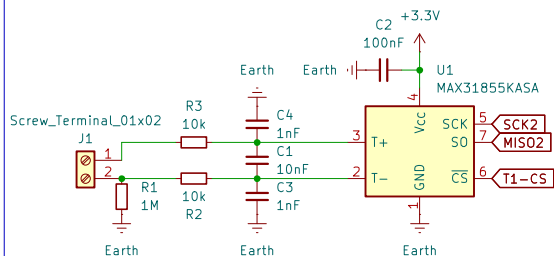
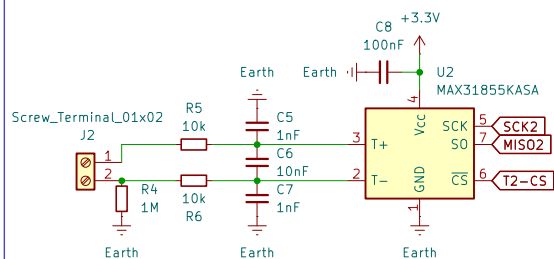


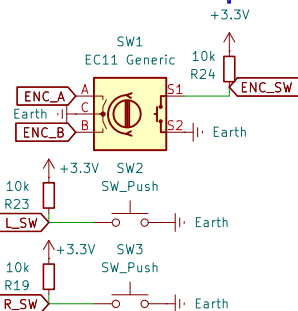
Thermocouple Amplifier 1



Thermocouple Amplifier 2

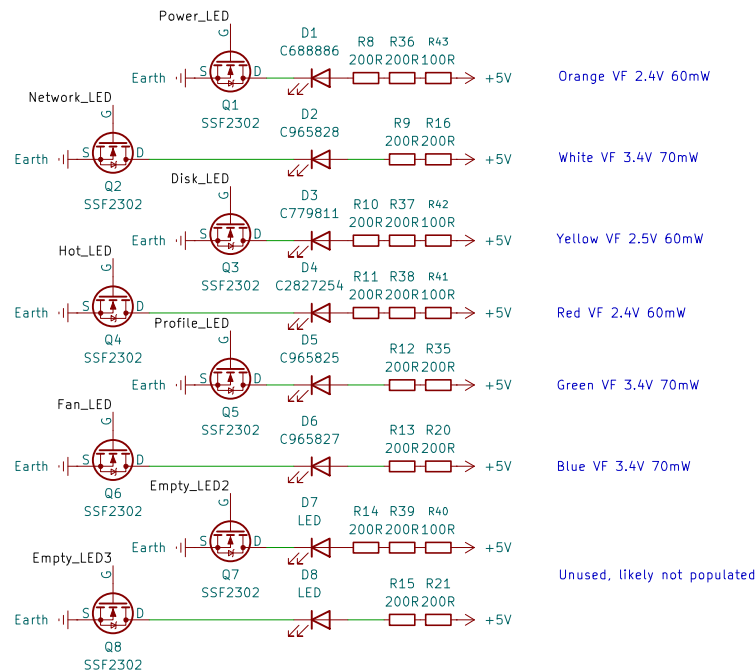


User Interface Inputs



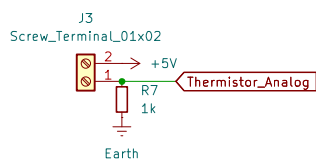
Indicator LEDs

Part No. from LCSC



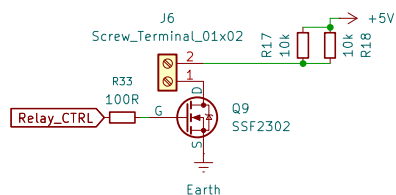
SSR Thermistor Input

LCSC Thermistor No. C394024

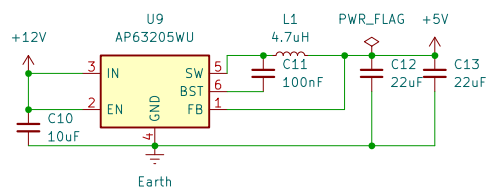


Relay Control Out

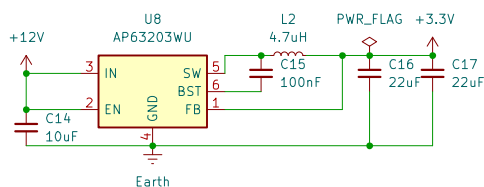
Selec Controls SSR RSS-TD1A1402P



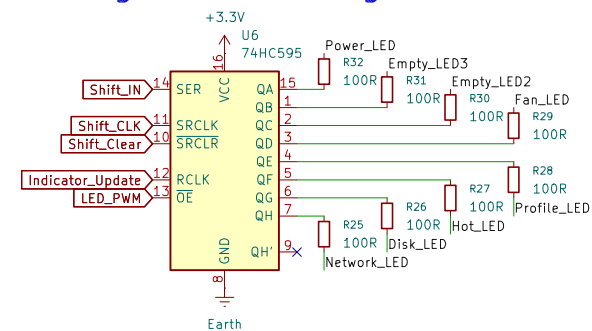
12V to 5V Buck



12V to 3.3V Buck



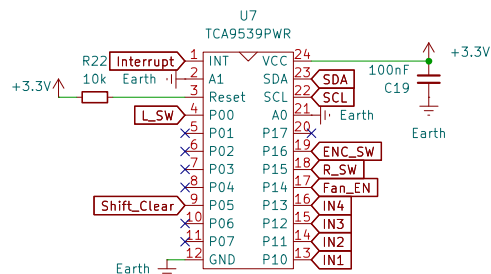
Shift Register for Addressing LEDs



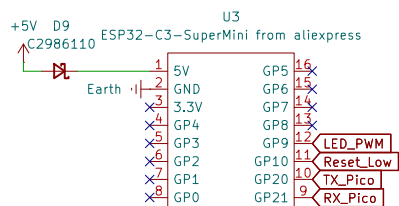
