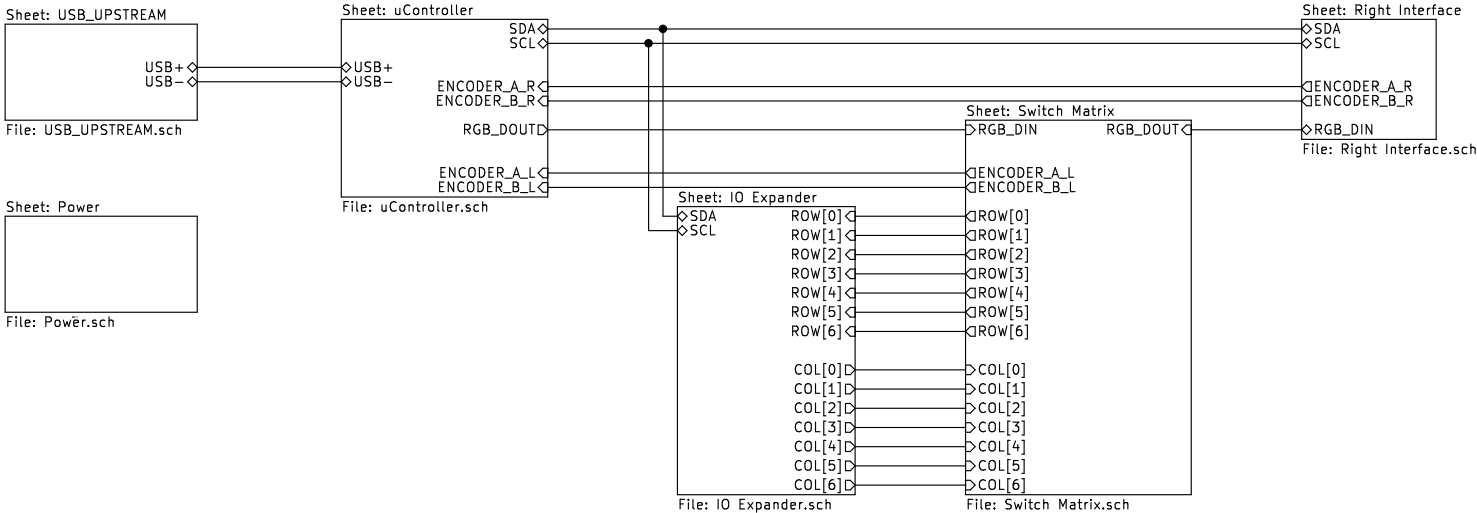


ergonomic split keyboard – left side

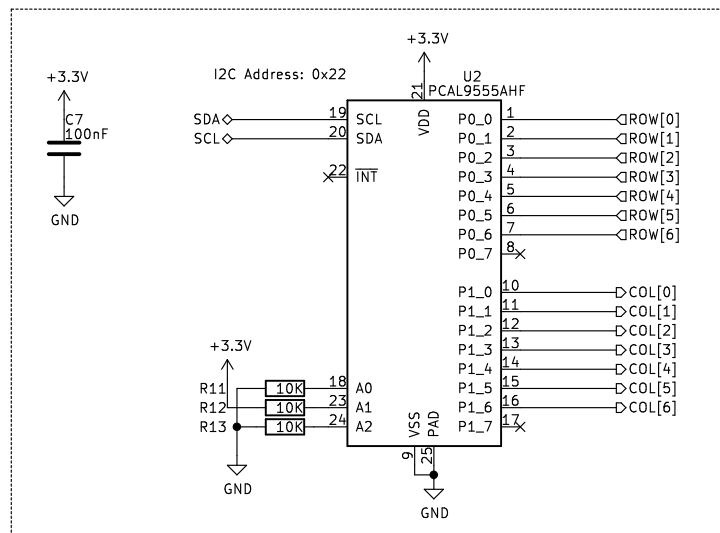


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KiCad E.D.A. kicad (5.1.8)-1		Id: 1/7

