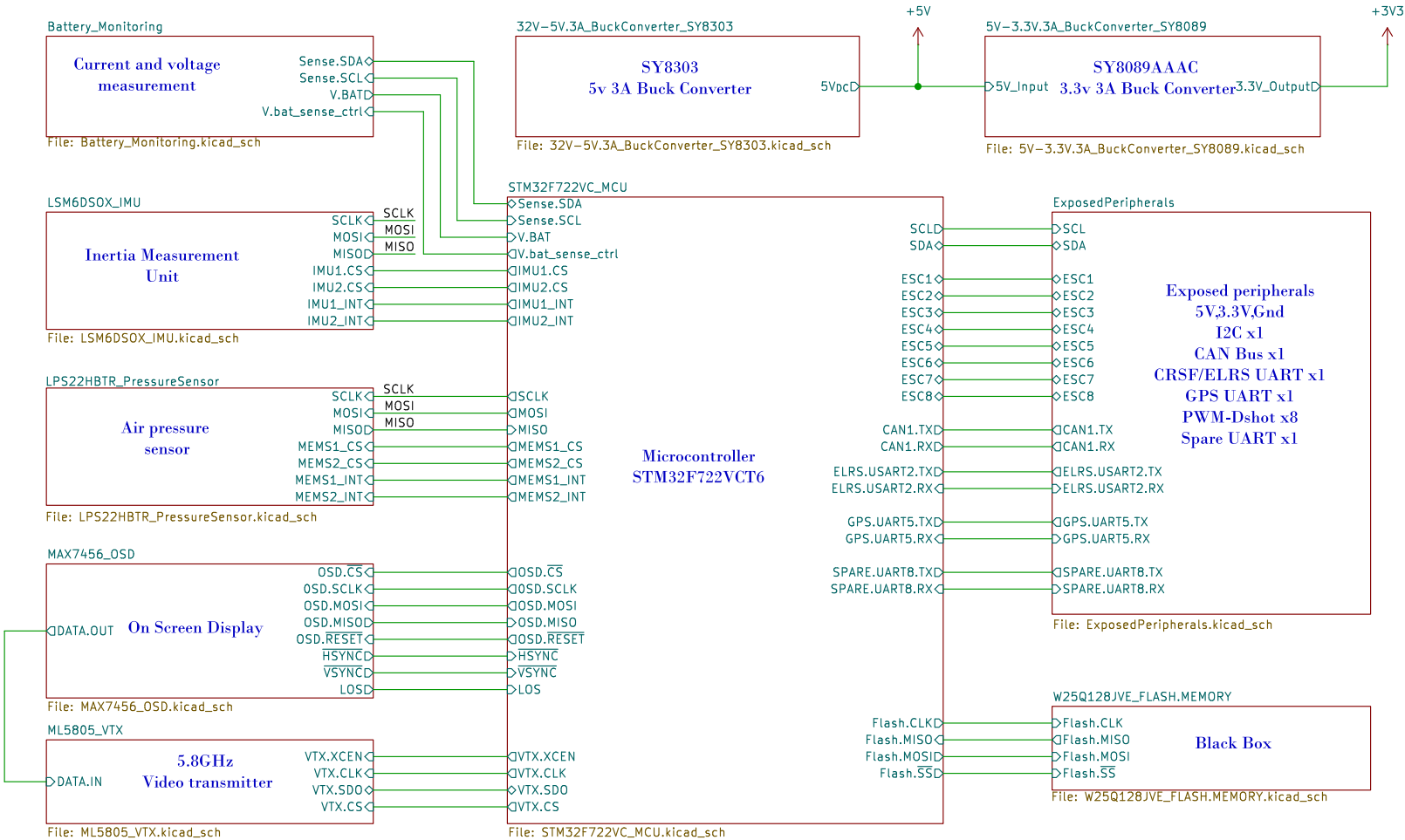
