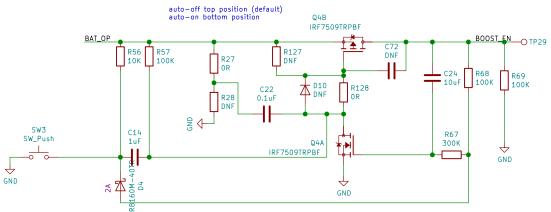
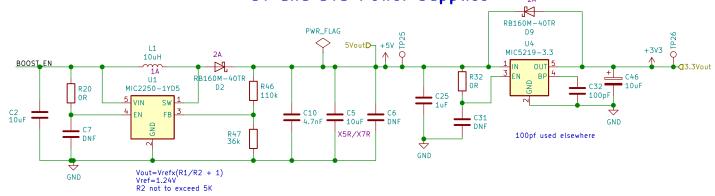


Latched powerbutton Circuit

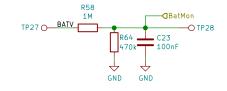


5V and 3V3 Power Supplies



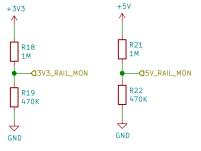
The diode must be rated for the peak inductor current, and its reverse voltage rating must be greater than the output voltage.

Battery Voltage Monitor



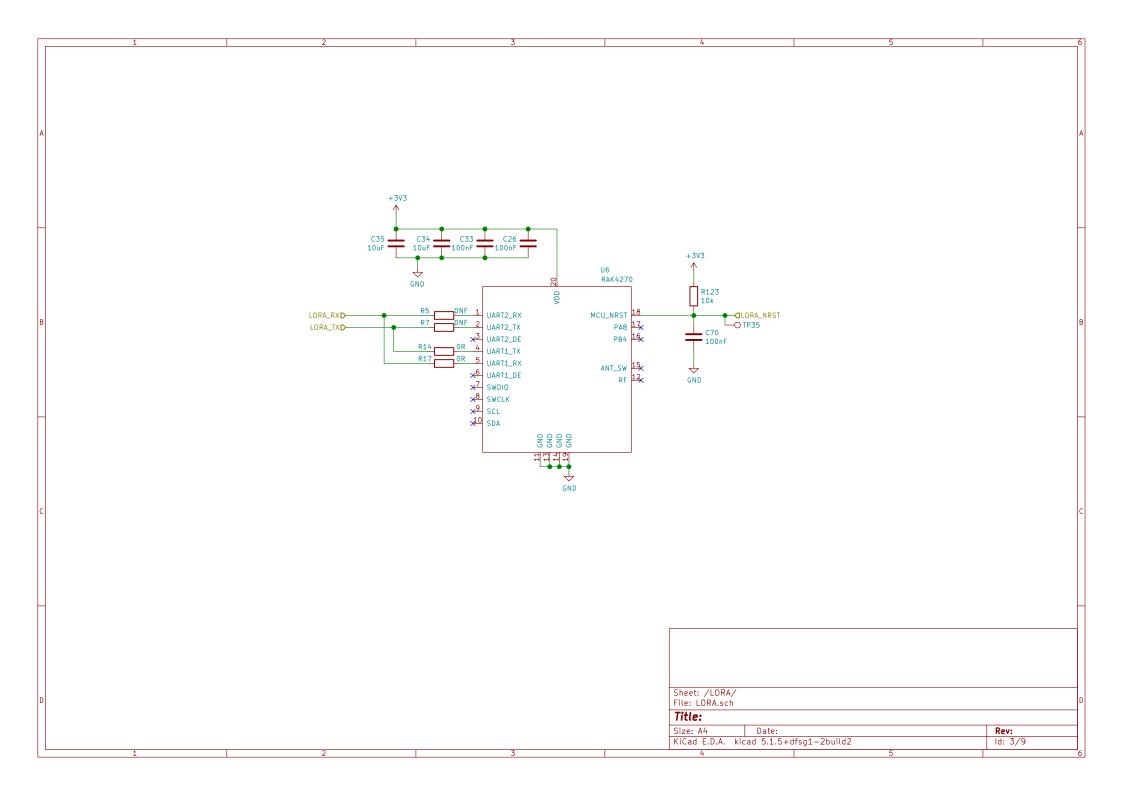
divider ratio=47/147=31.97 5/1024=1adc=4.88mm (4.2/4.88m)*0.3197=275.15adc=fully charged and above

