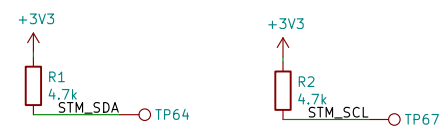


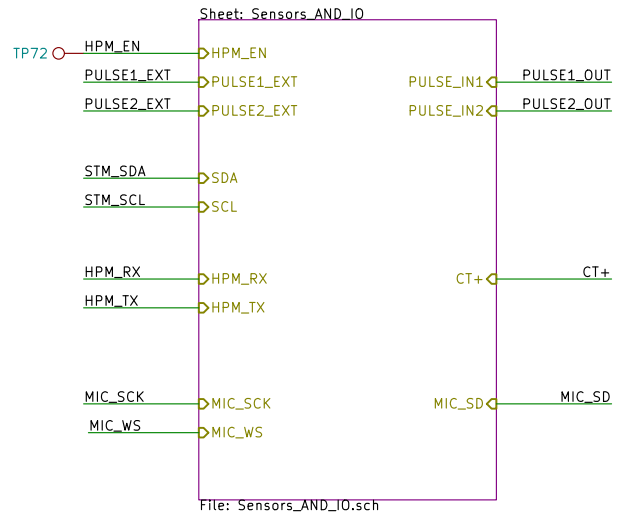
STM



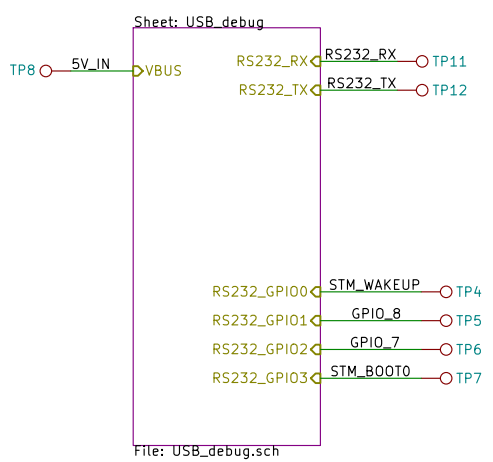
STM I2C Pullup



Sensors and IO

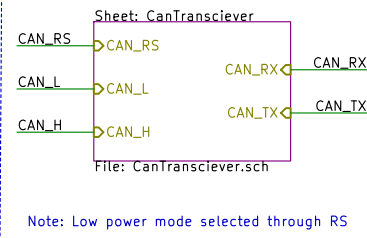


USB Debug

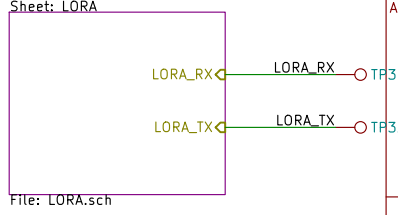


