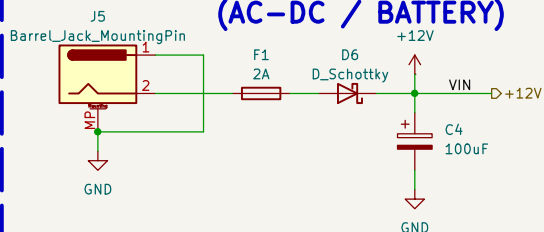


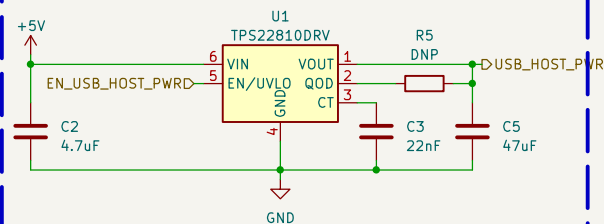
- H1
- H2
- FID1
- FID2
- FID3
- FID4
- FID5
- FID6

Sheet: /		
File: PRODIGY-MOTHERBOARD.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.3		Id: 1/18

POWER INPUT 7V – 28V (AC-DC / BATTERY)



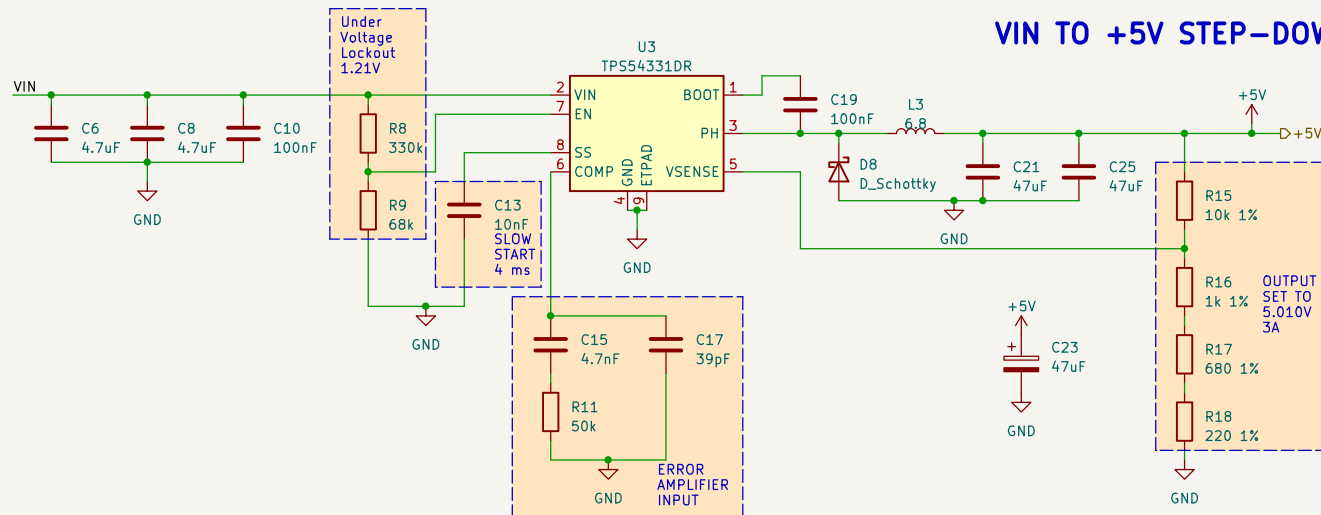
USB HOST POWER OUT



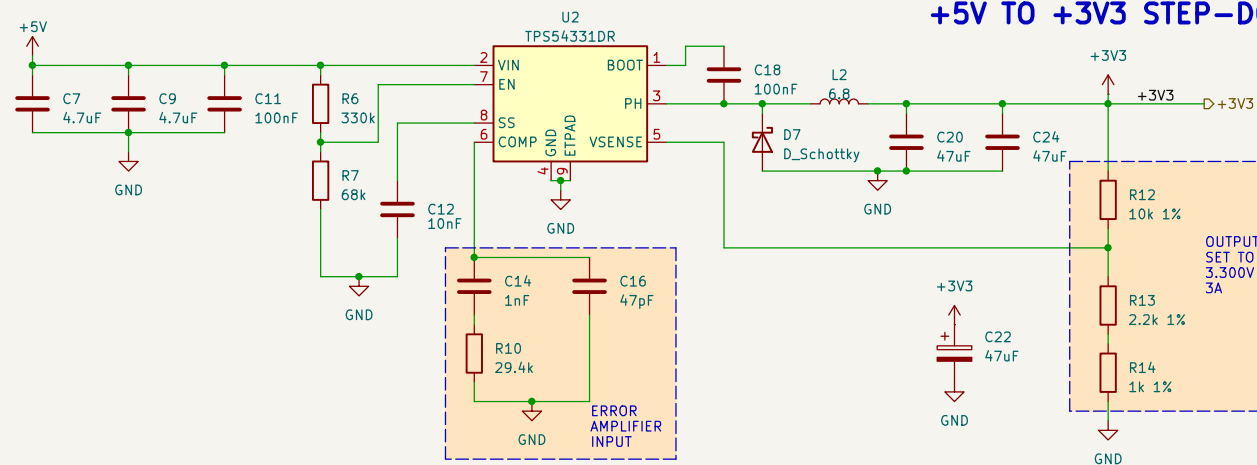
Analog Power



VIN TO +5V STEP-DOWN



+5V TO +3V3 STEP-DOWN



Sheet: /POWER/
File: power.kicad_sch

Title: Power Supply

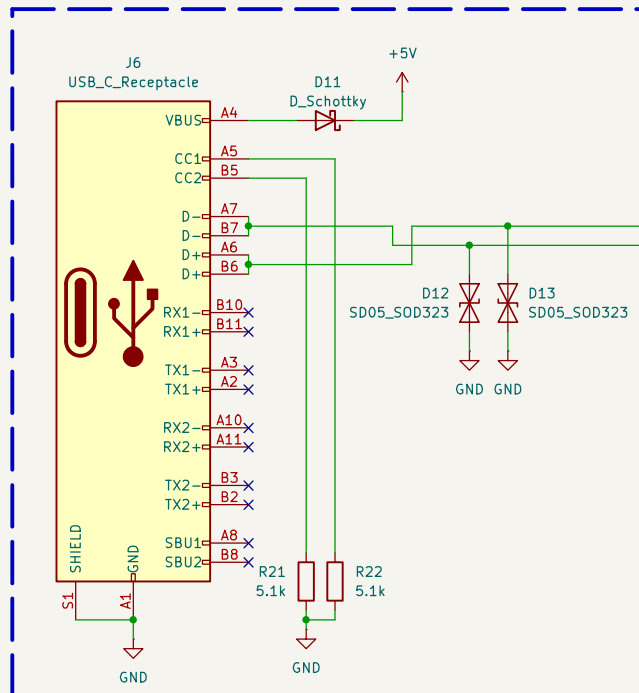
Size: A4 Date: 2023-12-27

KiCad E.D.A. 8.0.3

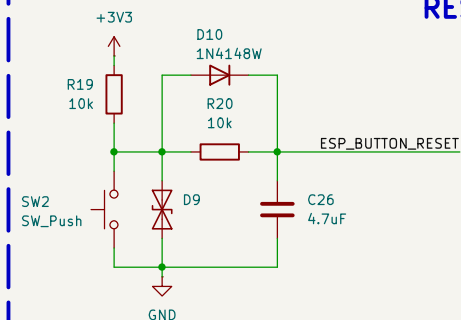
Rev:

Id: 3/18

USB-C USB 2.0



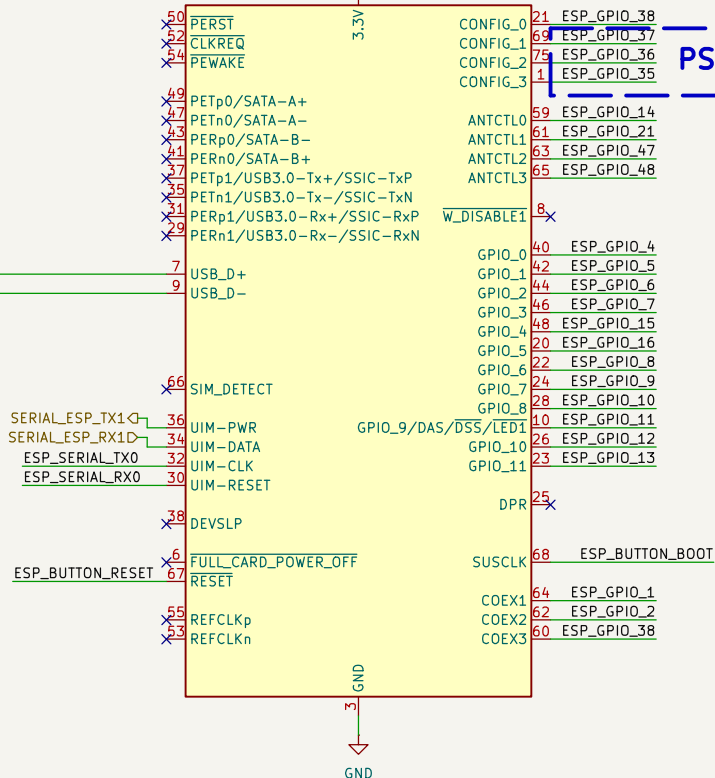
RESET Button



In USB CDC Mode
BOOT button is not needed,
But externally accessible

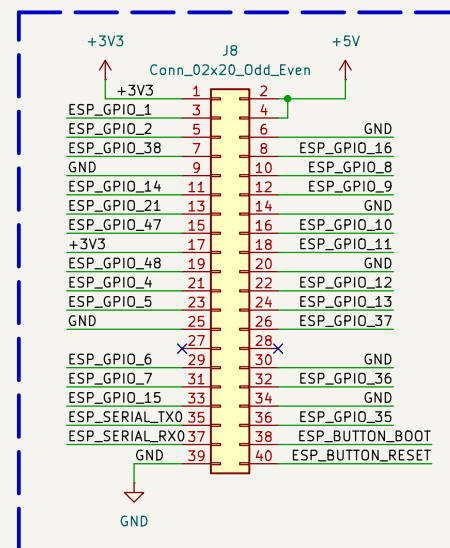
+3V3

J7
Bus_M.2_Socket_B



PSRAM

Raspberry Pi compatible GPIO breakout



FID9
Fiducial

FID10
Fiducial

Sheet: /esp32/
File: esp32.kicad_sch

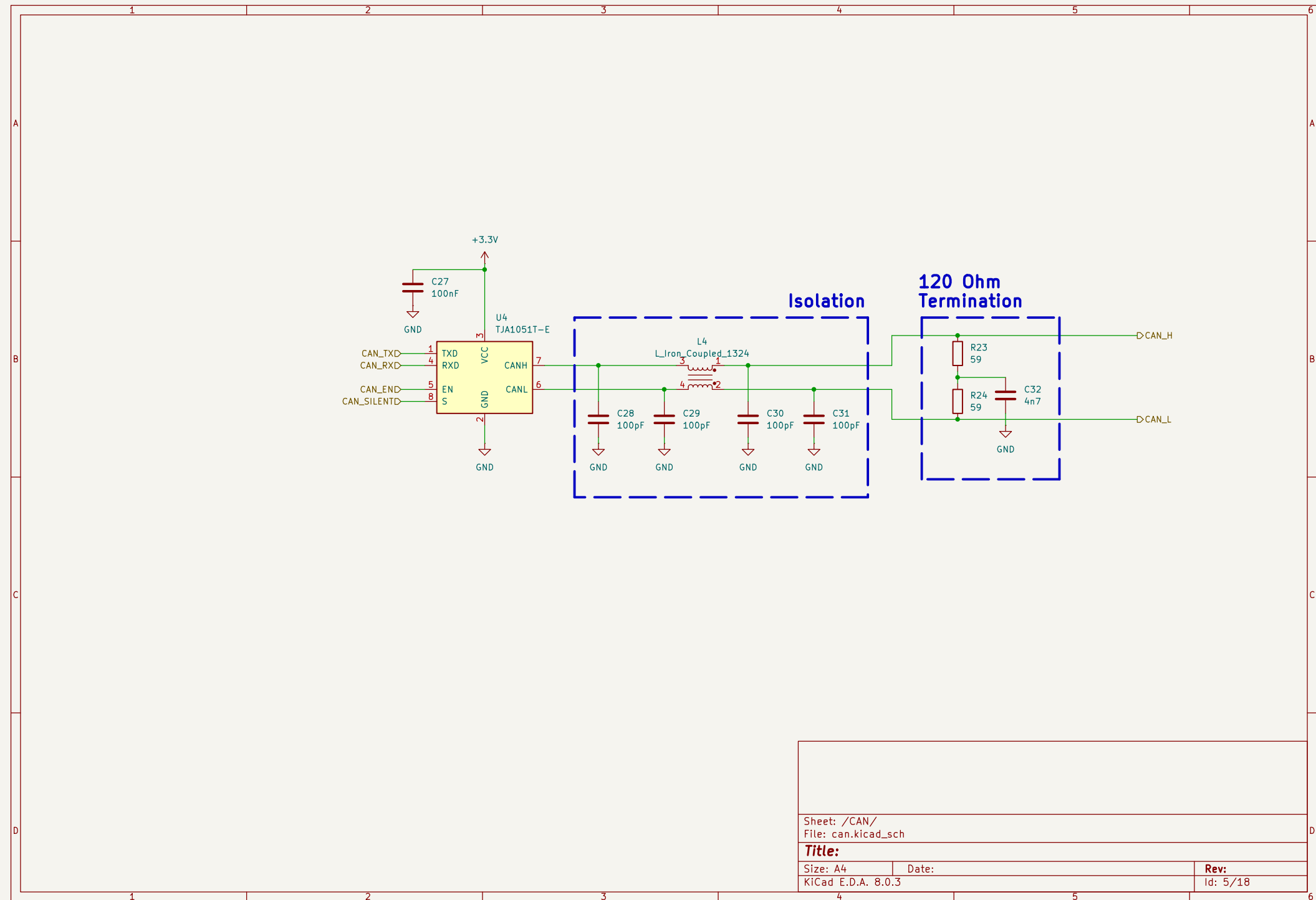
Title:

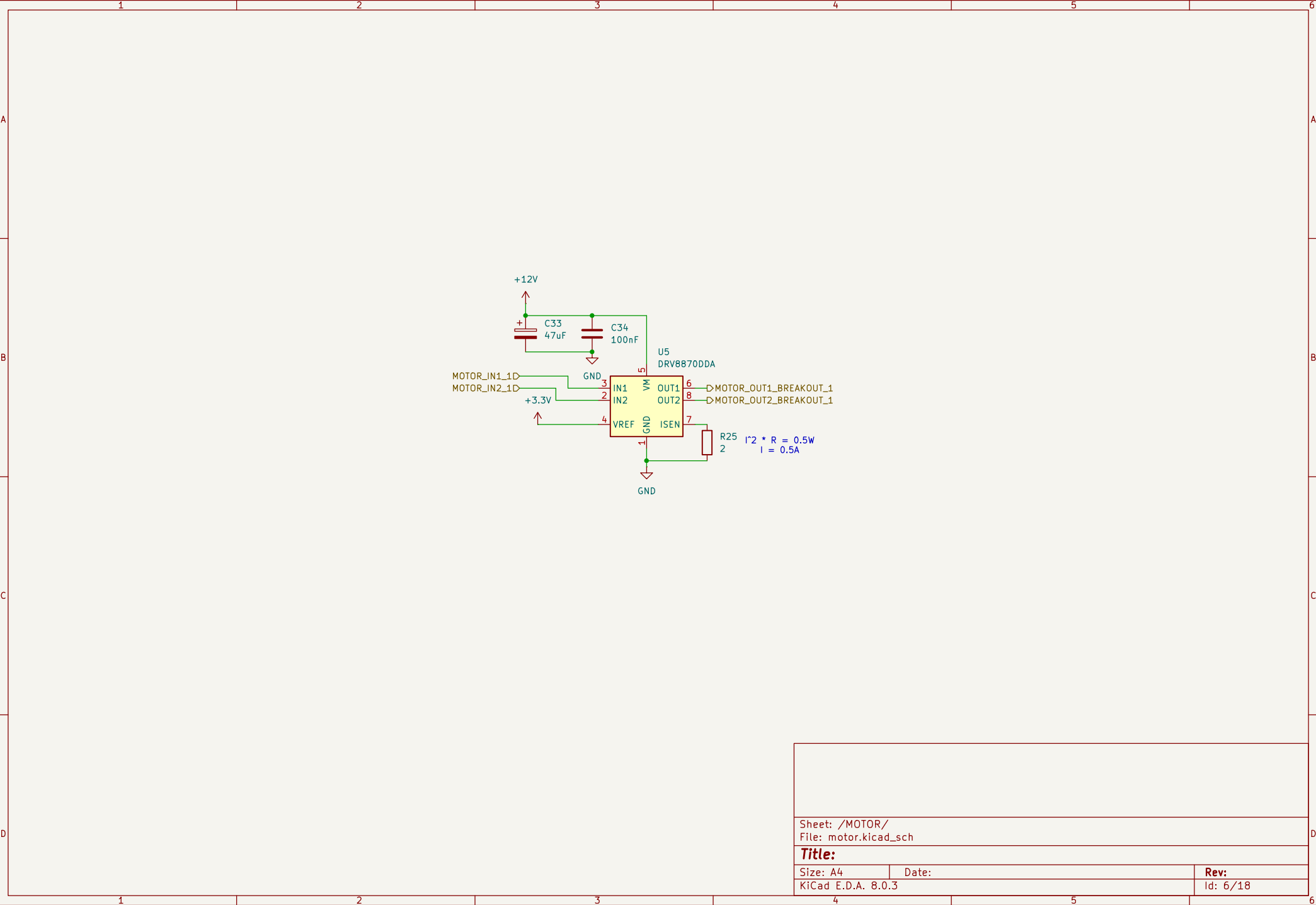
Size: A4
KiCad E.D.A. 8.0.3

Date:

Rev:

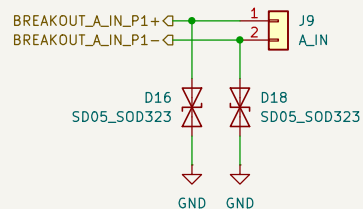
Id: 4/18



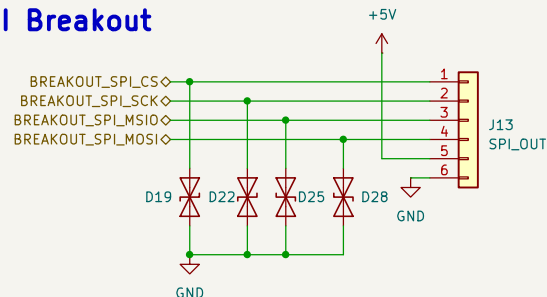


Sheet: /MOTOR/		
File: motor.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.3		Id: 6/18