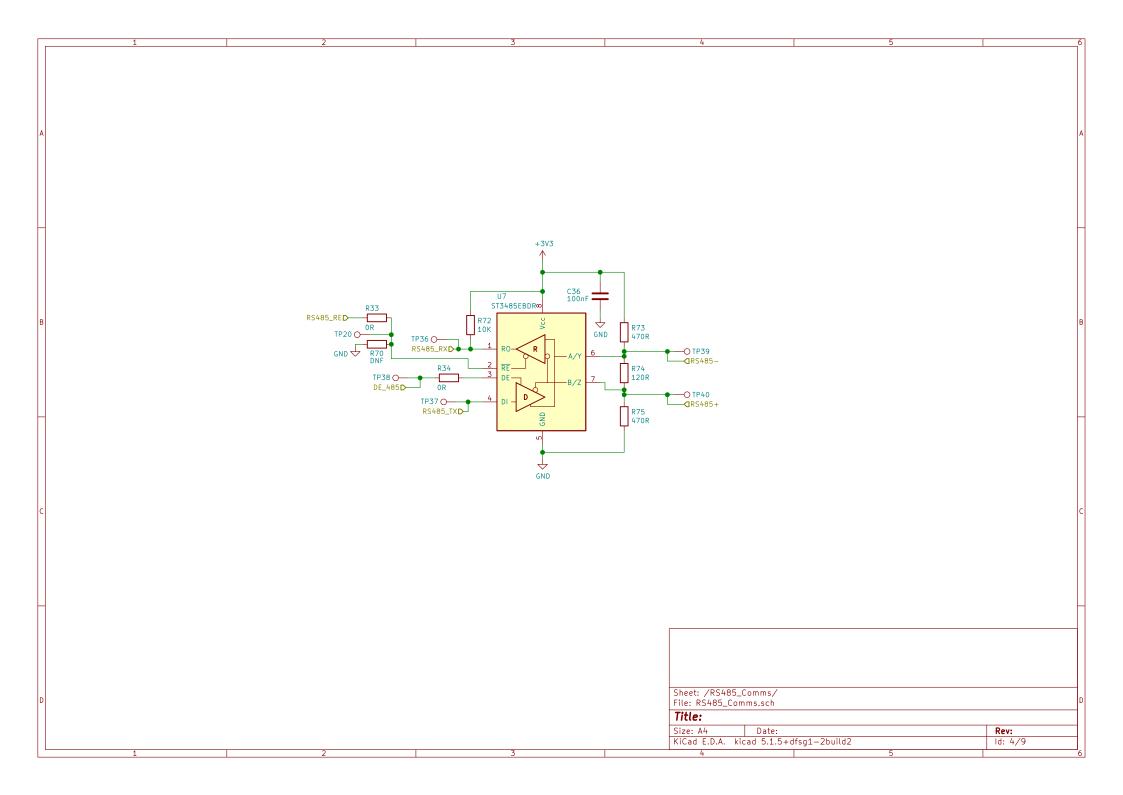
Voltage Rail Monitor

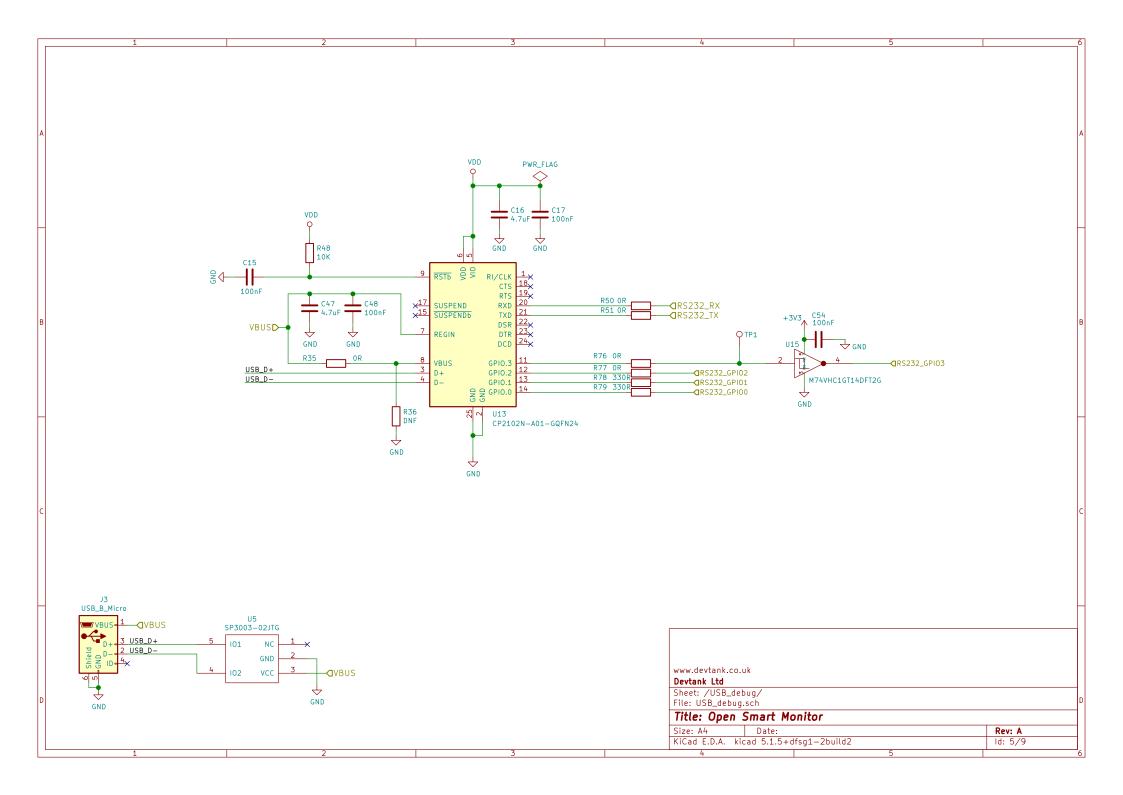