IO Expander

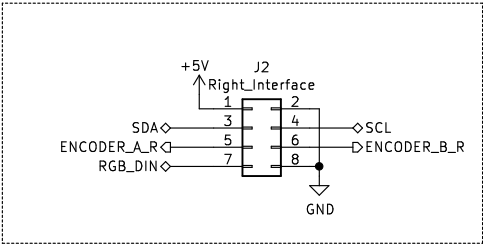
The schematic diagram illustrates the connection of a PCAL9555AHF IO Expander (U2) to a +3.3V supply and ground. The chip is configured with an I2C Address of 0x22. The SDA (pin 19) and SCL (pin 20) pins are connected to the I2C bus. The INT pin (pin 22) is connected to ground. The VDD pin (pin 21) is connected to +3.3V. The VSS PAD pin (pin 25) is connected to ground. The chip has two sets of 8 pins each, labeled P0_0 to P0_7 and P1_0 to P1_7. The P0 pins are connected to ROW[0] to ROW[6] (pin 8 is marked with an 'X'). The P1 pins are connected to COL[0] to COL[6] (pin 17 is marked with an 'X'). A +3.3V supply is connected to the circuit via a 100nF capacitor (C7) to ground. Three 10K resistors (R11, R12, R13) are connected to the A0, A1, and A2 pins (pins 18, 23, and 24 respectively) to ground, with a +3.3V supply connected to the other ends of the resistors.

Sheet: /IO Expander/	
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Right Interface



Sheet: /Right Interface/
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Size: A4

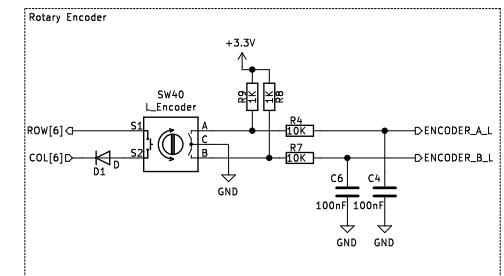
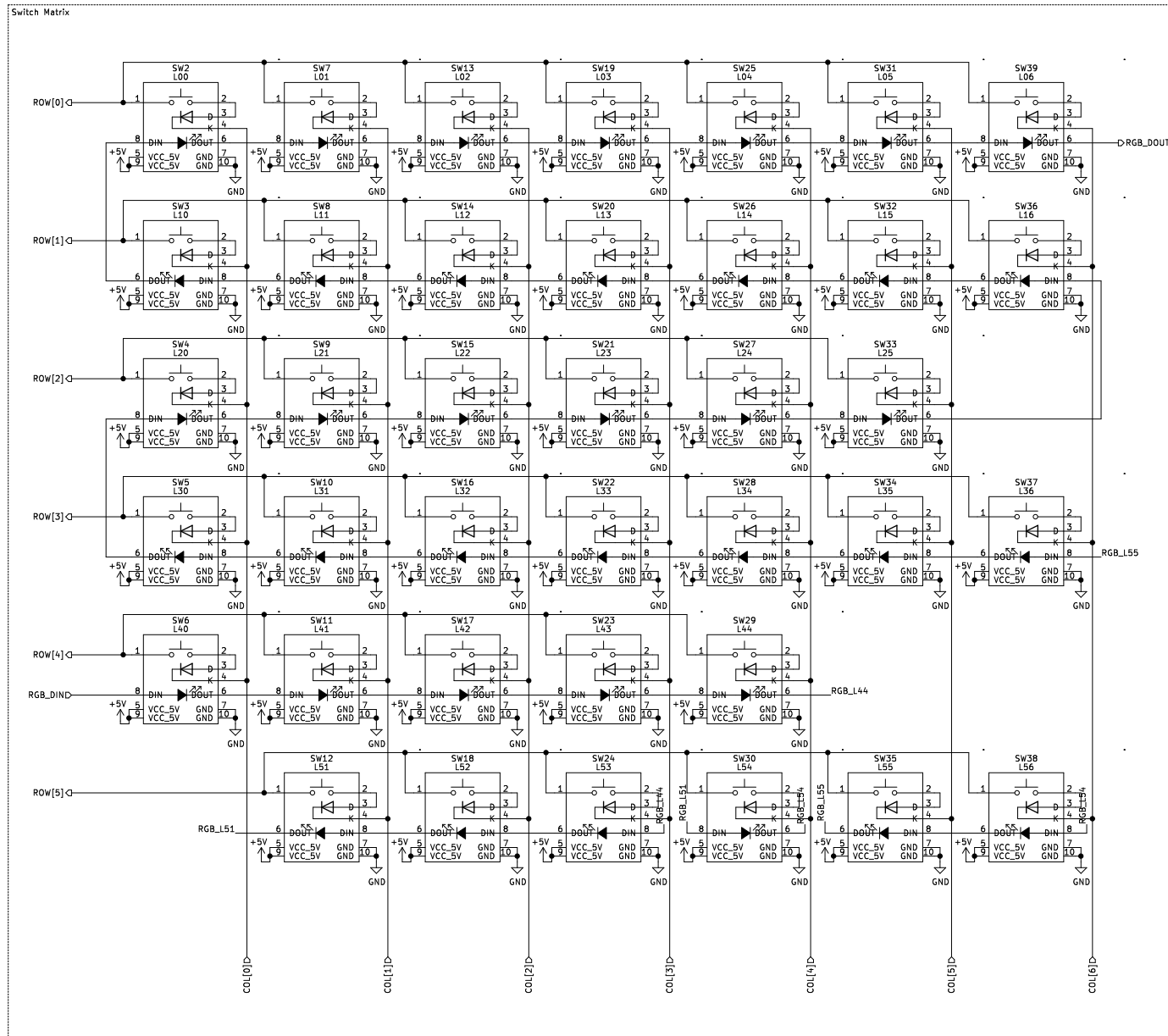
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Id: 3/7