Communication

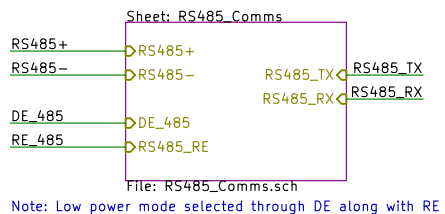
CAN Transciever



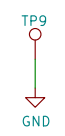
LORA



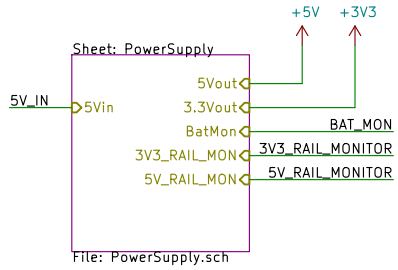
RS485 Transciever



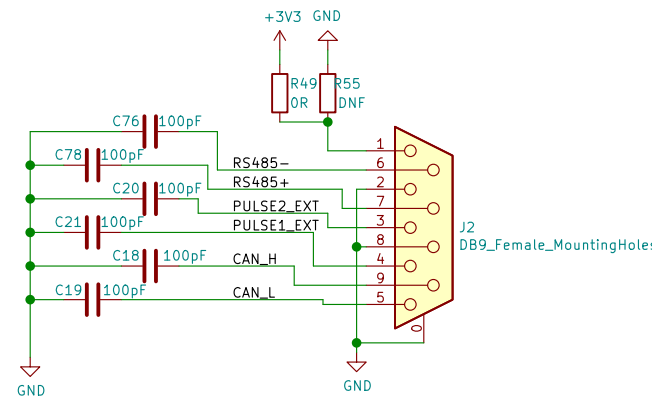
Easy access gnd pins for debug