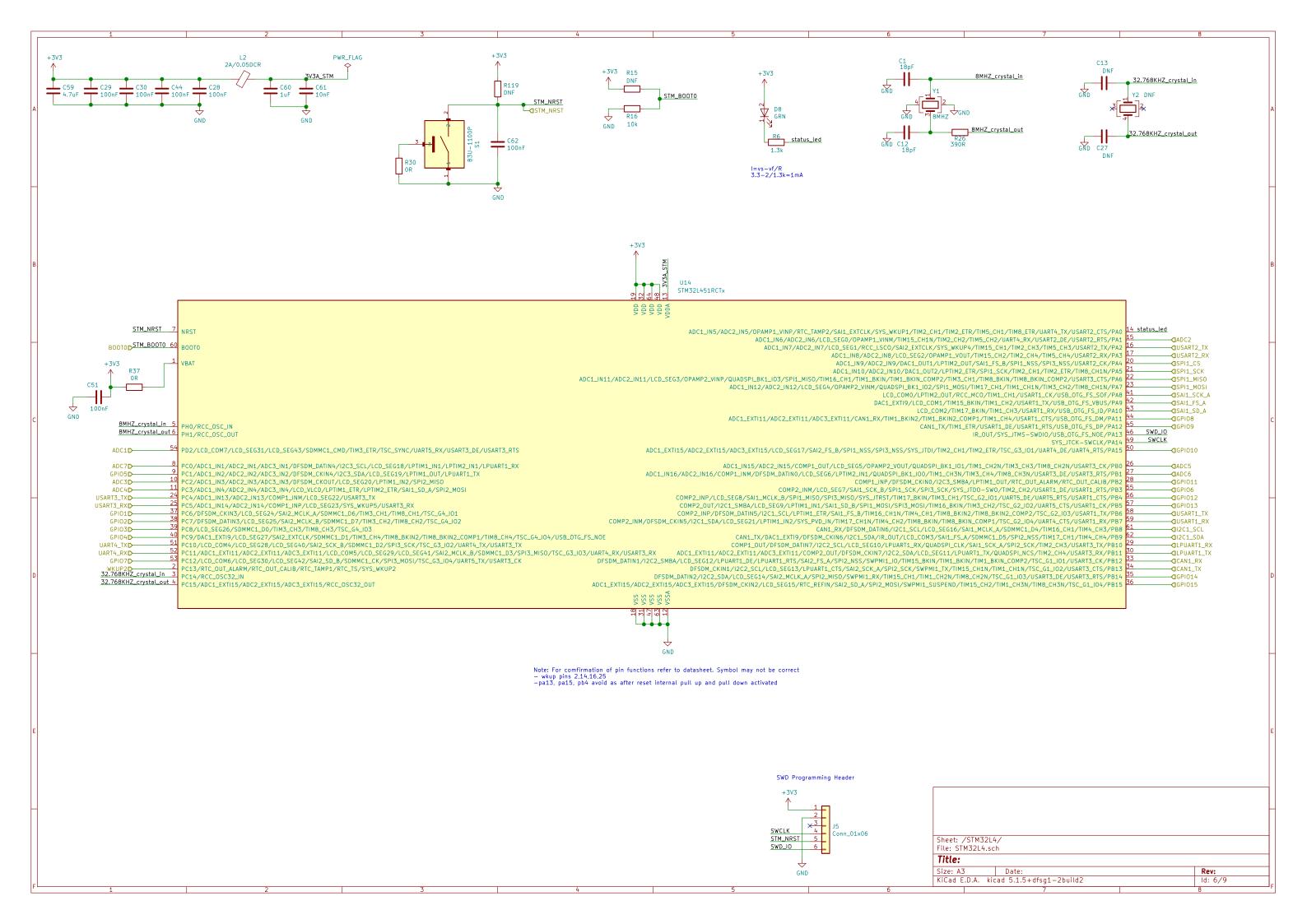
Sheet: /PowerSupply/
File: PowerSupply.sch