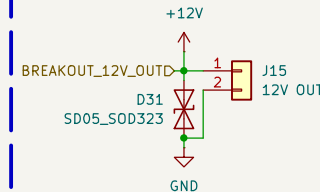
Piezo Sensor Input Breakout



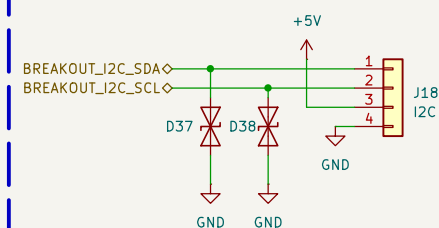
SPI Breakout



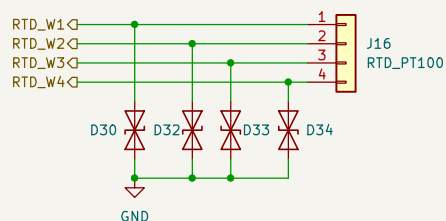
12V Power Breakout



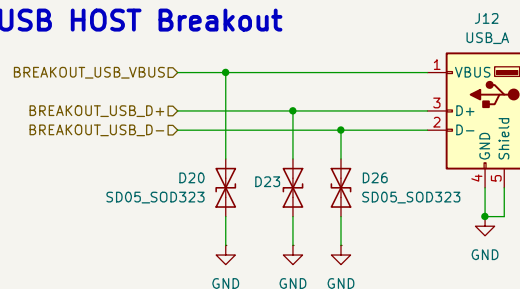
I2C Breakout



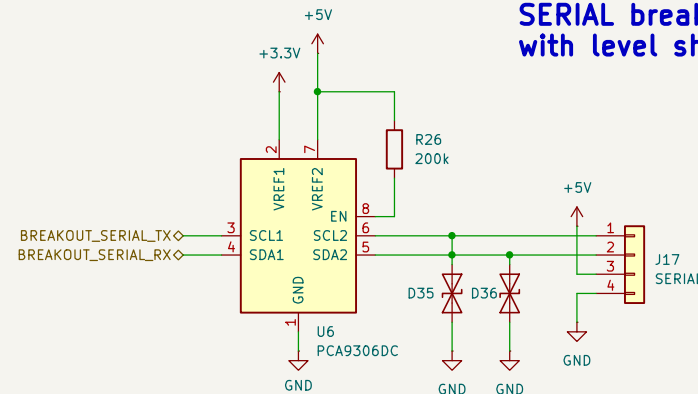
PT100/PT1000 Breakout



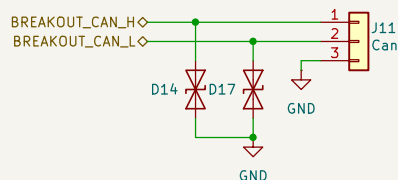
USB HOST Breakout



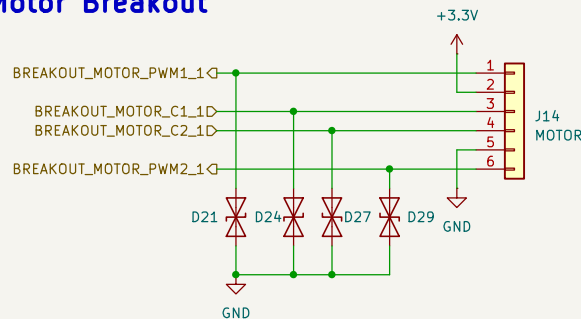
SERIAL breakout with level shifter



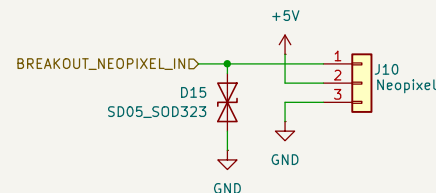
CAN Breakout



Motor Breakout



Neopixel Breakout



Sheet: /OUTPUTS/
File: outputs.kicad_sch

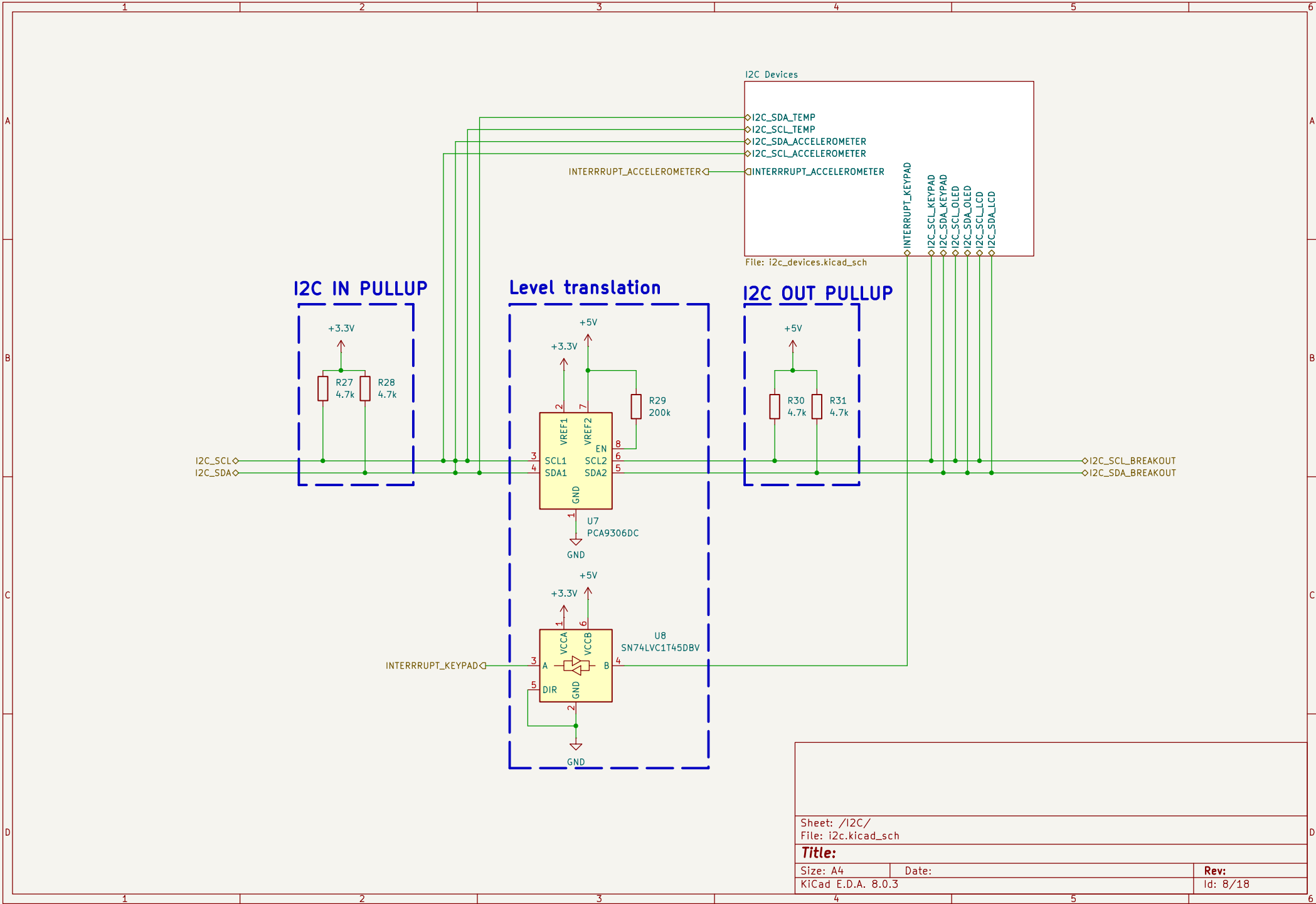
Title:

Size: A4
KiCad E.D.A. 8.0.3

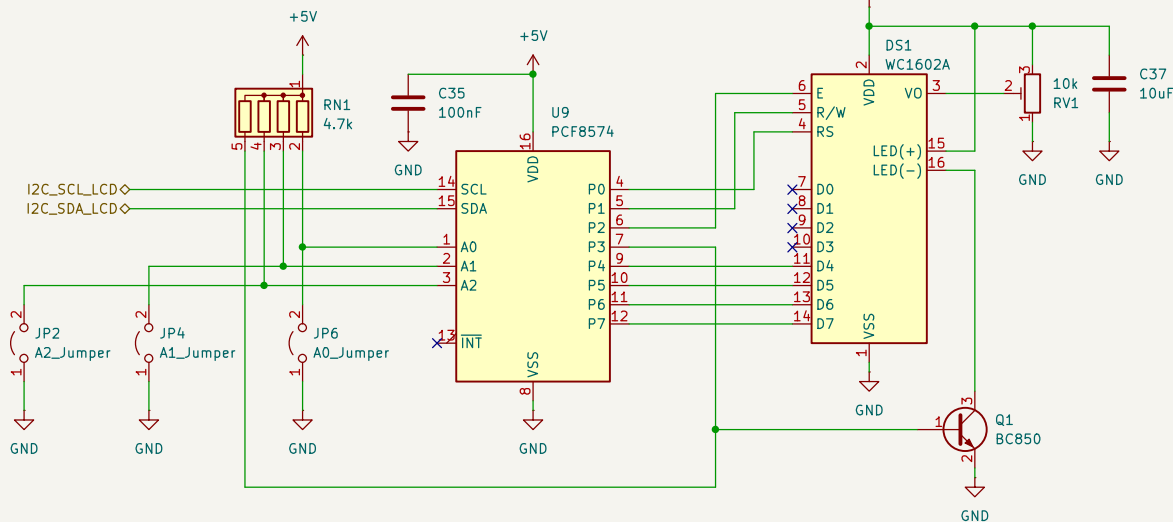
Date:

Rev:

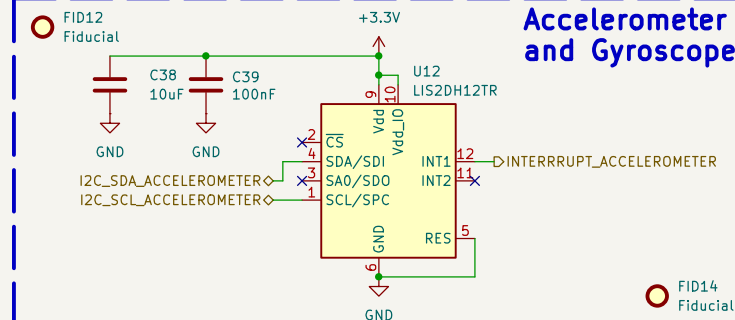
Id: 7/18



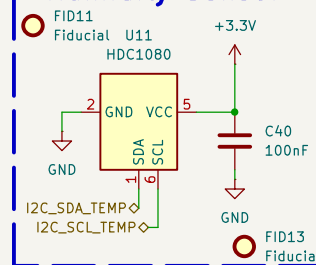
LCD with I2C I/O Expander



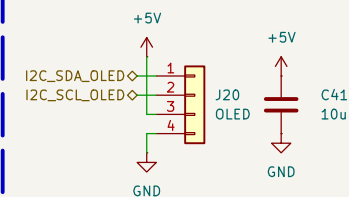
Accelerometer and Gyroscope



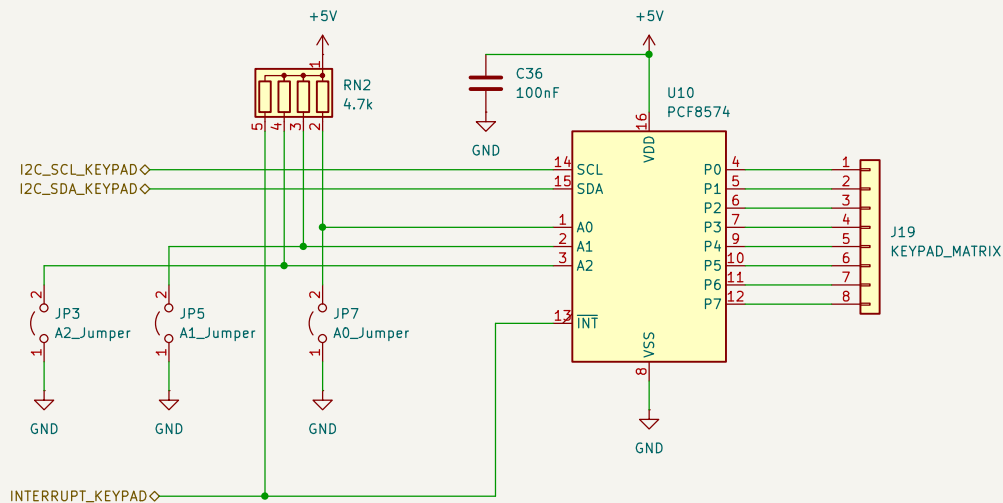
Temperature and Humidity Sensor



Oled Breakout 128x32



Keypad Matrix with I2C I/O Expander



Sheet: /I2C/I2C Devices/
File: i2c_devices.kicad_sch

Title:

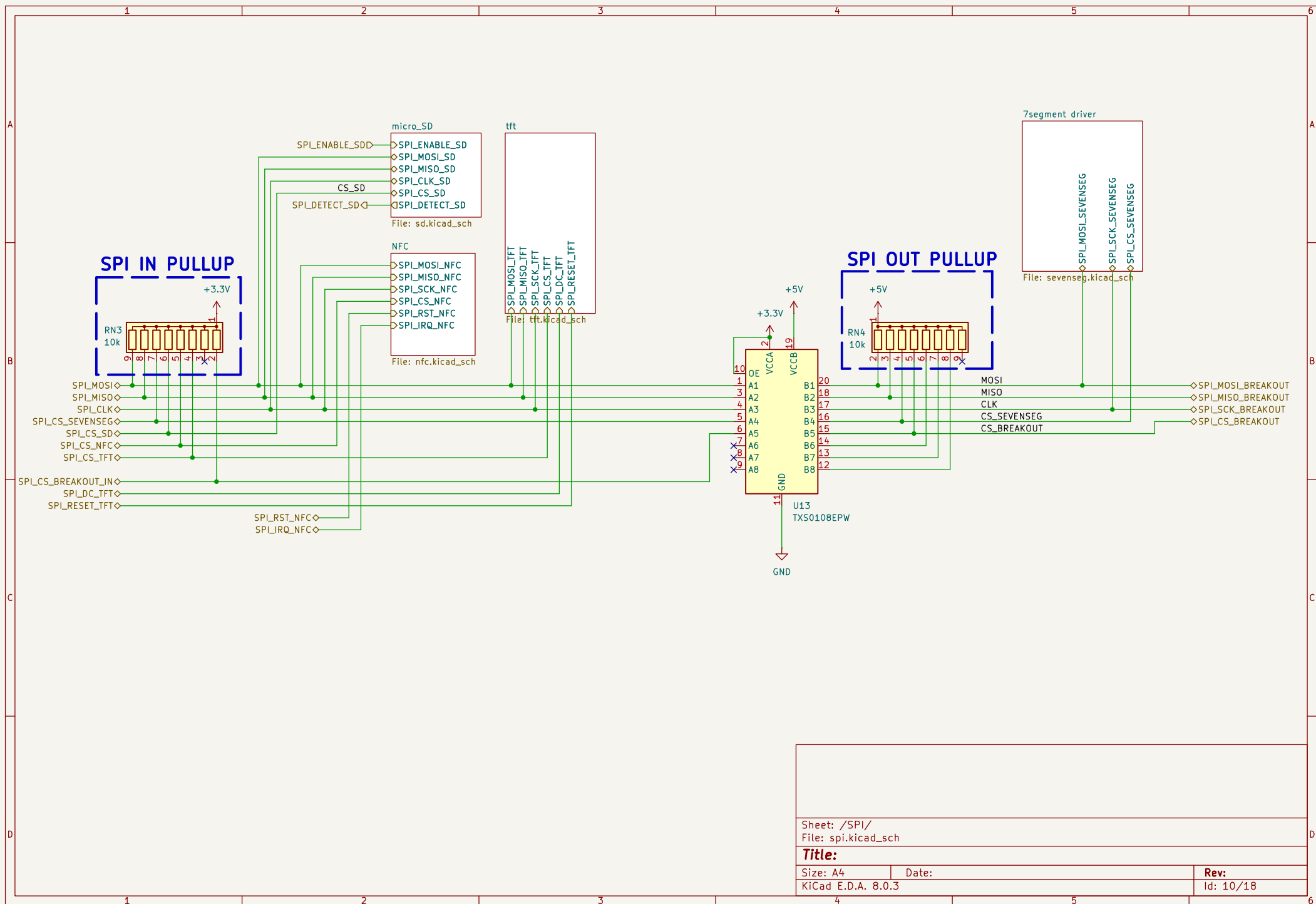
Size: A4

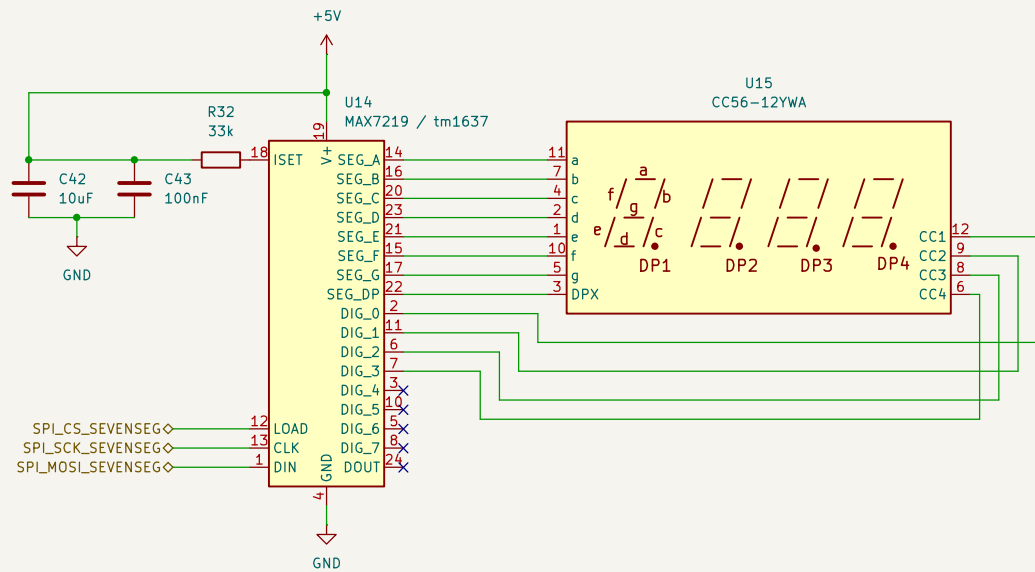
Date:

KiCad E.D.A. 8.0.3

Rev:

Id: 9/18





Sheet: /SPI/7segment driver/
File: sevenseg.kicad_sch

Title:

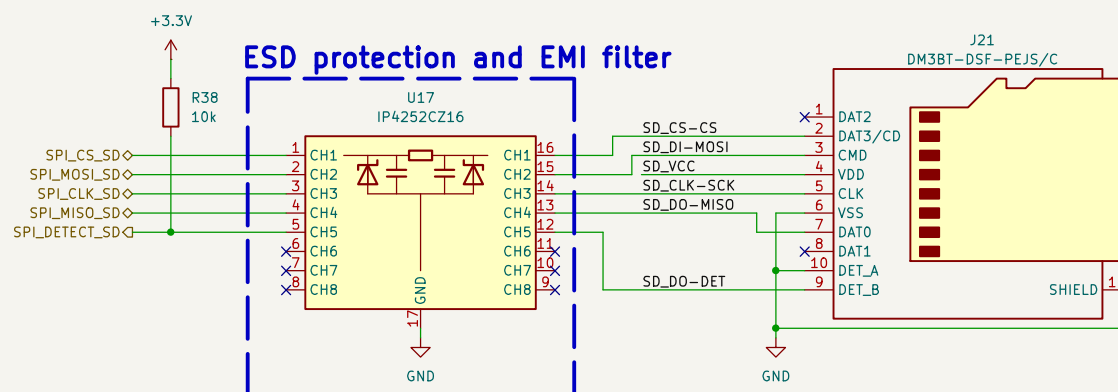
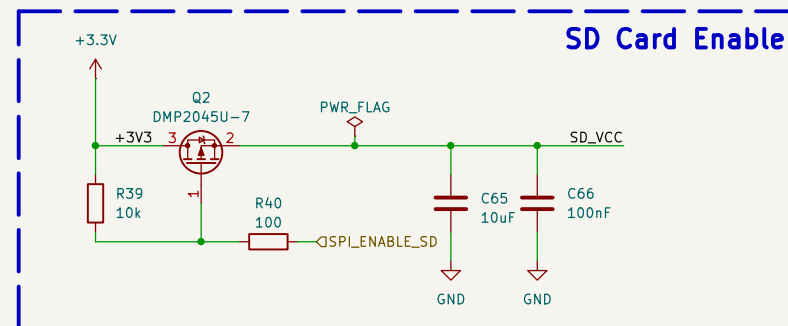
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.3

