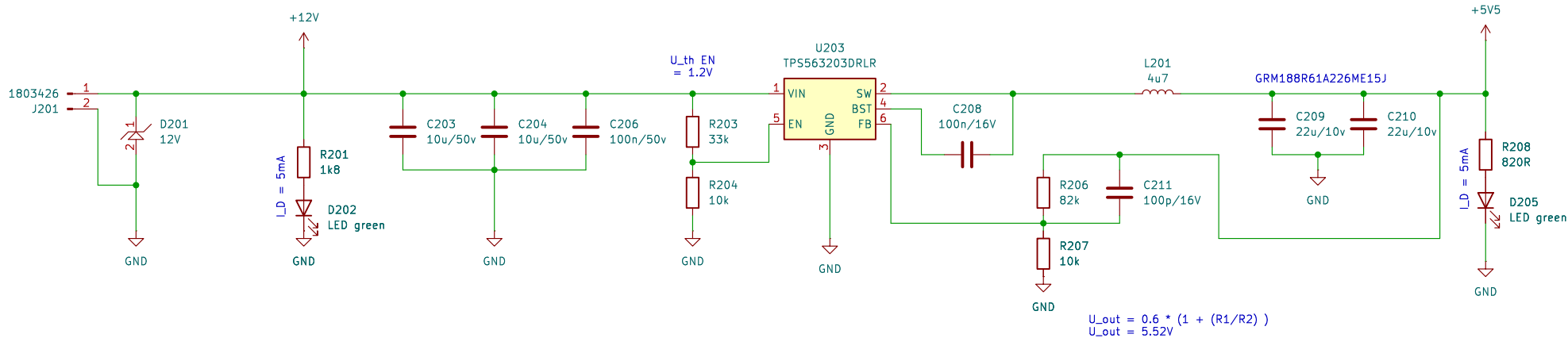
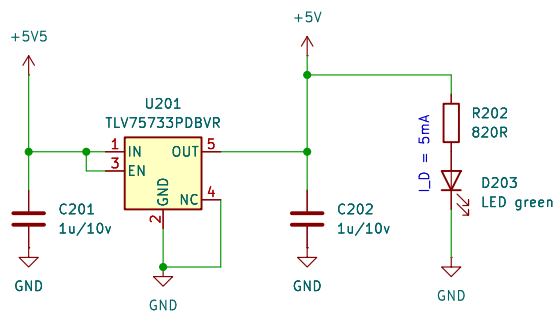