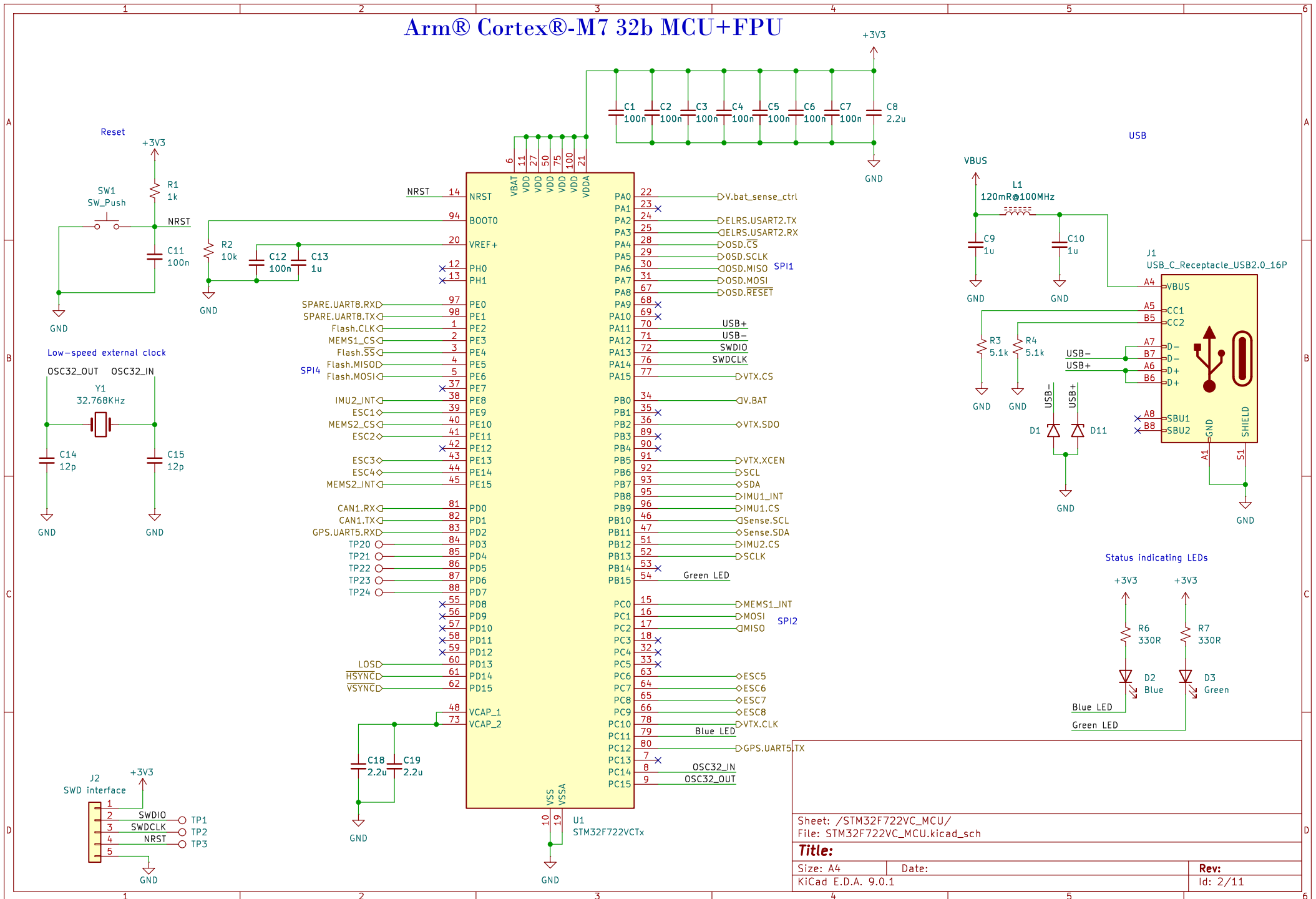