Switch Matrix



Sheet: /Switch Matrix/
File: Switch Matrix.sch

Title:

Size: A3

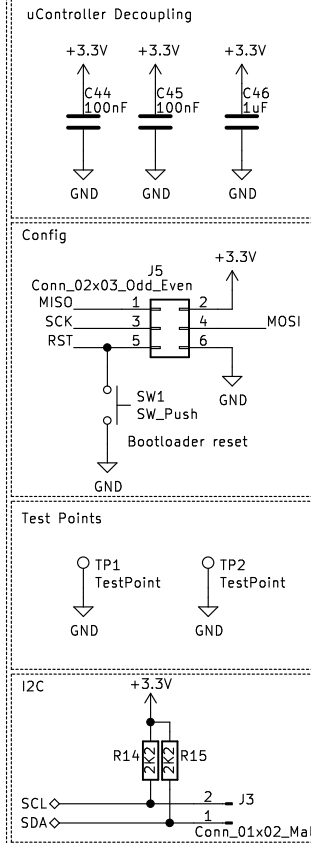
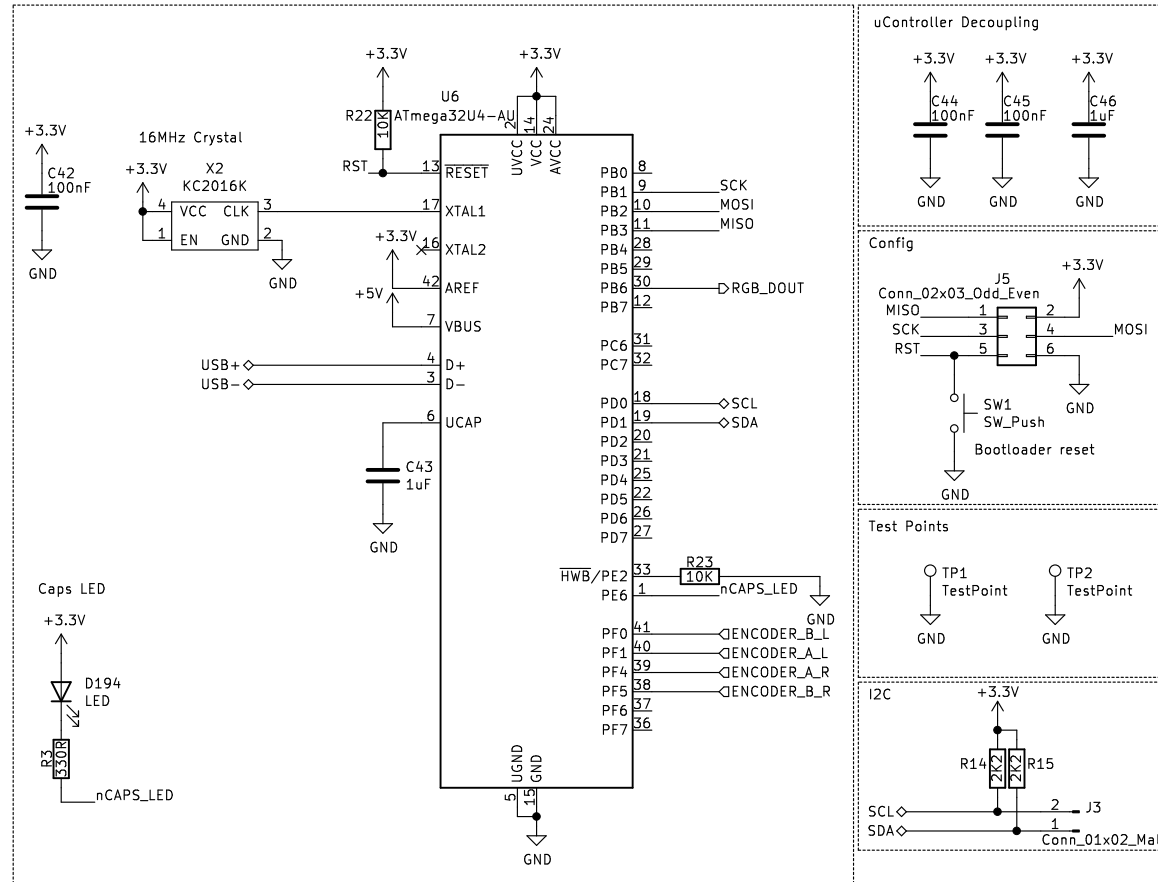
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uController



