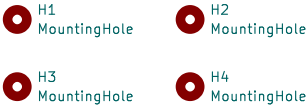
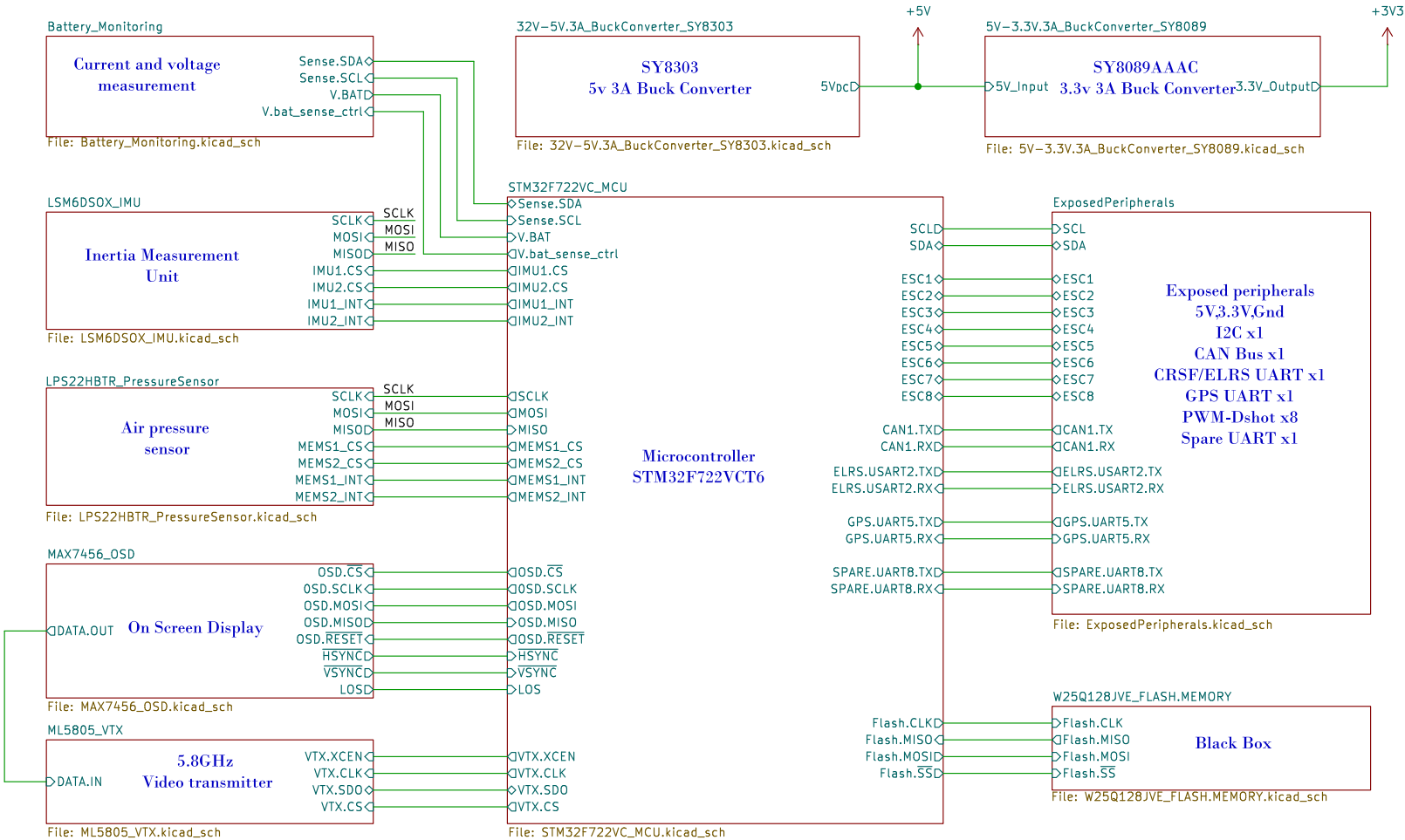