Flying FC



Sheet: /		
File: Flybot_FC.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 9.0.1		Id: 1/11

Arm® Cortex®-M7 32b MCU+FPU



Sheet: /STM32F722VC_MCU/
File: STM32F722VC_MCU.kicad_sch

Title:			
Size: A4	Date:		
KiCad E.D.A. 9.0.1	Rev:		
	Id: 2/11		

[illegible]

Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 9.0.1		Id: 3/11

**5.8GHZ VARIABLE DATA RATE FSK
TRANSCEIVER WITH INTEGRATED PA**

The schematic diagram illustrates the internal circuitry of a 5.8GHz Variable Data Rate FSK Transceiver with an Integrated PA. The central component is the ML5805DM transceiver IC (U3), which is connected to a +3V3 power supply and ground (GND). The circuit includes various passive components such as resistors (R14, R15, R16, R17, R18, R19, R20, R21), capacitors (C27, C28, C29, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58), and inductors (L2, L3). The transceiver IC is connected to an antenna (X1, LFB215G37SG8A180) via a matching network consisting of a series inductor (L2) and a shunt capacitor (C31). The antenna is connected to a ground plane (GND) via a series capacitor (C32) and a shunt inductor (L3). The circuit also includes a variable capacitor (AE1, MMCX) for tuning. The diagram shows connections for data, control, and power pins, along with test points (TP1-TP12).

Sheet: /ML5805_VTX/
File: ML5805_VTX.kicad_sch

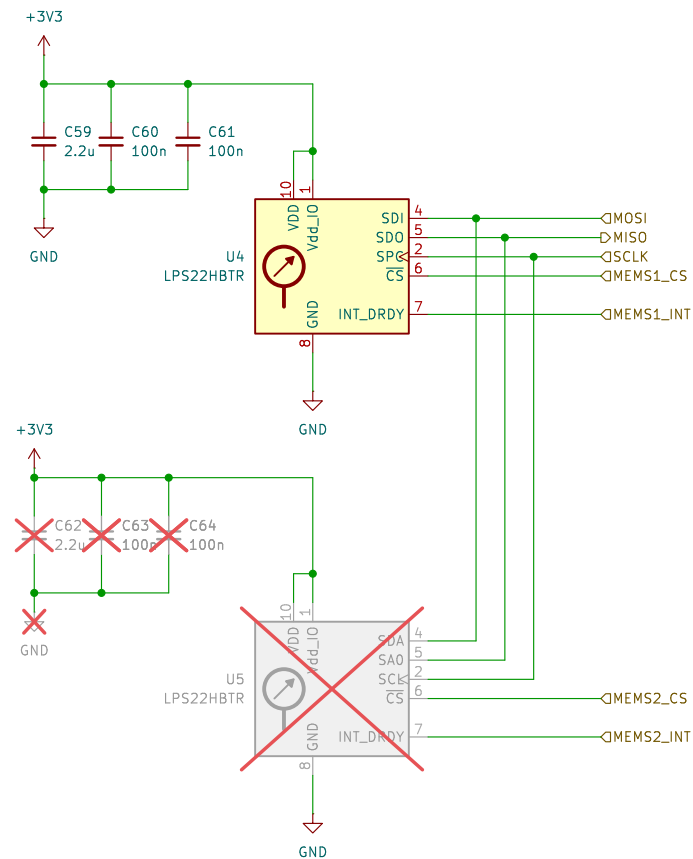
Title:

Size: A4 Date: Rev:

KiCad E.D.A. 9.0.1 Id: 4/11

Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 9.0.1		Id: 4/11

**MEMS nano pressure sensor: 260-1260 hPa absolute
digital output barometer**



Sheet: /LPS22HBTR_PressureSensor/
File: LPS22HBTR_PressureSensor.kicad_sch

Title:

Size: A4

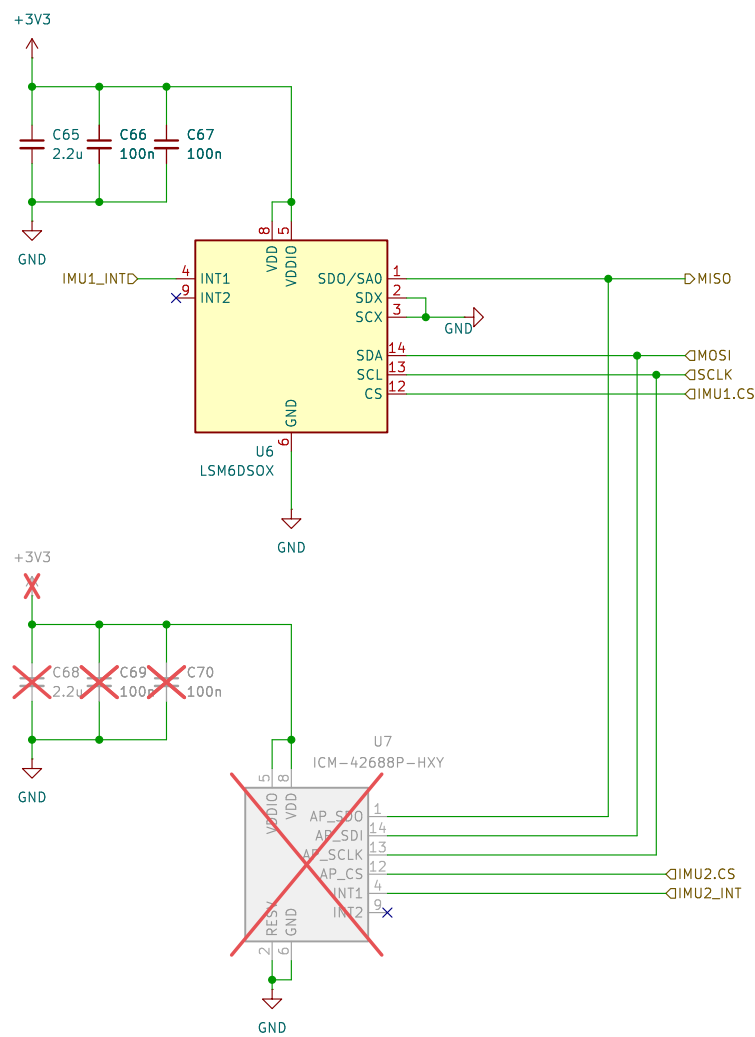
Date:

Rev:

KiCad E.D.A. 9.0.1

Id: 5/11

6-Axis Inertia Measurement Unit



Sheet: /LSM6DSOX_IMU/
File: LSM6DSOX_IMU.kicad_sch

Title:

Size: A4

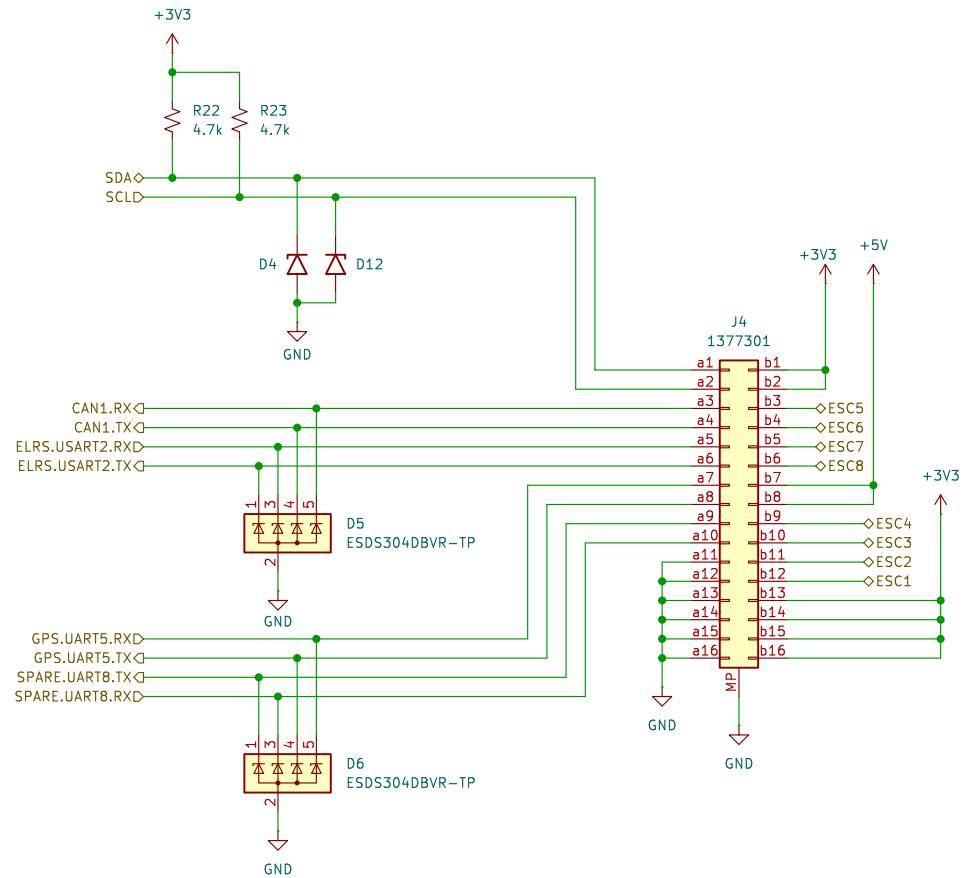
Date:

KiCad E.D.A. 9.0.1

Rev:

Id: 6/11

Exposed peripherals



Sheet: /ExposedPeripherals/
File: ExposedPeripherals.kicad_sch

Title:

Size: A4

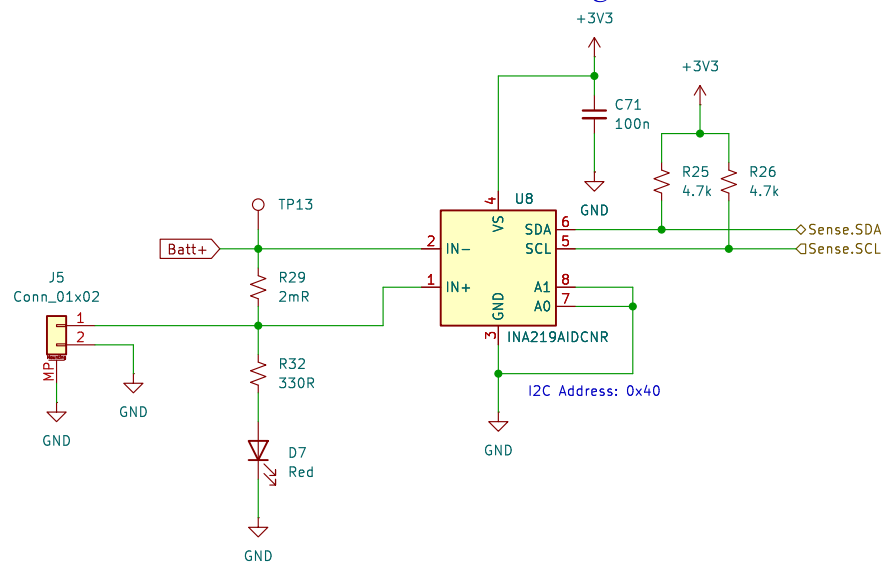
Date:

KiCad E.D.A. 9.0.1

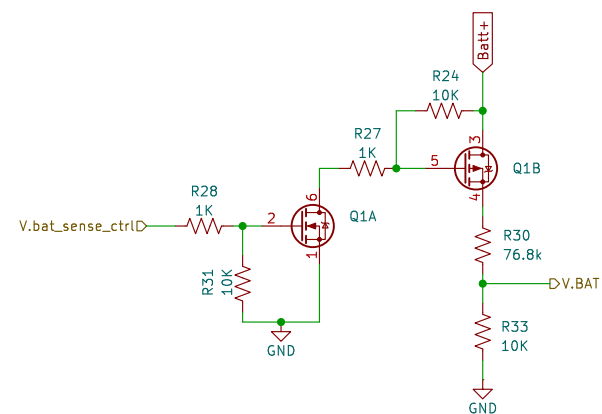
Rev:

Id: 7/11

Current sensing



Battery voltage monitoring



Sheet: /Battery_Monitoring/
File: Battery_Monitoring.kicad_sch

Title:

Size: A4

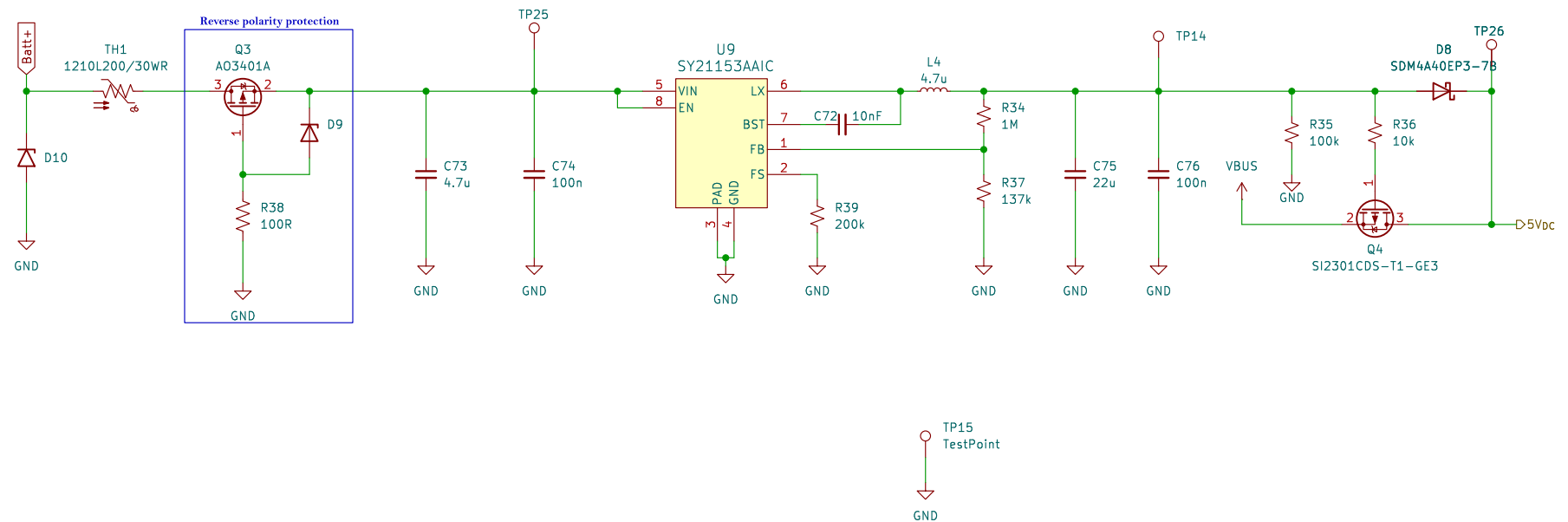
Date:

KiCad E.D.A. 9.0.1

Rev:	
------	--

Id: 8/11

High efficiency synchronous step-down DC-DC converter



Sheet: /32V-5V.3A_BuckConverter_SY8303/
File: 32V-5V.3A_BuckConverter_SY8303.kicad_sch