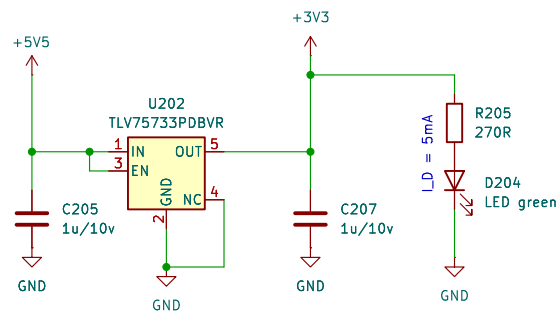
Step Down 12V -> 5V5



LDO 5V5 -> 5V



LDO 5V5 -> 3V3



PREN Team 10

Sheet: /Power_Supply/
File: Power_Supply.kicad_sch

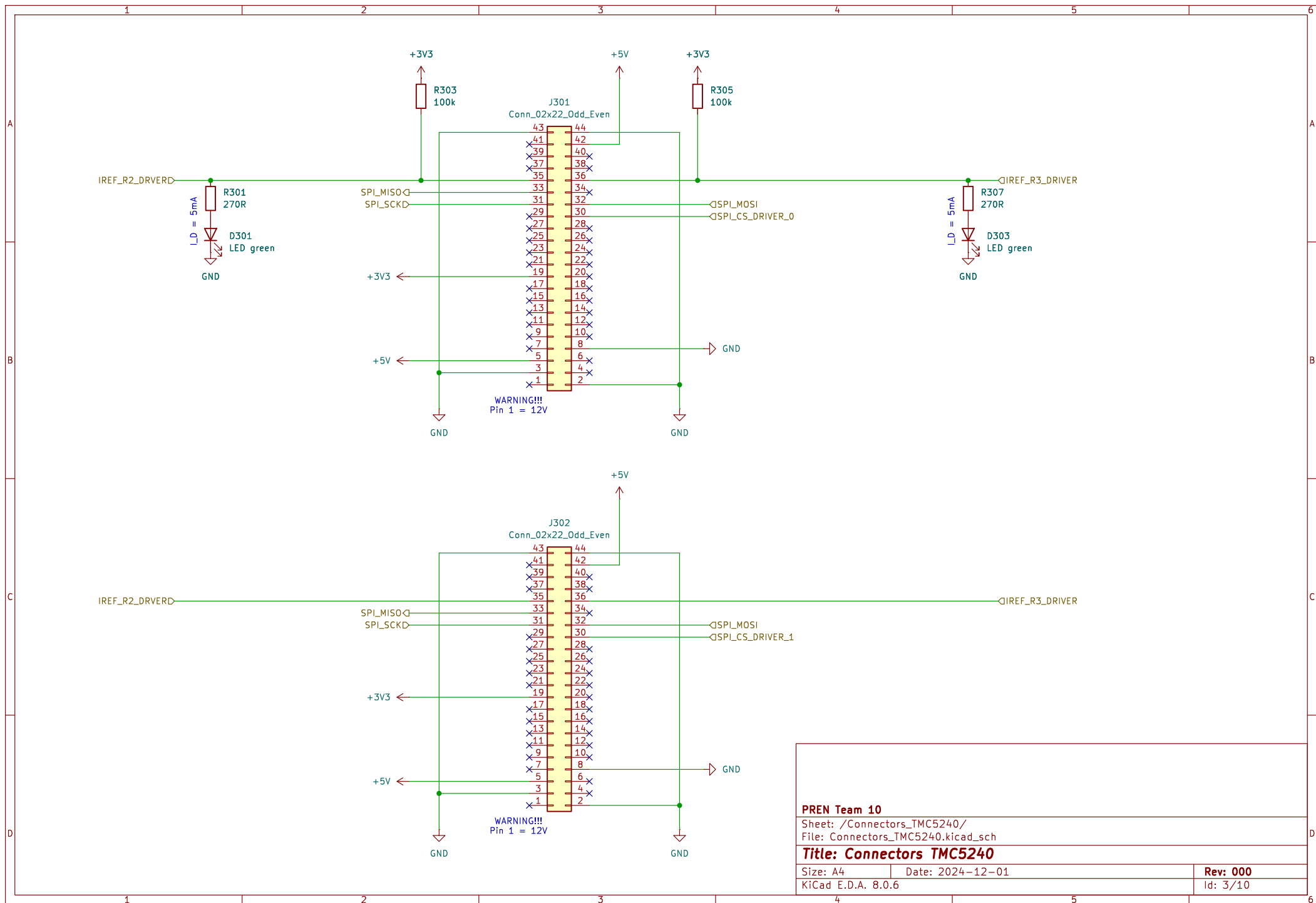
Title: Power Supply