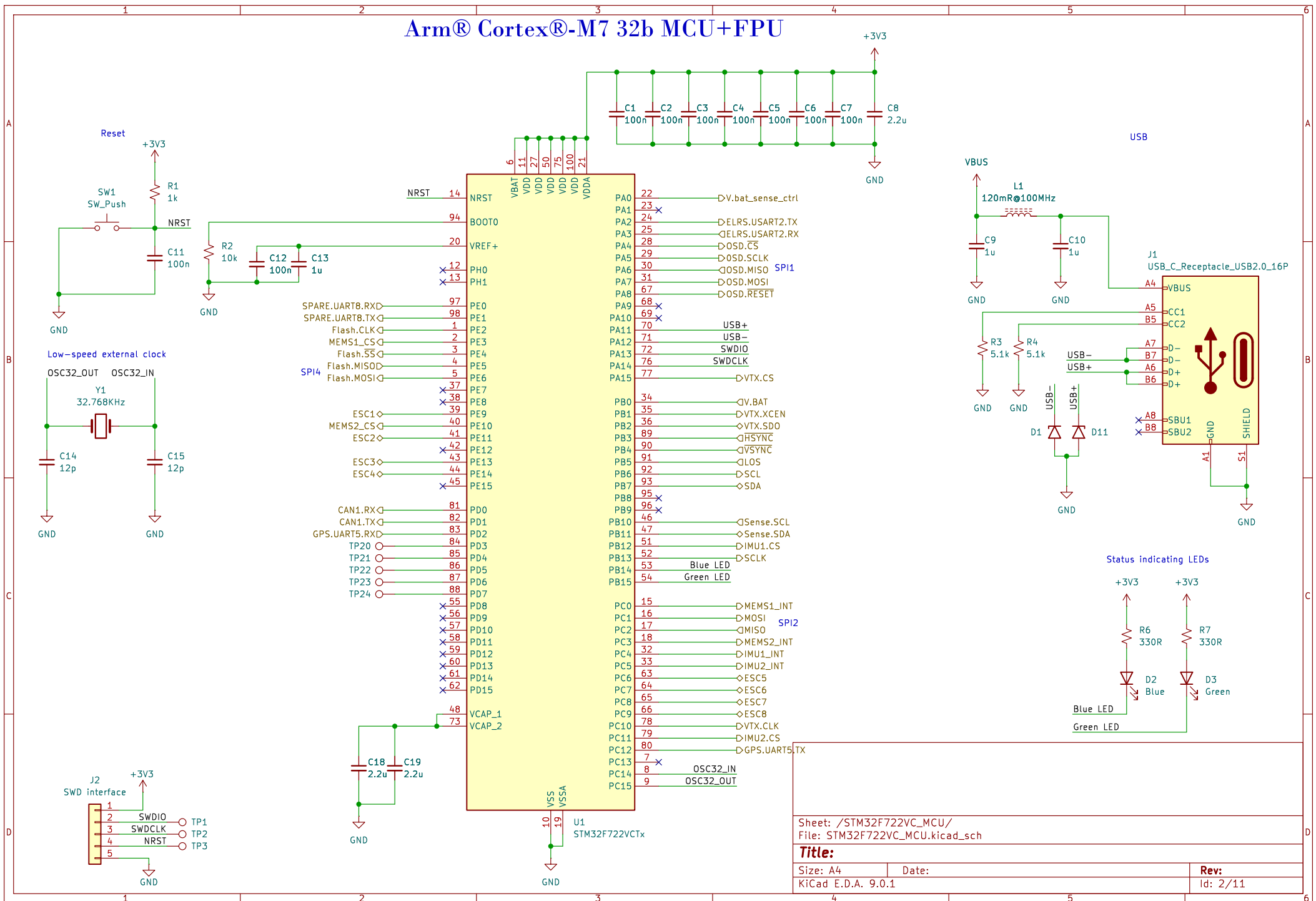