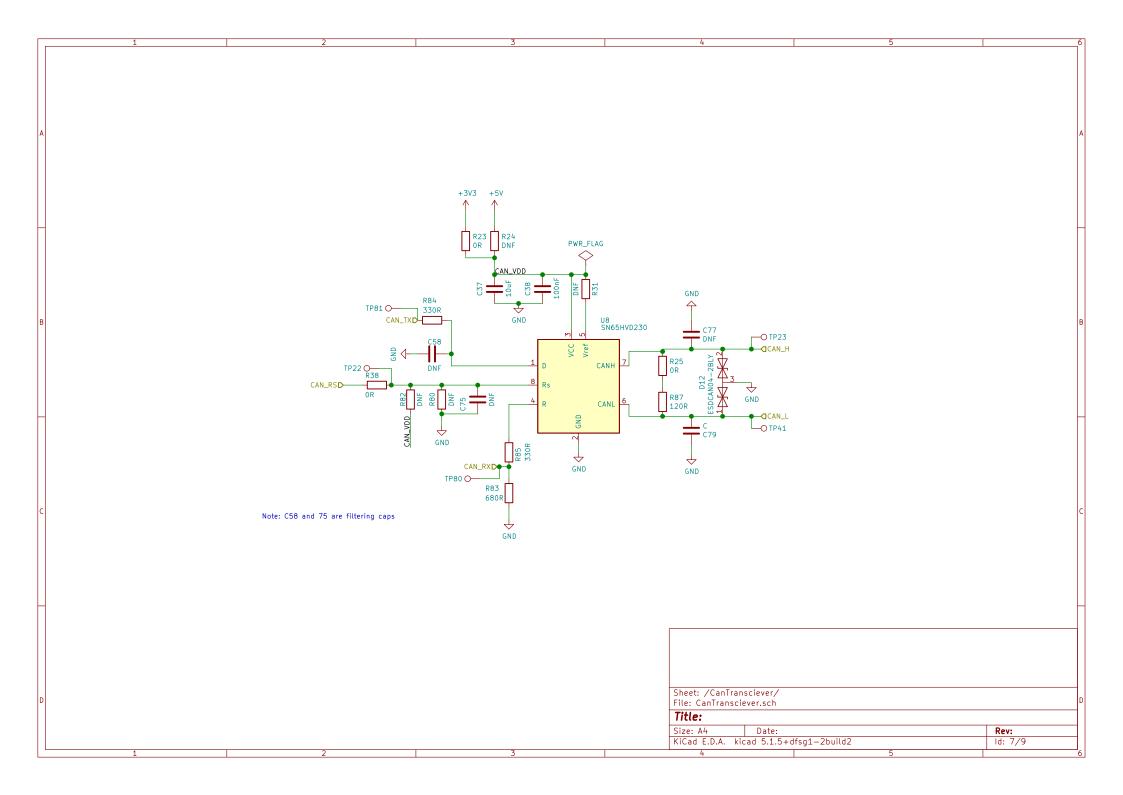
Title:
Size: A3 Date: Rev:
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2 Id: 2/9