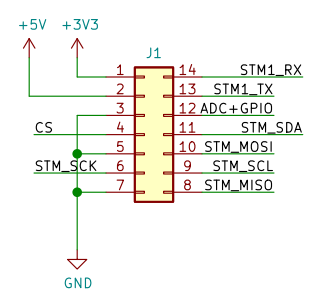
Power Supply and Battery



External Connector



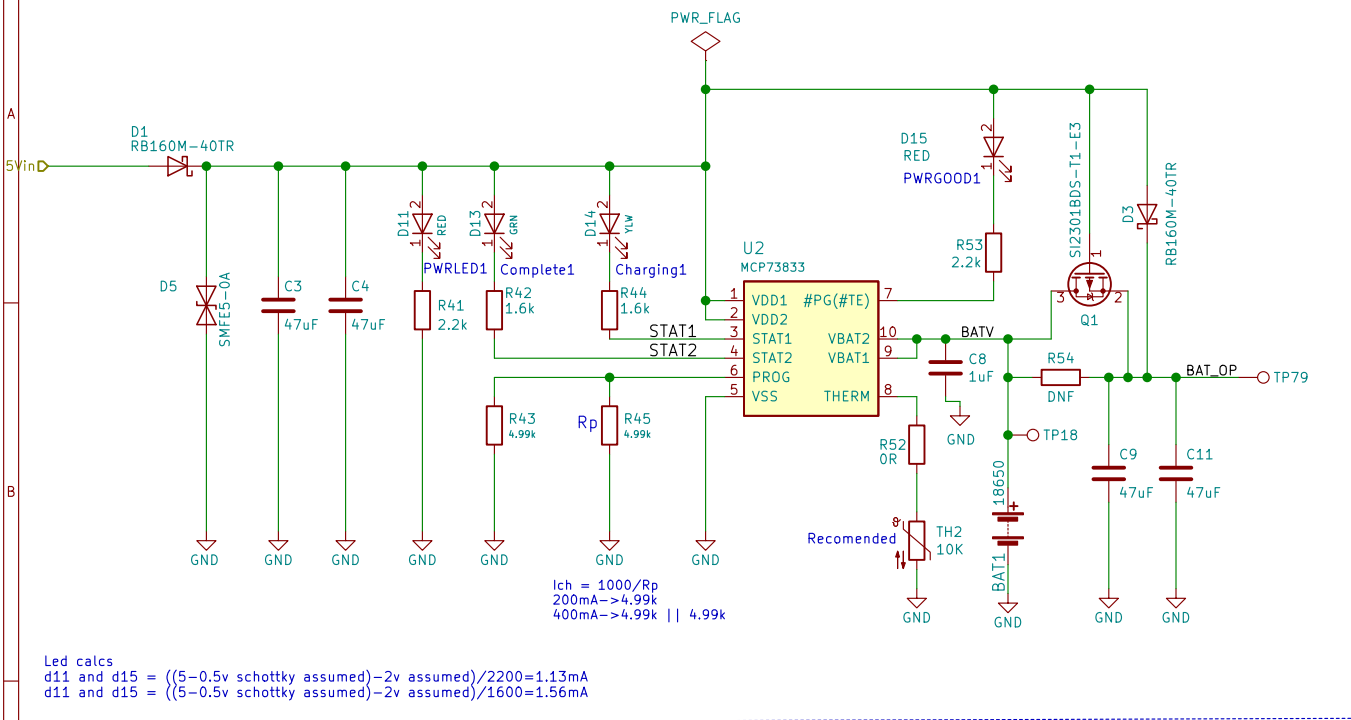
Optional module



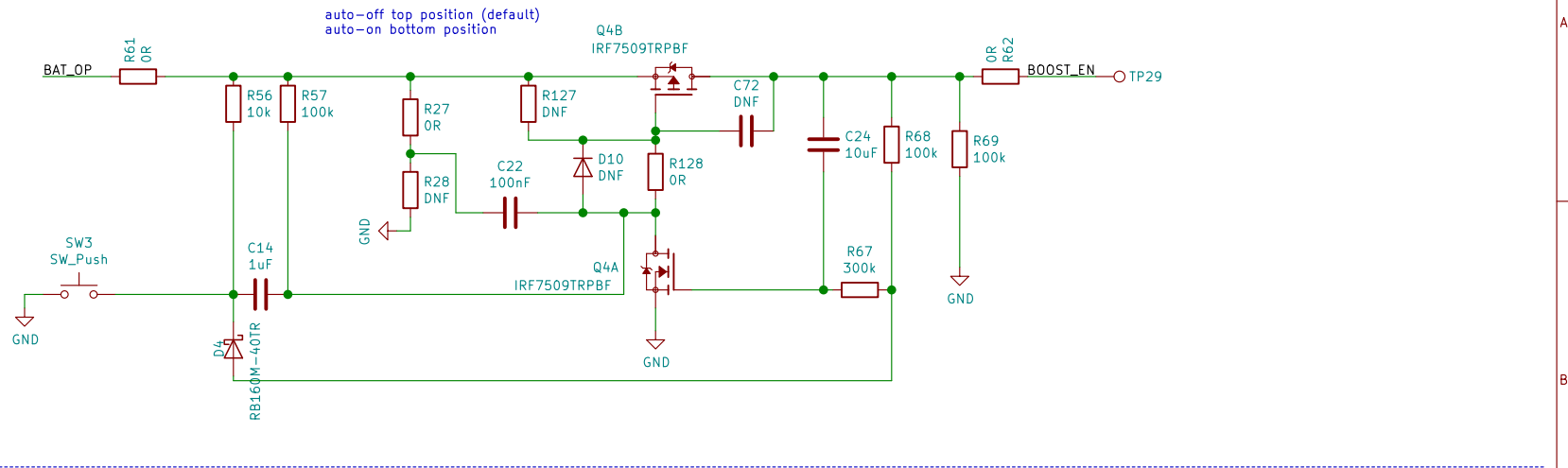
Fiducials



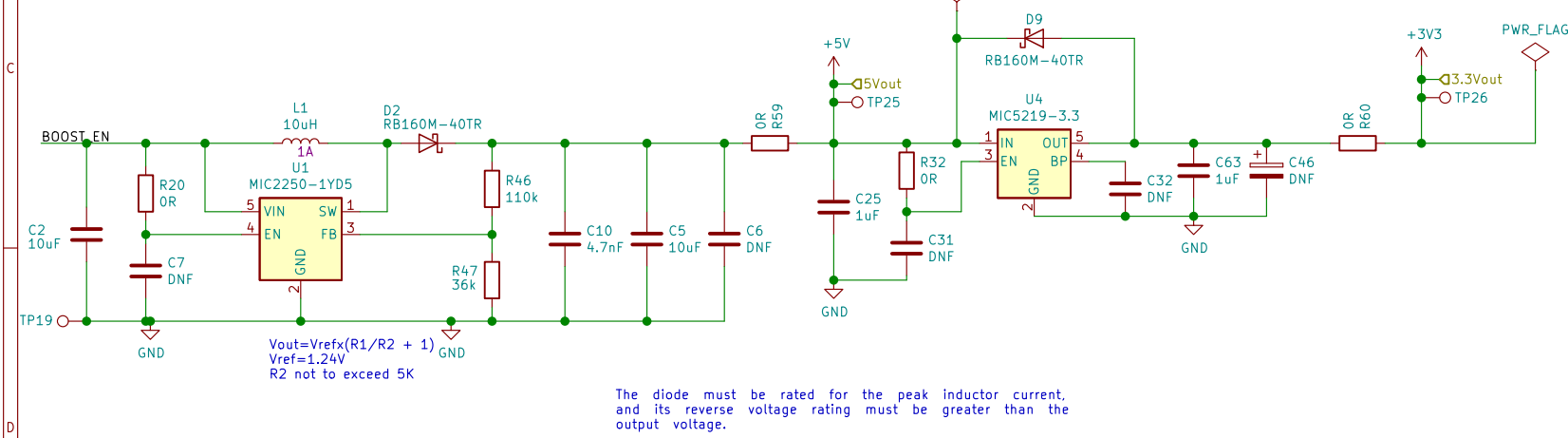