Id: 11/18



Sheet: /SPI/micro_SD/
File: sd.kicad_sch

Title:

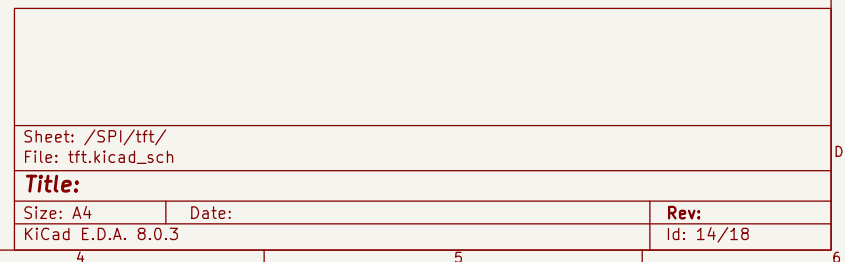
Size: A4

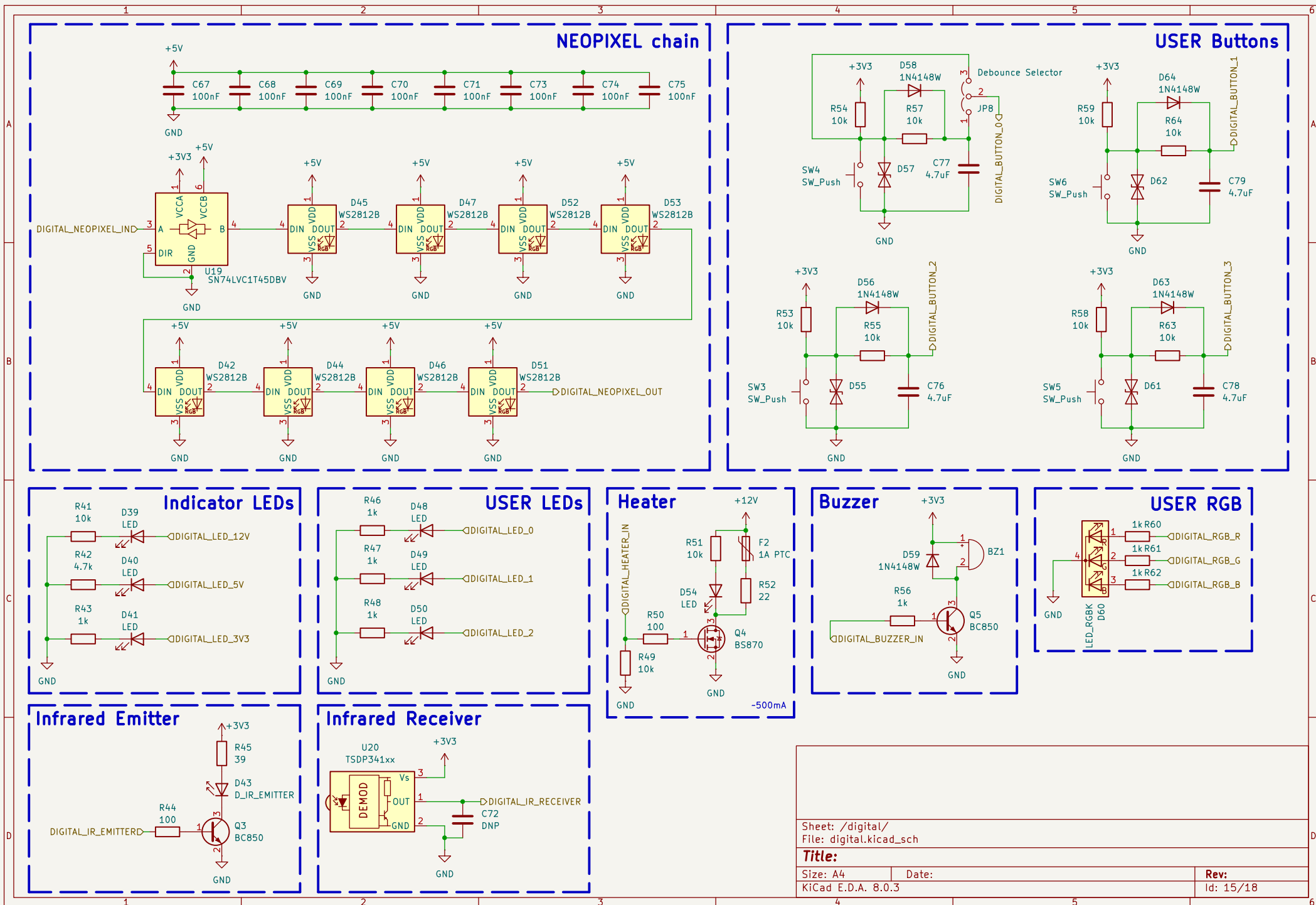
Date:

Rev:

KiCad E.D.A. 8.0.3

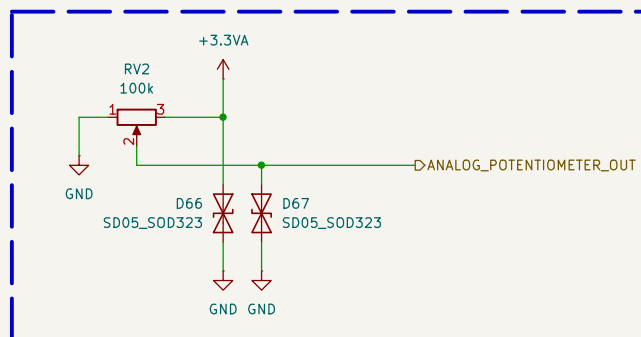
Id: 13/18



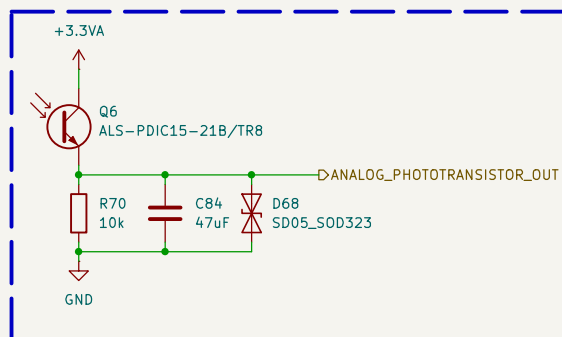


Sheet: /digital/ File: digital.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.3		Id: 15/18