Size: A4 Date: 2024-12-01

KiCad E.D.A. 8.0.6

Rev: 000

Id: 2/10



PREN Team 10

Sheet: /Connectors_TMC5240/

File: Connectors_TMC5240.kicad_sch

Title: Connectors TMC5240

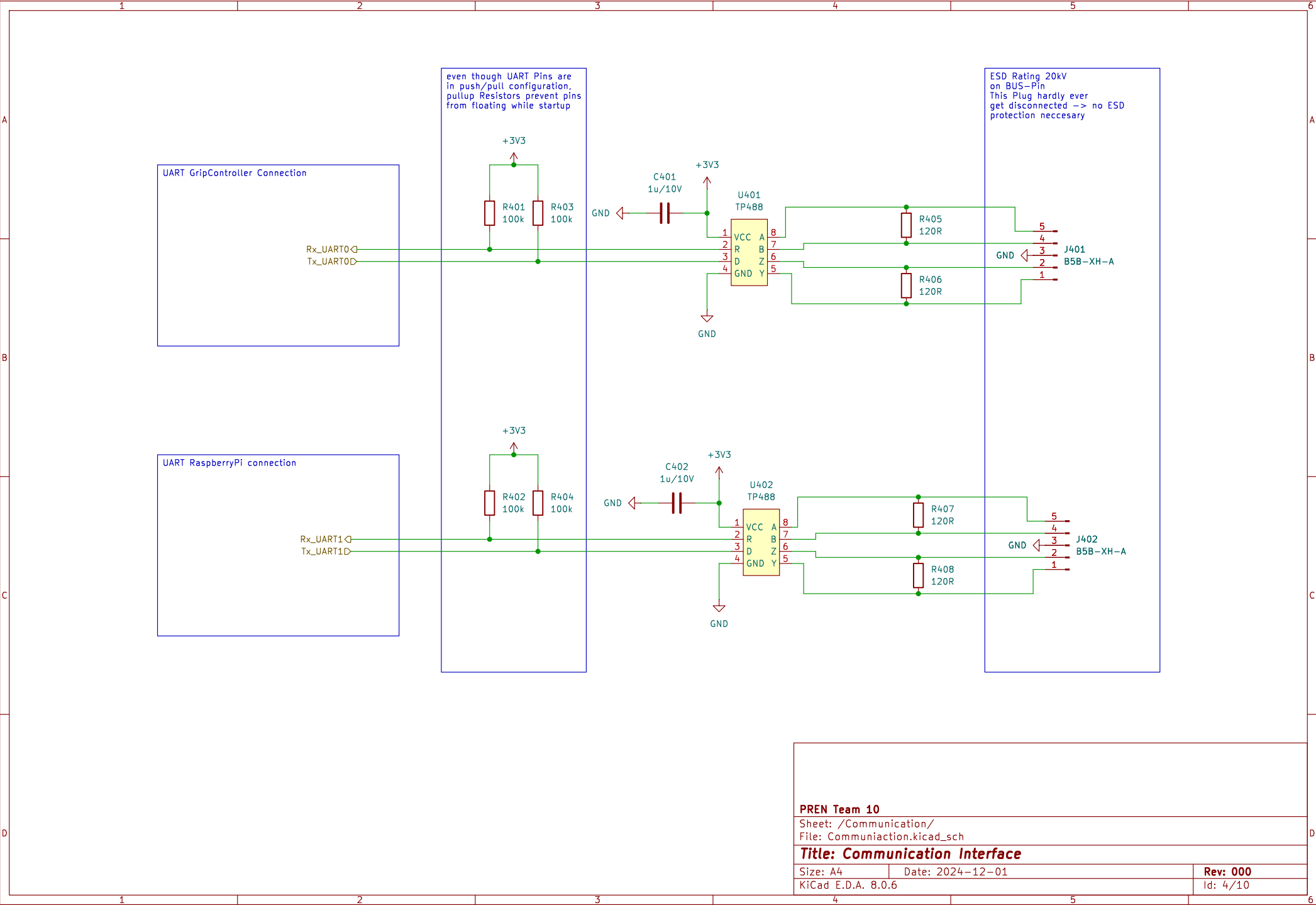
Size: A4