Li_Ion Battery Charge Controller



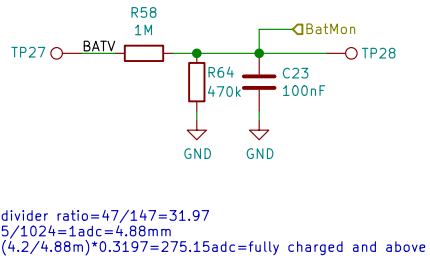
Latched powerbutton Circuit



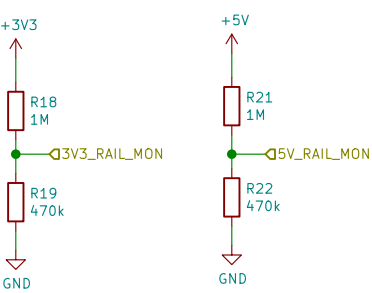
5V and 3V3 Power Supplies

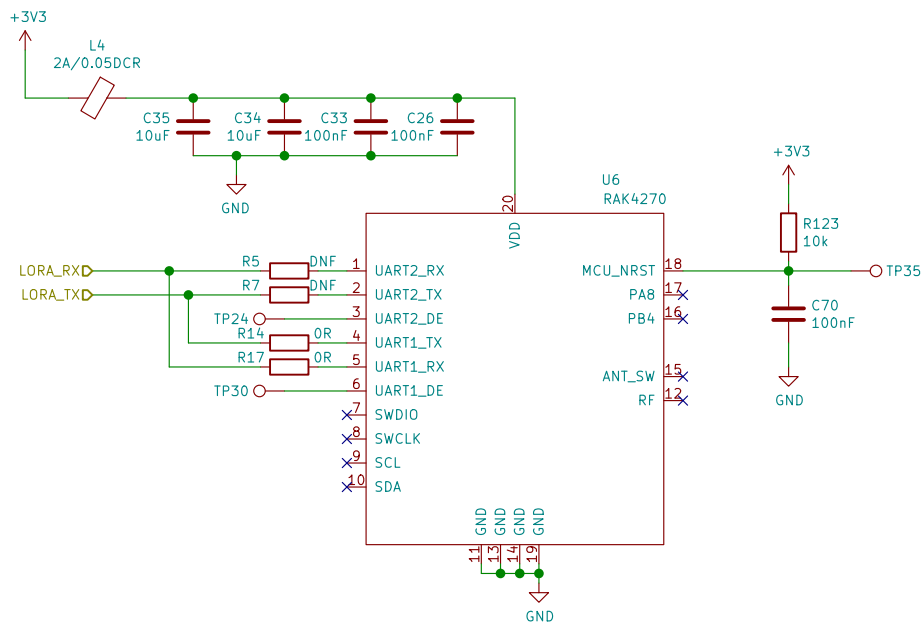


Battery Voltage Monitor



Voltage Rail Monitor