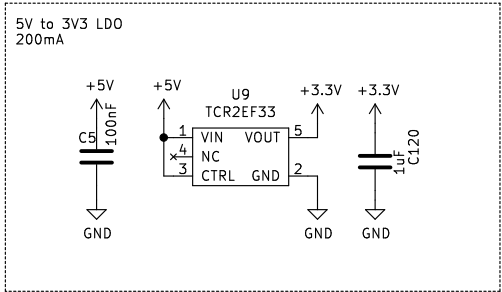
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File: uController.sch

Title: TKL Keyboard

Size: A4 Date:
KiCad E.D.A. kicad (5.1.8)-1

Rev: 0
Id: 5/7

Power



H1
MountingHole_Pad

H4
MountingHole_Pad

H7
MountingHole_Pad

H10
MountingHole_Pad

H2
MountingHole_Pad

H5
MountingHole_Pad

H8
MountingHole_Pad

H3
MountingHole_Pad

H6
MountingHole_Pad

H9
MountingHole_Pad

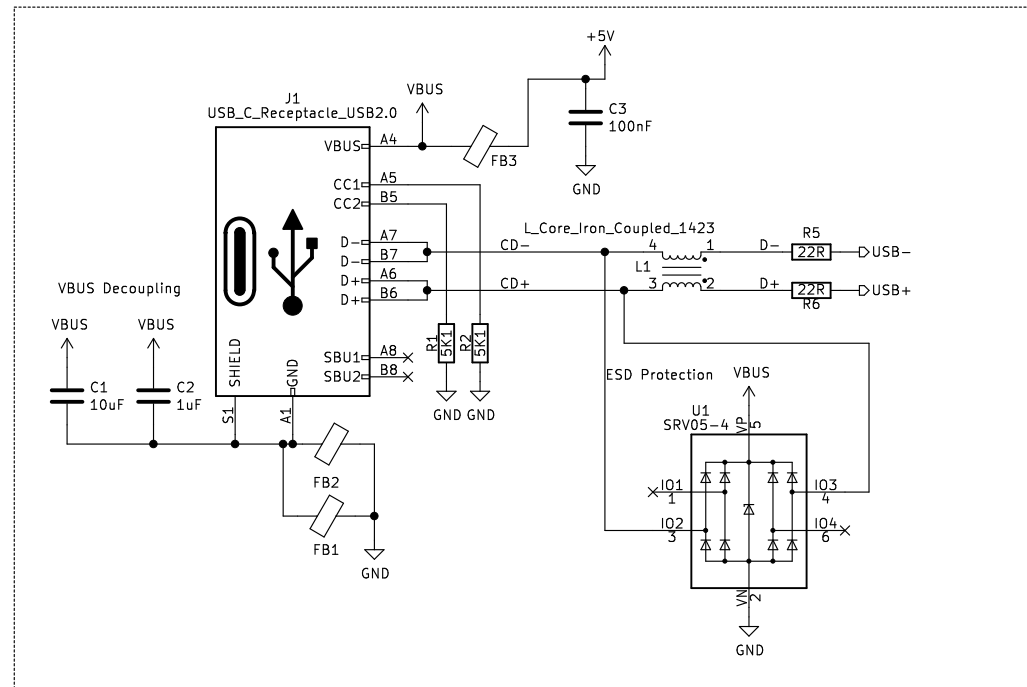
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File: Power.sch

Title: TKL Keyboard

Size: A4 Date:
KiCad E.D.A. kicad (5.1.8)-1

Rev: 0
Id: 6/7

USB Upstream



Sheet: /USB_UPSTREAM/
File: USB_UPSTREAM.sch

Title: TKL Keyboard

Size: A4 Date:
KiCad E.D.A. kicad (5.1.8)-1

Rev: 0
Id: 7/7