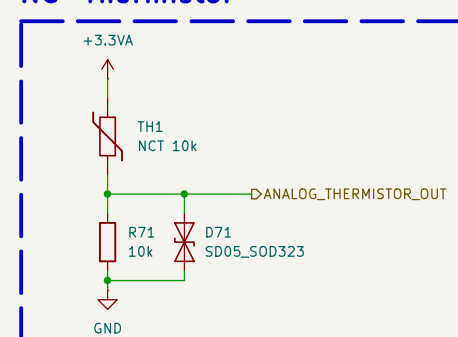
Potentiometer



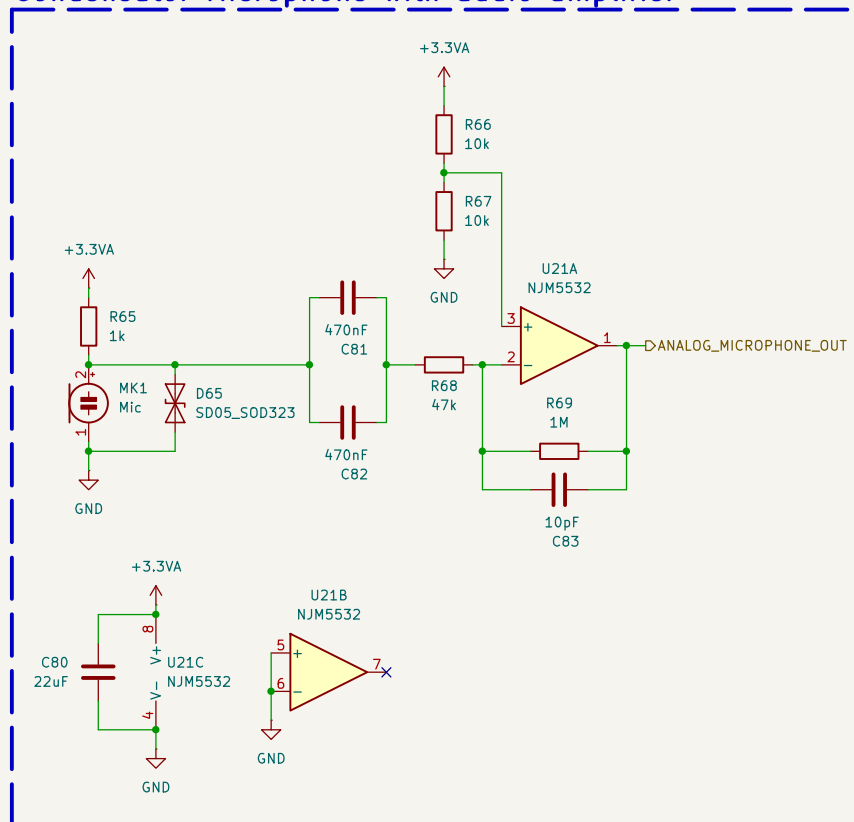
Phototransistor



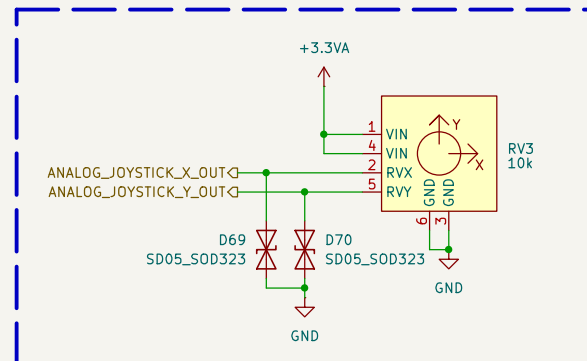
NC-Thermistor



Condensator Microphone with audio amplifier



2-Axis Joystick



Sheet: /analog/
File: analog.kicad_sch

Title:

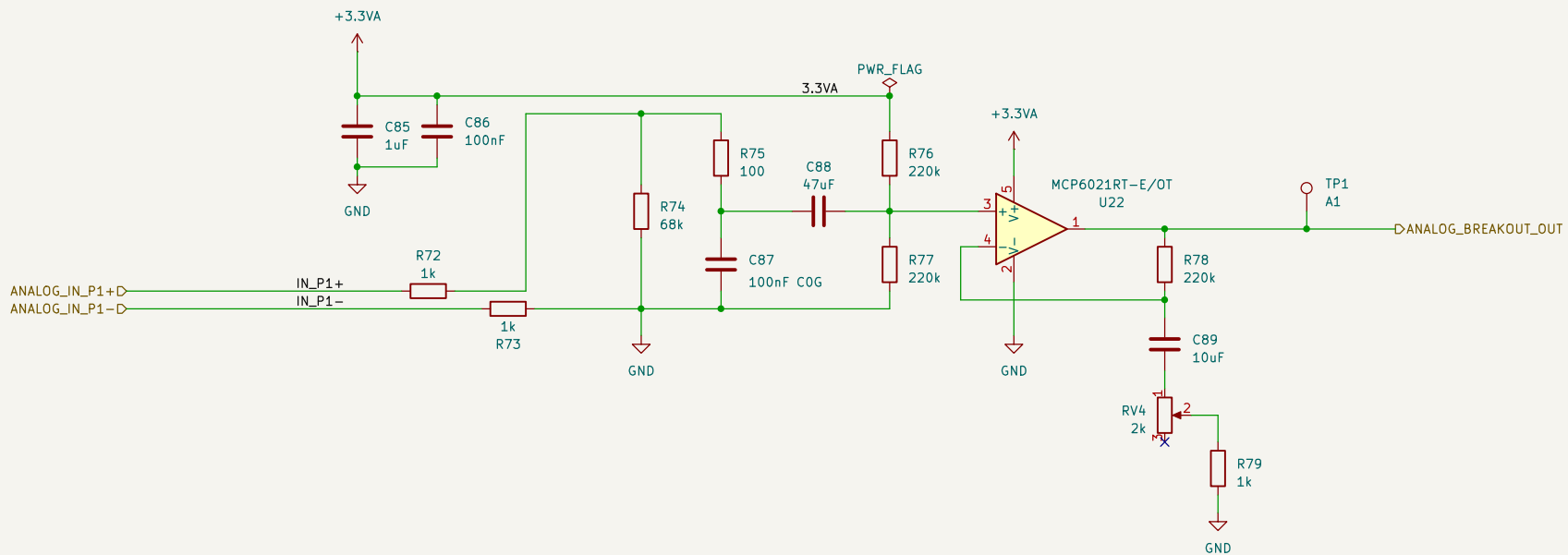
Size: A4

Date:

KiCad E.D.A. 8.0.3

Rev:

Id: 16/18



Sheet: /50Hz Filter/
File: filter.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.3

Rev:

Id: 17/18