Part No: 304-010

Devtank LTD

Sheet: /LORA/

File: LORA.sch

Title: Open Smart Monitor

Size: A4

Date: 2021-09-29

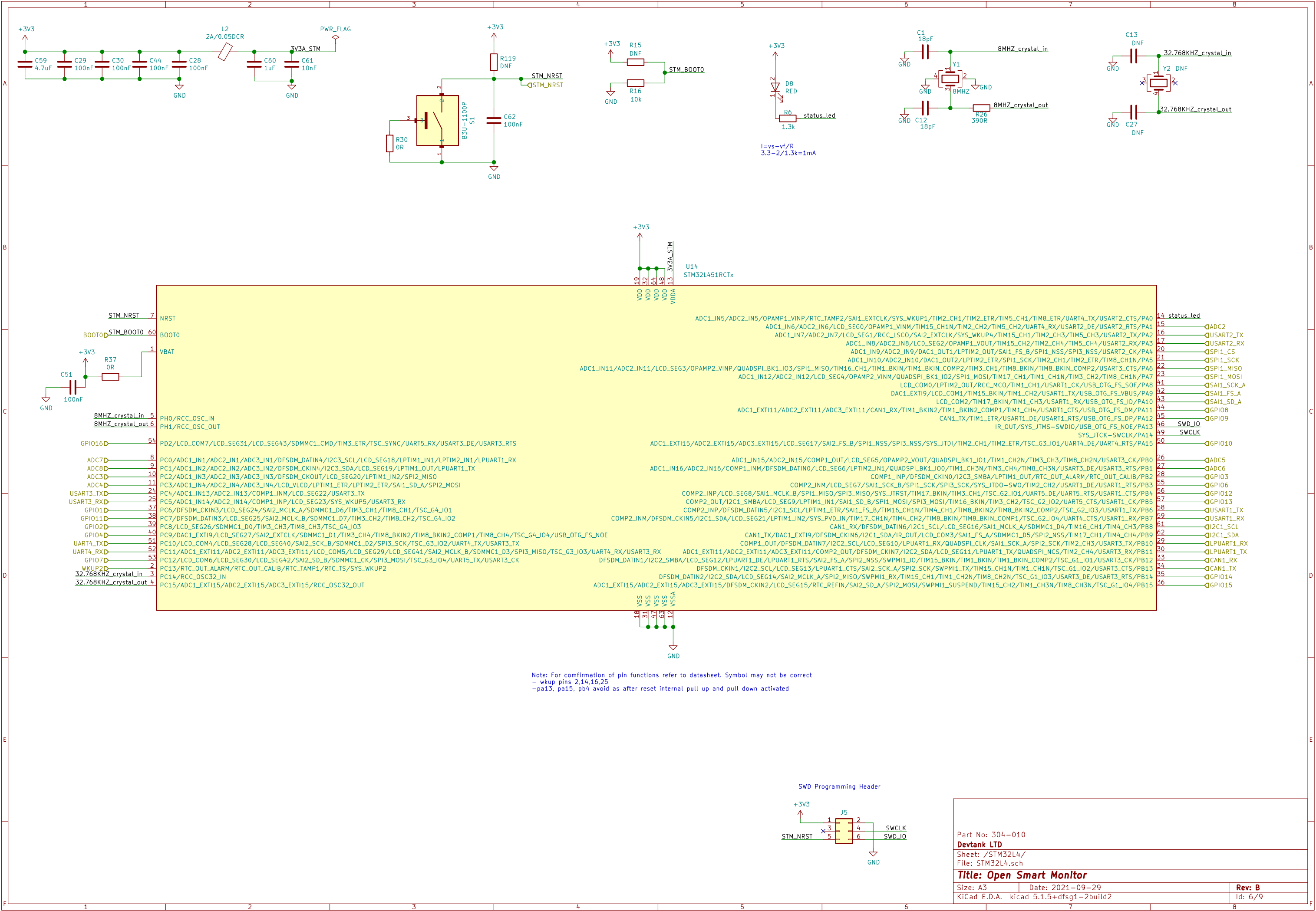
Rev: B

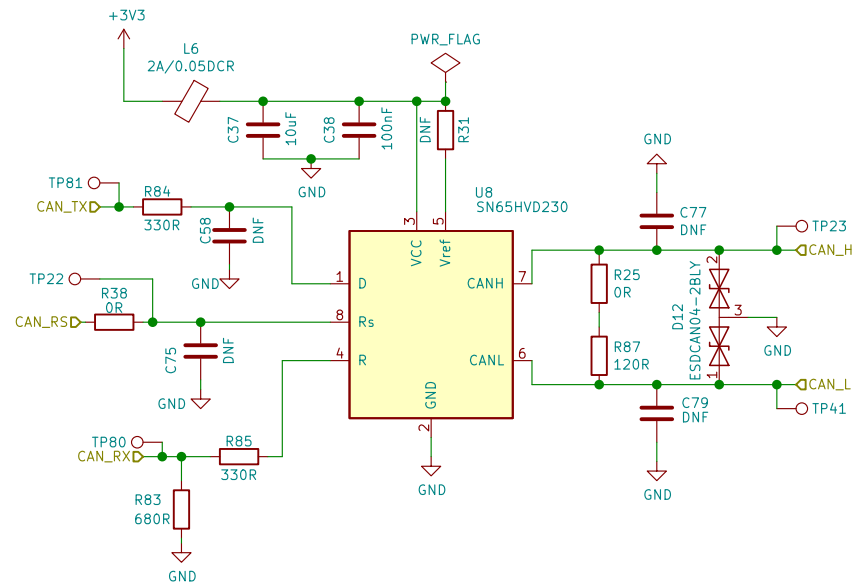
KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Id: 3/9