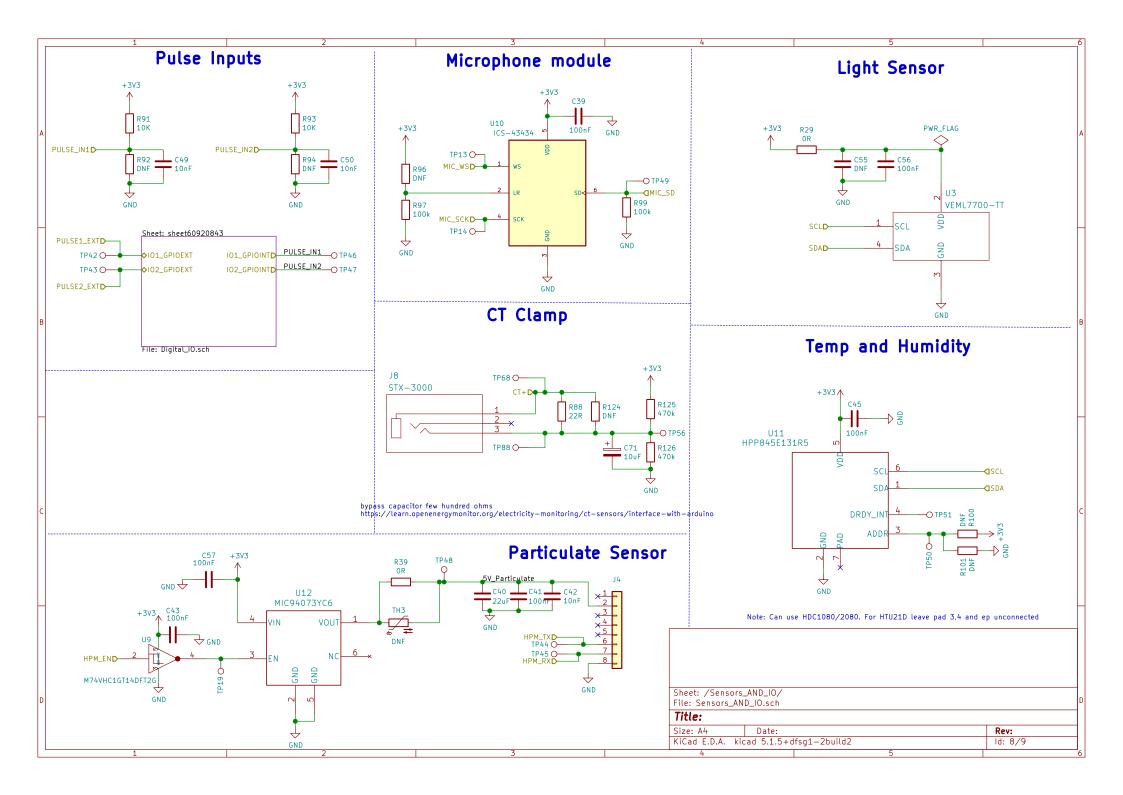












3V3 BI-DIRECTIONAL IO (5V TOLERANT) Max 3mA per GPIO +3V3 R104 1K →DIO1_GPIOINT IO2_GPIOEXT**◇** —**D**IO2_GPIOINT www.devtank.co.uk Devtank Ltd Sheet: /Sensors_AND_IO/sheet60920843/ File: Digital_IO.sch Title: Open Smart Monitor Size: A3 Date: KiCad E.D.A. kicad 5.1.5+dfsg1-2build2