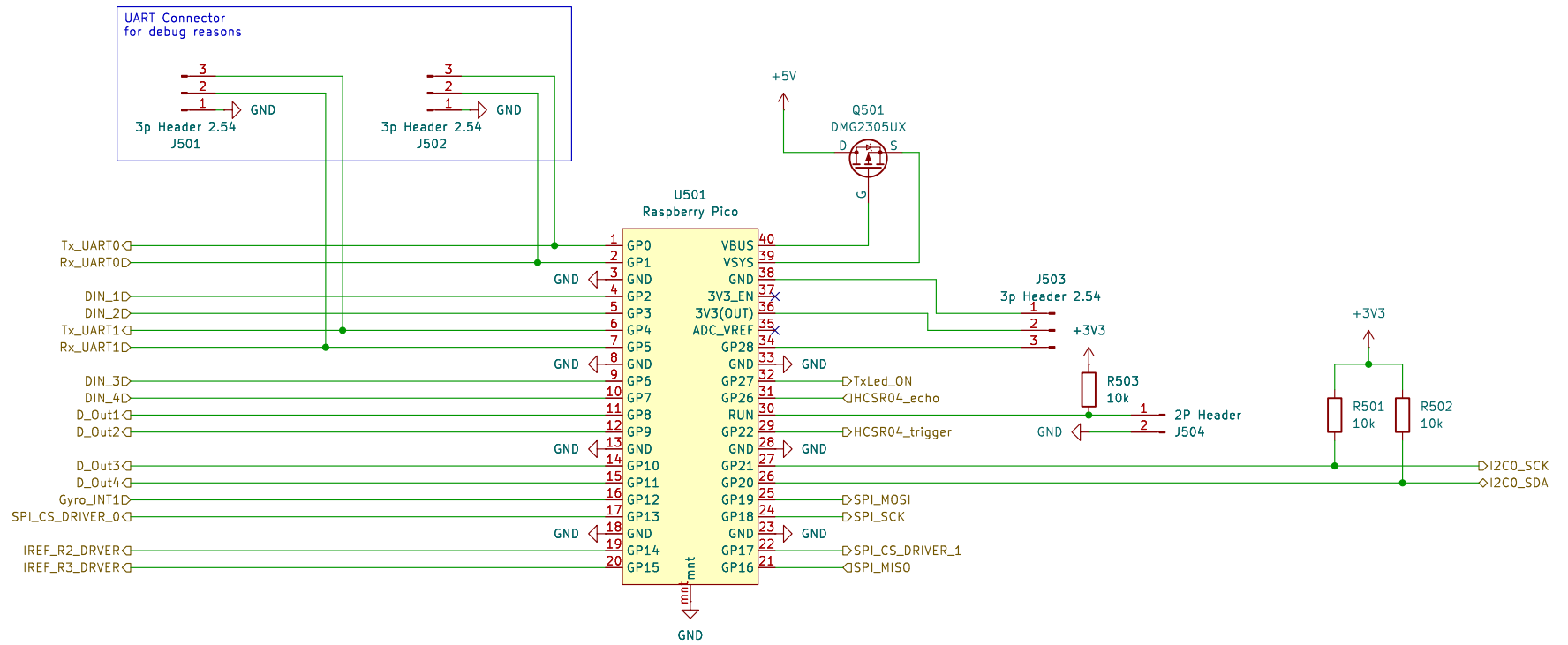
Date: 2024-12-01

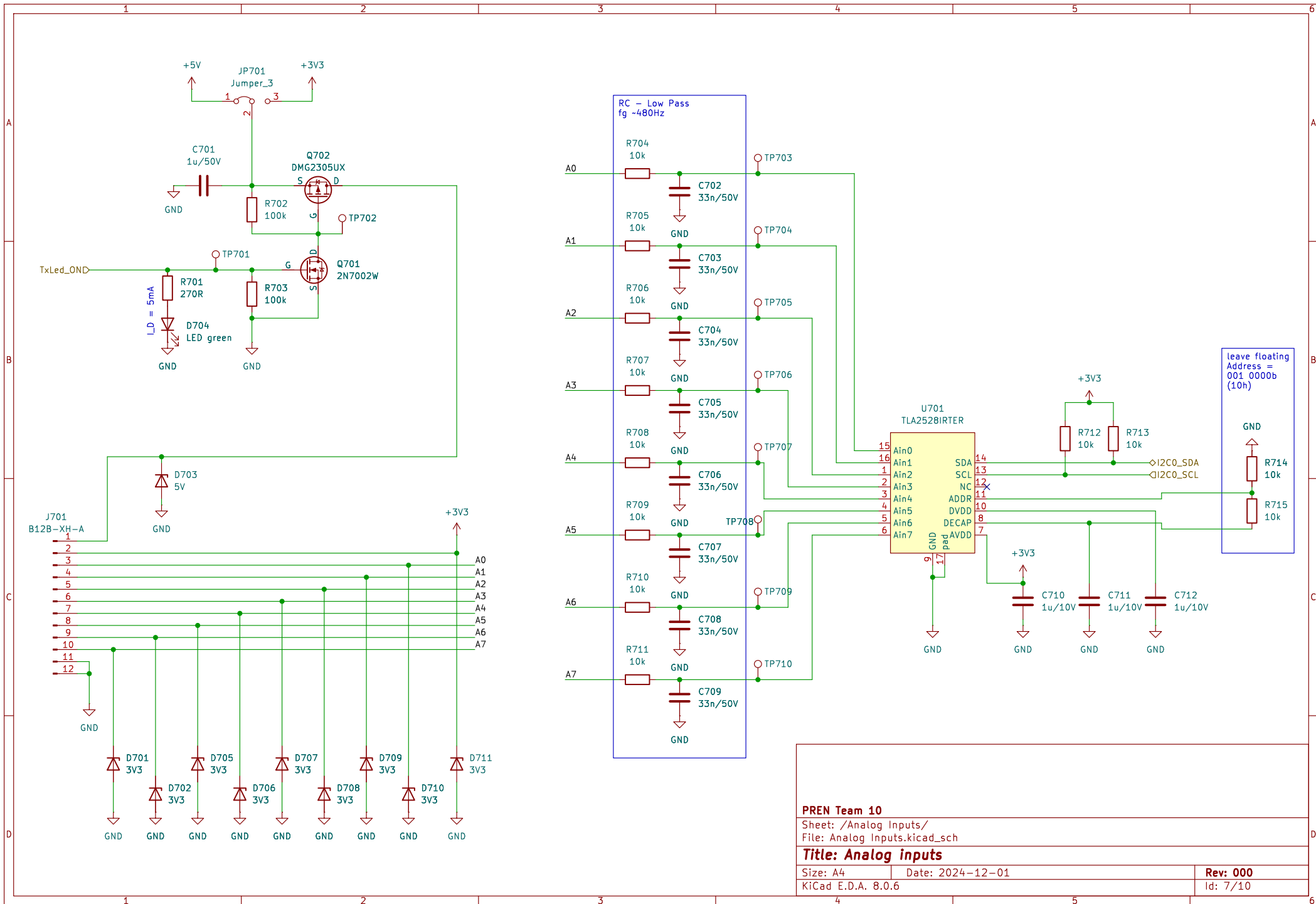
Rev: 000

KiCad E.D.A. 8.0.6

Id: 3/10







PREN Team 10

Sheet: /Analog Inputs/
File: Analog Inputs.kicad_sch

Title: Analog inputs