Id: 4/9







Note: C58 and 75 are filtering caps

Part No: 304-010

Devtank LTD

Sheet: /CanTransciever/

File: CanTransciever.sch

Title: Open Smart Monitor

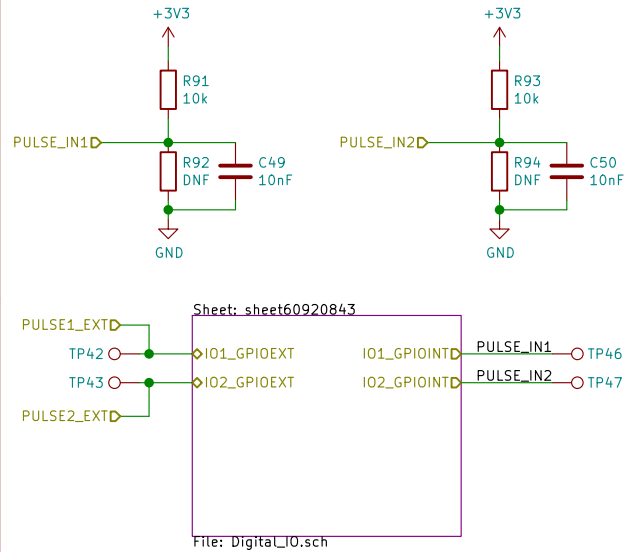
Size: A4 Date: 2021-09-29

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

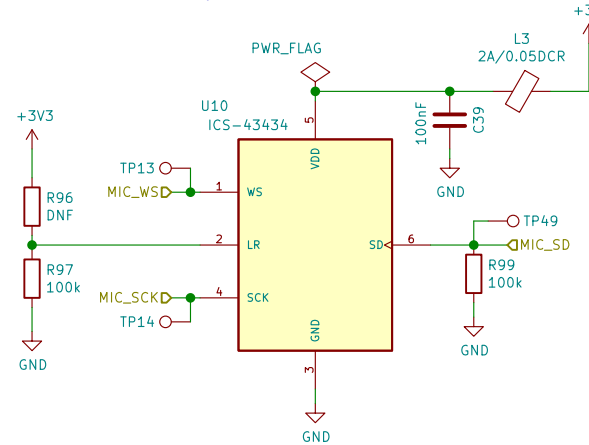
Rev: B

Id: 7/9

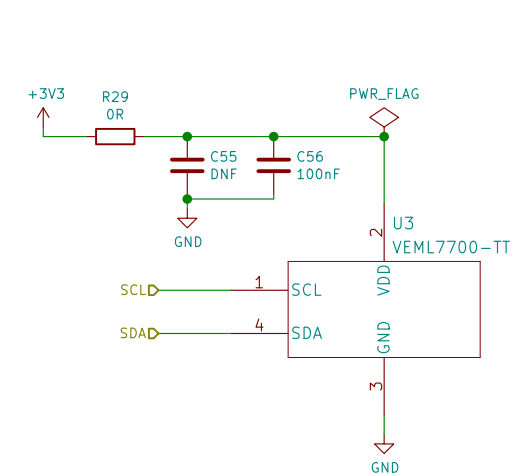
Pulse Inputs



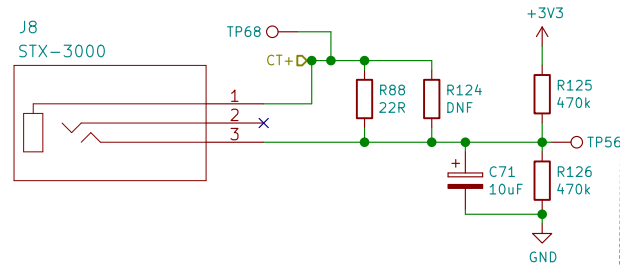
Microphone module



Light Sensor

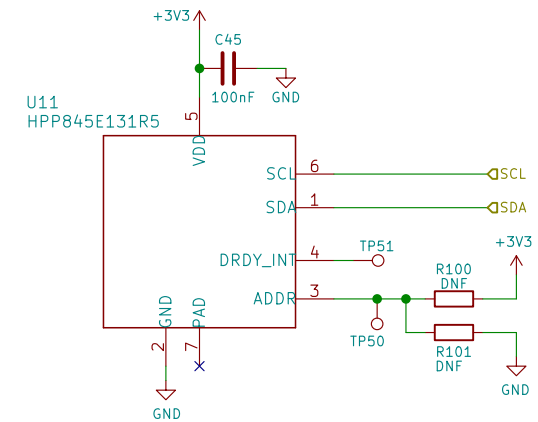


CT Clamp