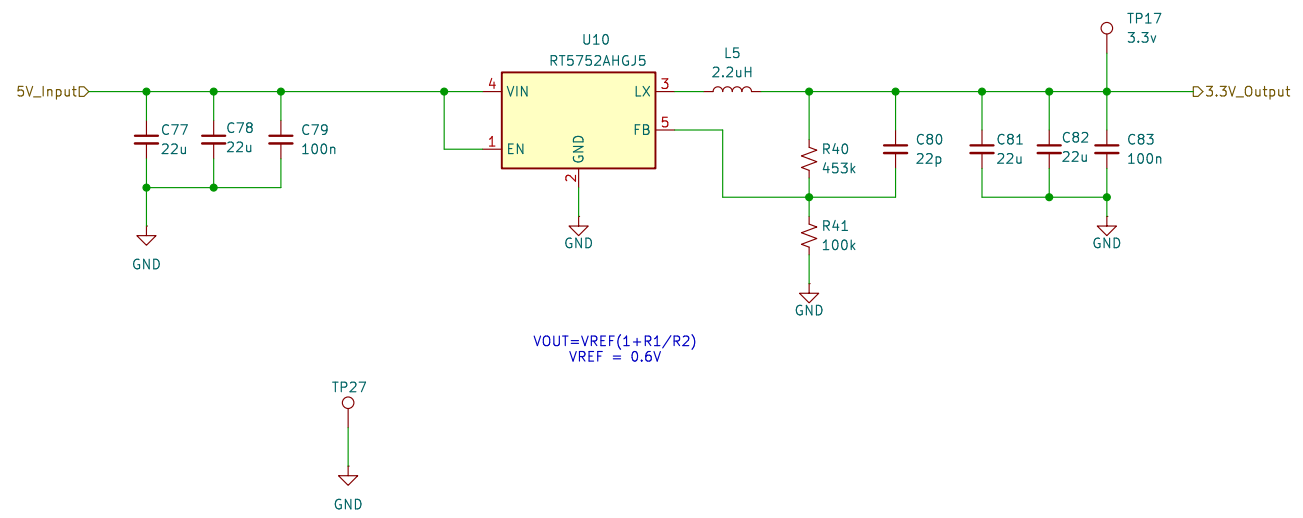
Title:

Size: A4	Date:
KiCad E.D.A. 9.0.1	

Date:

Rev:
Id: 9/11

High Efficiency 3.3V @ 3A
Step Down Regulator



Sheet: /5V-3.3V,3A_BuckConverter_SY8089/
File: 5V-3.3V,3A_BuckConverter_SY8089.kicad_sch

Title:

Size: A4

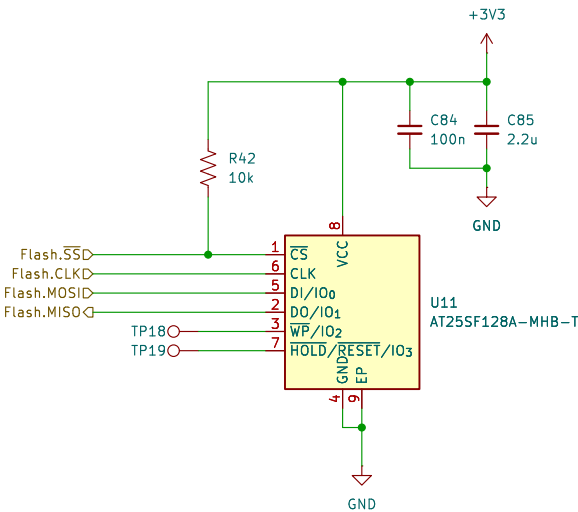
Date:

KiCad E.D.A. 9.0.1

Rev:

Id: 10/11

256M-BIT Serial Flash Memory



Sheet: /W25Q128JVE_FLASH.MEMORY/
File: W25Q128JVE_FLASH.MEMORY.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 9.0.1

Id: 11/11