RP-Pico

File: Pico.kicad_sch

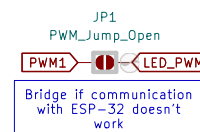
I2C I/O Expander



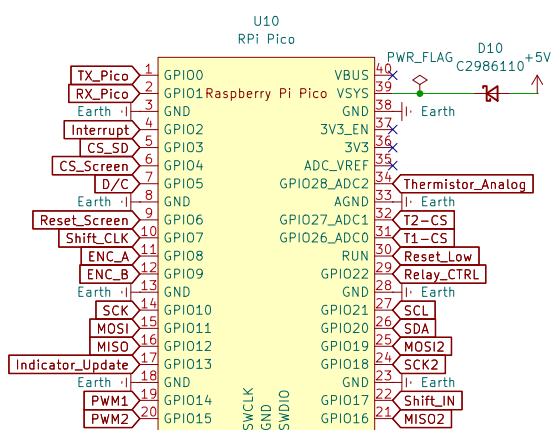
Web I/O Controller + LED PWM



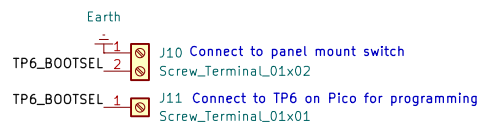
In Case UART? communication doesn't work



Main Controller



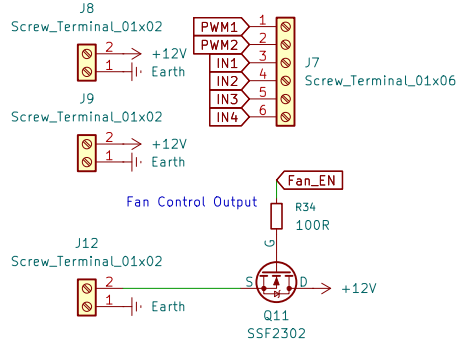
Reset the pico by pulling the Reset_Low signal to GND (~50k pull up normally)



Vent Fan & Electronic Dampers

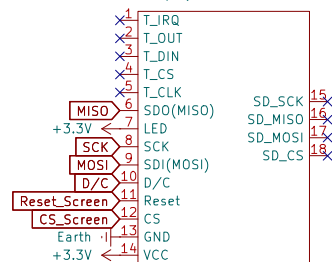
Not used unless I add a
vent fan and electronic dampers

Stepper/Servo Motor Driver Outputs



Device Screen

U4
2.8" _SPI_Display Touch Screen for ESP32



uSD Card Module

Connect rear jumper on module for 3.3V operation

MicroSD Socket Module (AliExpress)