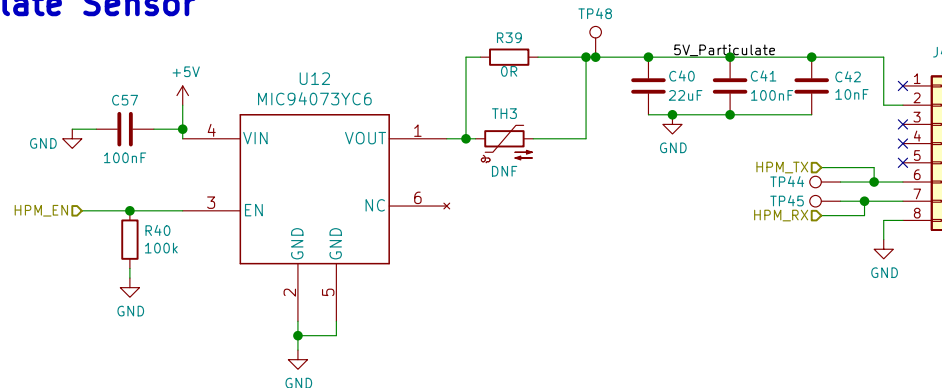
bypass capacitor few hundred ohms
<https://learn.openenergymonitor.org/electricity-monitoring/ct-sensors/interface-with-arduino>

Temp and Humidity



Note: Can use HDC1080/2080. For HTU21D leave pad 3,4. For all devices leave ep pin 7 unconnect

Particulate Sensor



Part No: 304-010

Devtank LTD

Sheet: /Sensors_AND_IO/

File: Sensors_AND_IO.sch

Title: Open Smart Monitor

Size: A4 Date: 2021-09-29

KiCad E.D.A. kicad 5.1.5+dfsg1-2build2

Rev: B

Id: 8/9

Max 3mA per GPIO