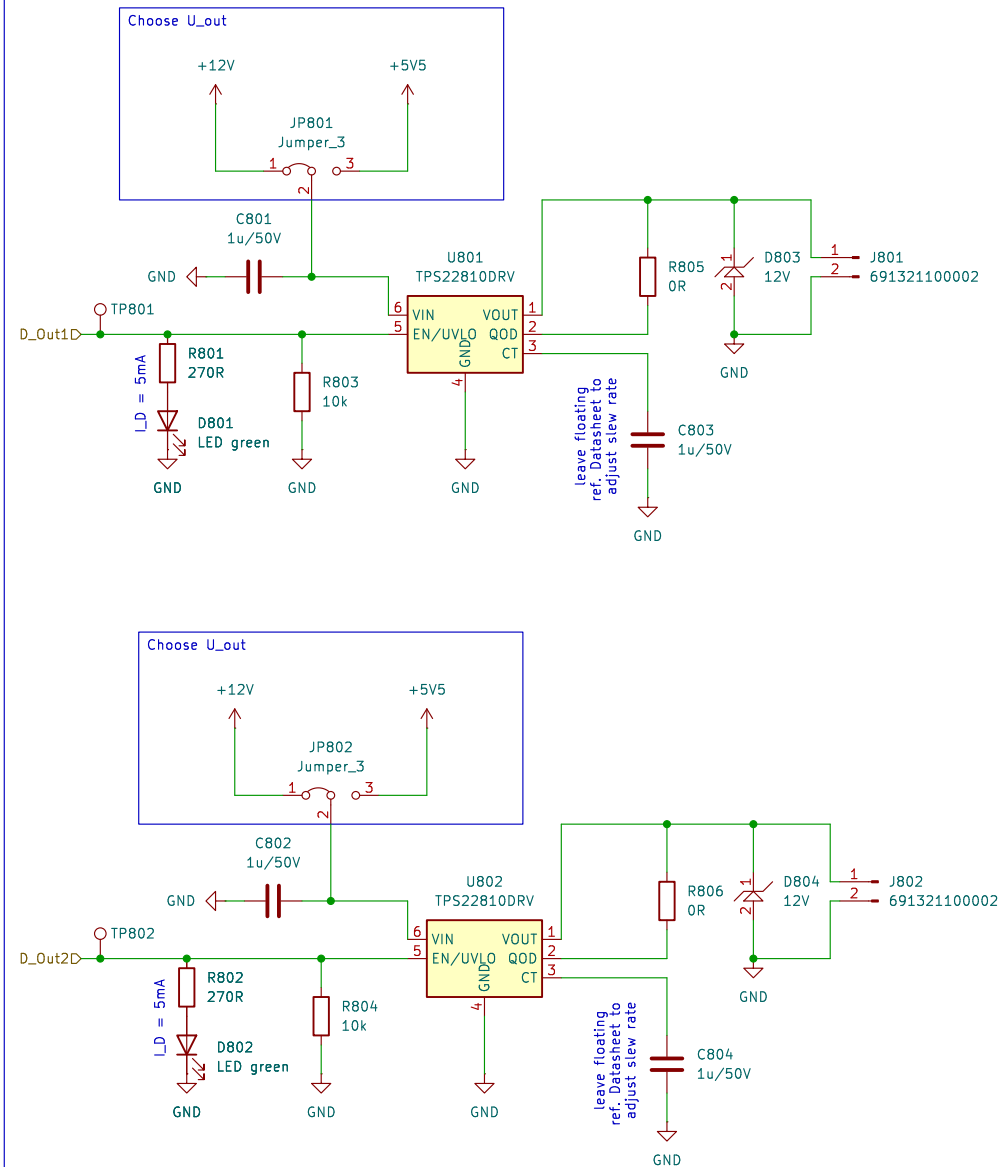
Size: A4 Date: 2024-12-01

KiCad E.D.A. 8.0.6

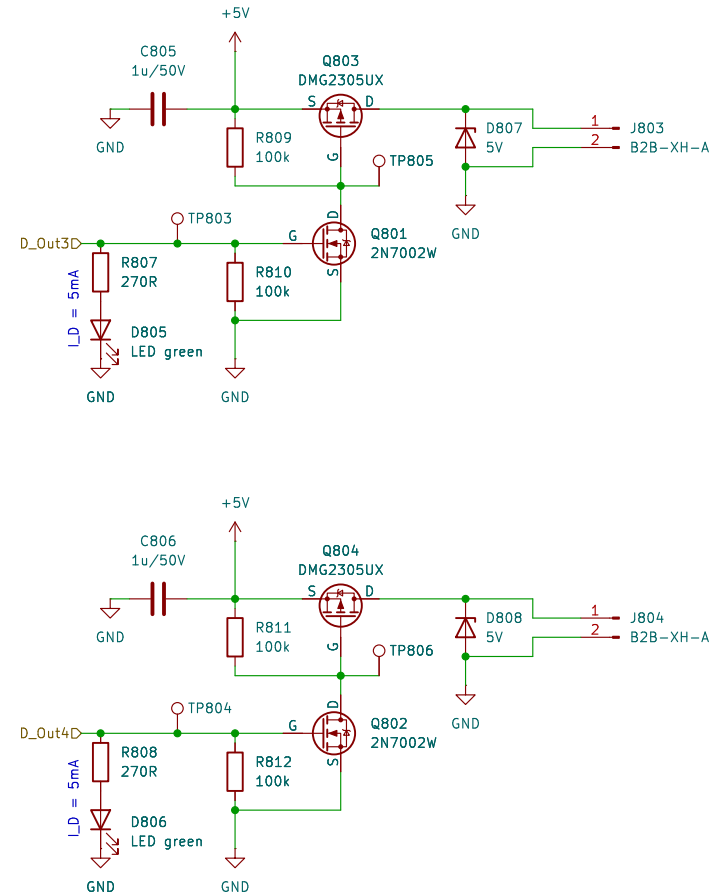
Rev: 000

Id: 7/10

Power Digital out -> up to 3A possible each



Logic Digital out - less power but fast -> e.g. pwm