Flying FC



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



Single-Channel Monochrome On-Screen Display with Integrated EEPROM

The circuit schematic shows a MAX7456EUI+ IC (U2) connected to a camera (J3) and a 5V power supply. The IC has pins for RESET, CS, SDOUT, SDIN, SCLK, CLKOUT, VIN, PGND, DGND, AGND, EP, HSYNC, VSYNC, LOS, VOUT, SAG, CLKIN, XFB, and DATA.OUT. The camera is connected to VIN (pin 7) and GND. The 5V supply is connected to AVDD (pin 21), DVDD (pin 3), and PVDD (pin 24). The IC is also connected to a 27MHz oscillator (Y3) and a 4.7uF capacitor (C25). The output is connected to HSYNC, VSYNC, LOS, and DATA.OUT. The circuit includes several capacitors (C20, C21, C22, C23, C24, C25, C26) and resistors (R8, R9, R10, R11, R12, R13).

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

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

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

The schematic diagram illustrates the internal connections of the ML5805DM transceiver. Key components and connections include:

- Power Supply:** +3V3 and GND rails with decoupling capacitors (C27, C28, C29, C86, C34, C35, C40, C41, C42, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C39, C43, C44, C57, C58, C37, C46, C38, C45).
- Control and Data Pins:** XCEN, RXON, DIN, EN, DATA, CLK, FREQ, RXIP, RXIN, ISET, VTUNE, QPO, PLL_SW, VCCPLL, VREGRX, VREGTX, VREGLNA, VSSD, VCCPA, VREGPA, VBG_PA, VBG_1P8, VBG_1P8, VREGVCO, VREGPLL, VCCSYN, VBG_VCO, VREGIF, VBG_RF, SW_CTRL_P, SW_CTRL_N, DATASEL, AOUT, RSSI, TPI, TPQ, RSSI.
- Antenna and Matching Network:** LFB215G37SG8A180 antenna (X1) connected to TXO, with matching components C31, C32, L2, L3, and C33.
- Resistors:** R14, R15, R16, R17, R18, R19, R20, R21.
- Test Points:** TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12.

**Sheet: /ML5805_VTX/
File: ML5805_VTX.kicad_sch**

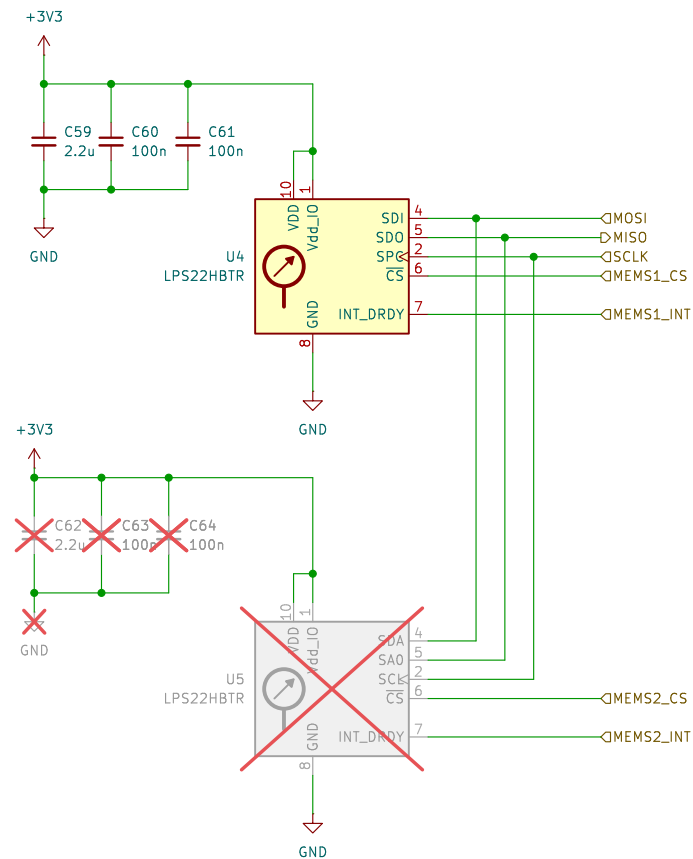
Title:

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

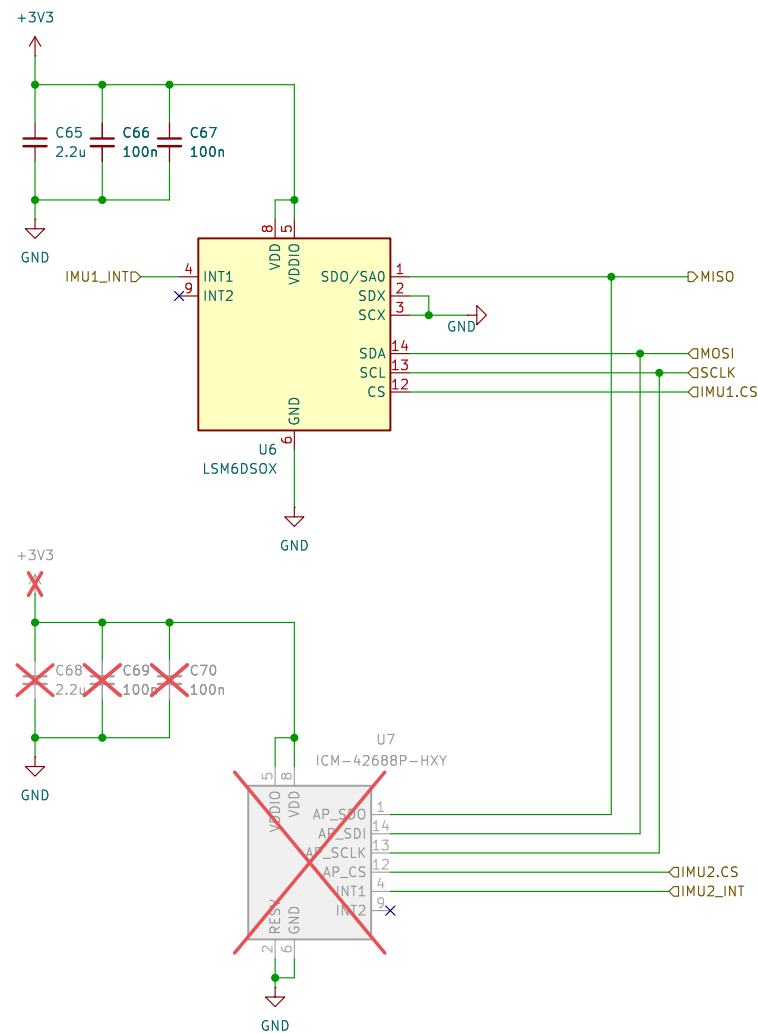
Date:

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

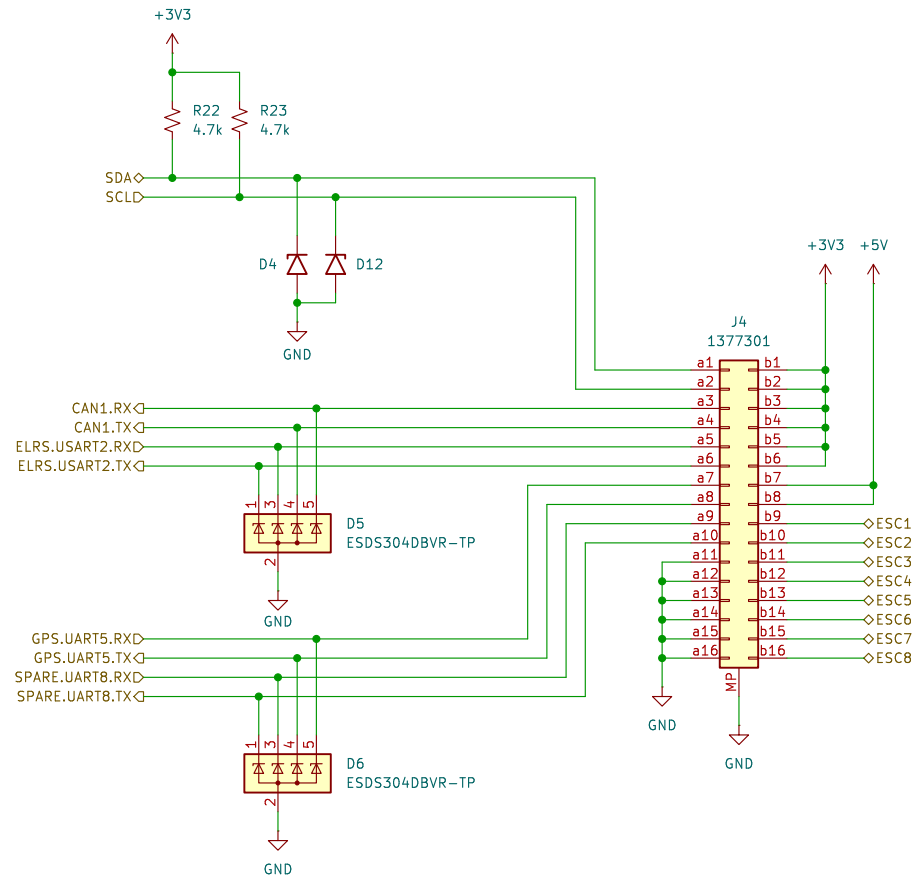
Date:

KiCad E.D.A. 9.0.1

Rev:

Id: 6/11

Exposed peripherals



Sheet: /ExposedPeripherals/
File: ExposedPeripherals.kicad_sch

Title:

Size: A4

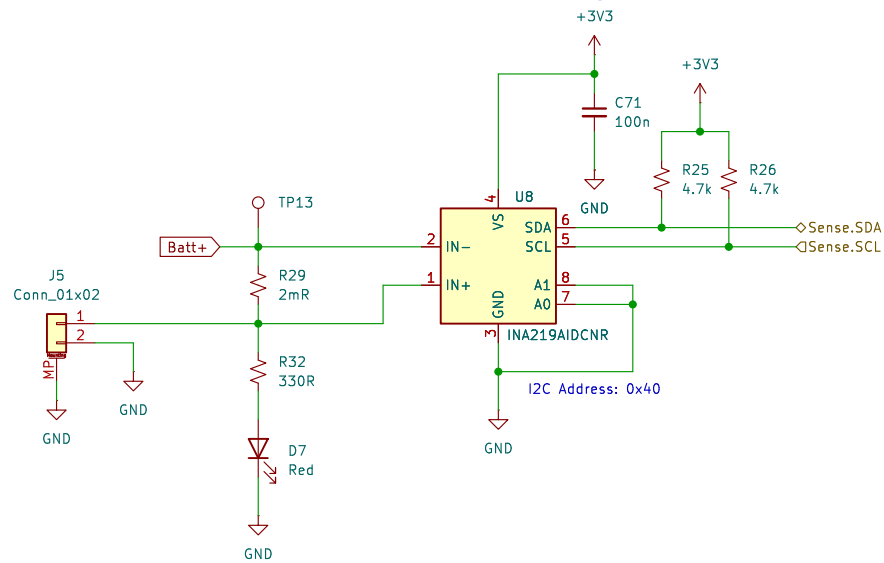
Date:

KiCad E.D.A. 9.0.1

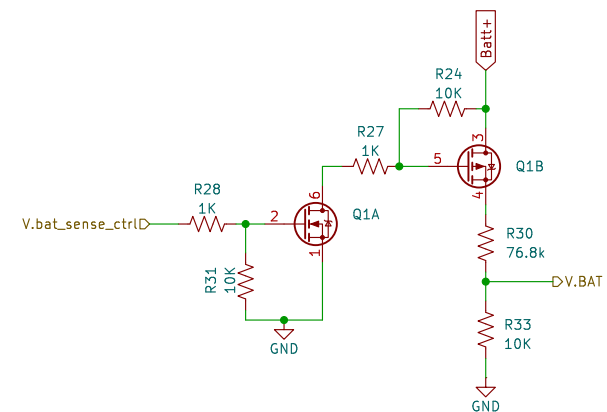
Rev:

Id: 7/11

Current sensing



Battery voltage monitoring



Sheet: /Battery_Monitoring/
File: Battery_Monitoring.kicad_sch

Title:

Size: A4

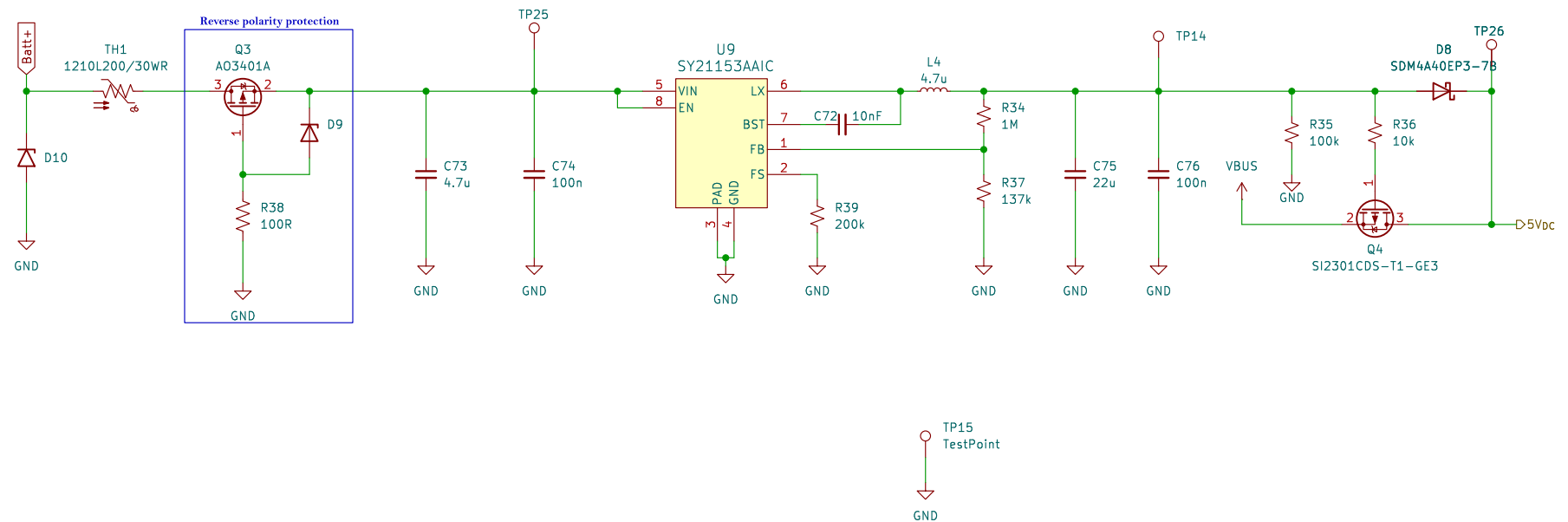
Date:

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:

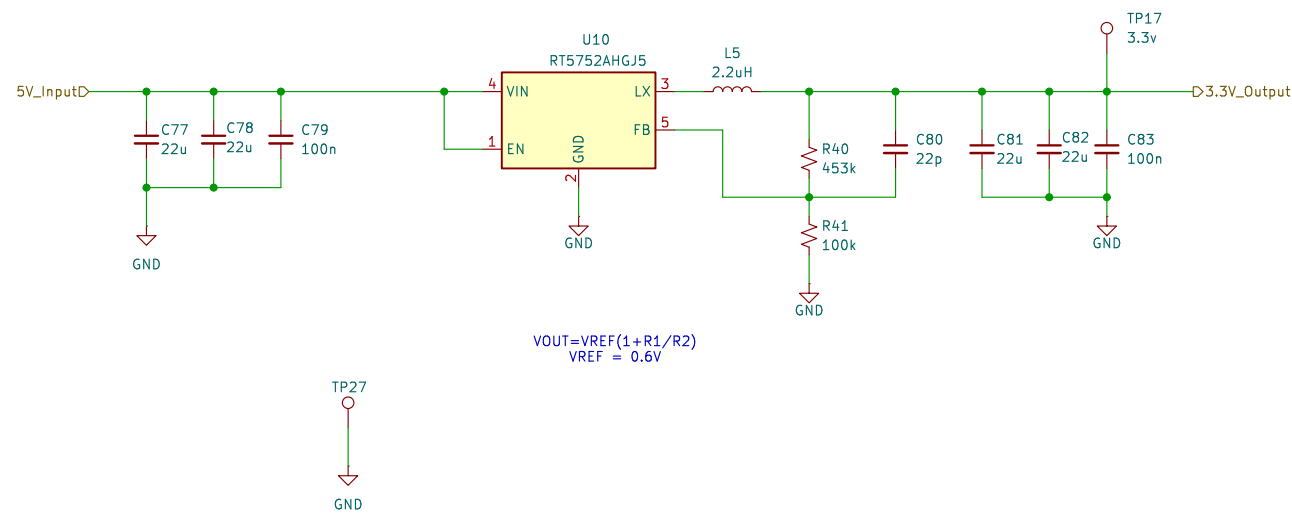
Size: A4	Date:
----------	-------

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

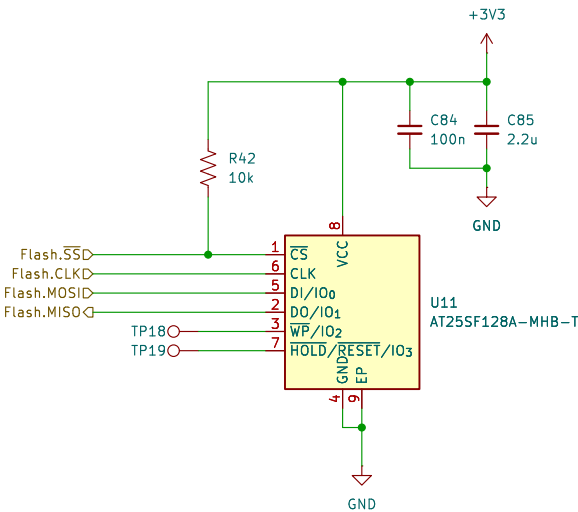
Date:

Rev:

KiCad E.D.A. 9.0.1

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