PREN Team 10

Sheet: /Digital Outputs/
File: Digital_Outputs.kicad_sch

Title: Digital outputs

Size: A4

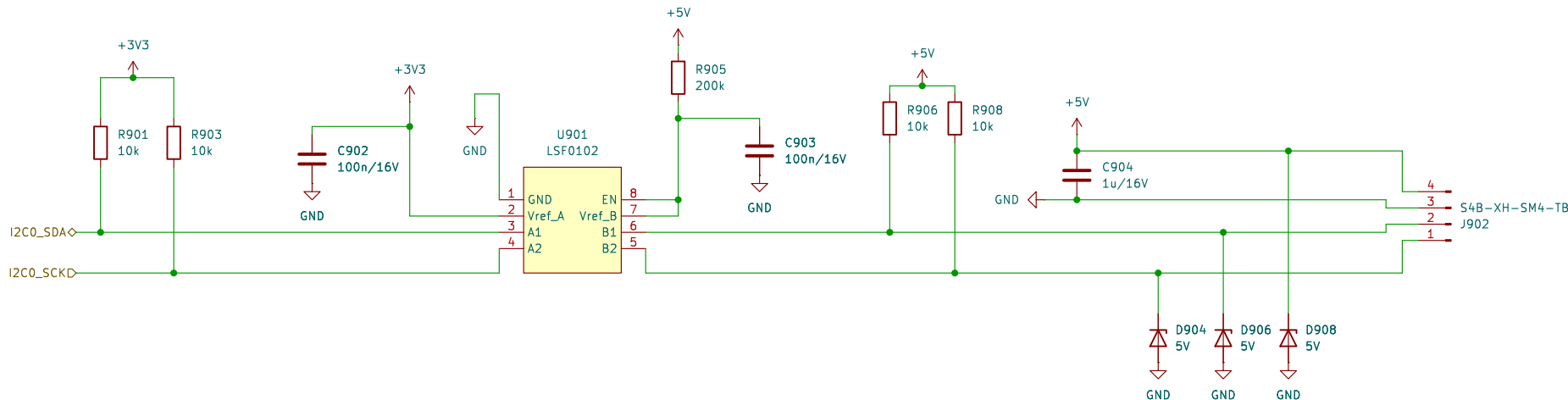
Date: 2024-12-01

Rev: 000

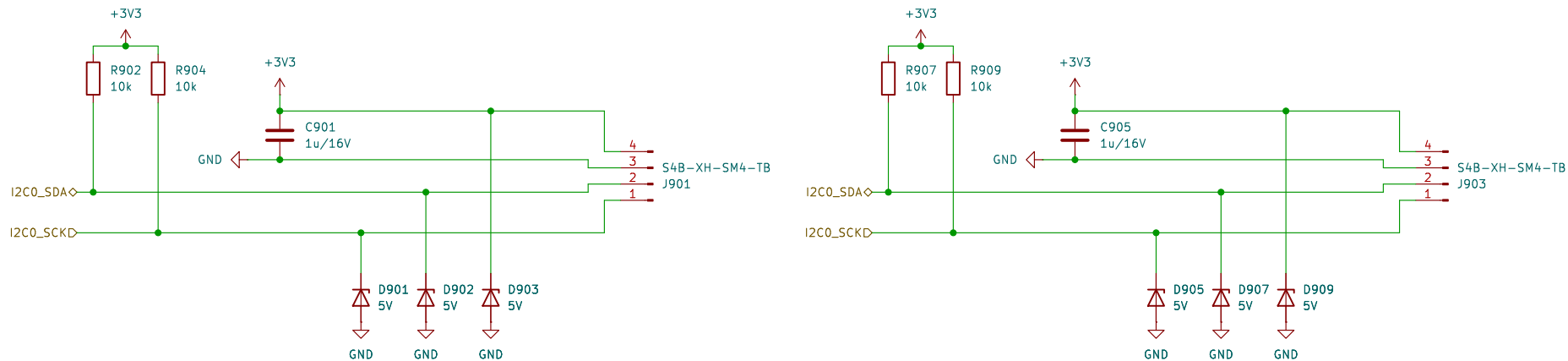
KiCad E.D.A. 8.0.6

Id: 8/10

I2C - Connector 5V level translation



I2C - Connectors 3V3 level



PREN Team 10

Sheet: /I2C Connectors/
File: I2C_Connectors.kicad_sch

Title: I2C connectors

Size: A4 Date: 2024-12-01

KiCad E.D.A. 8.0.6

Rev: 000

Id: 9/10

