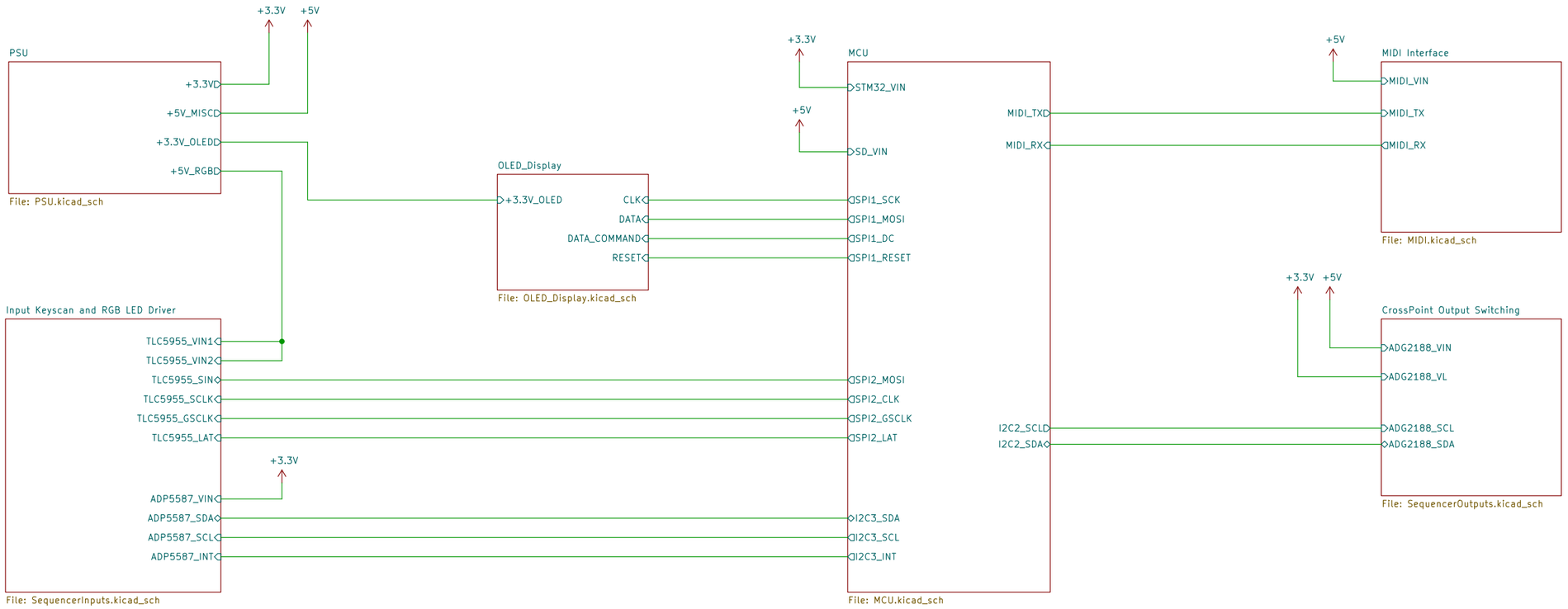
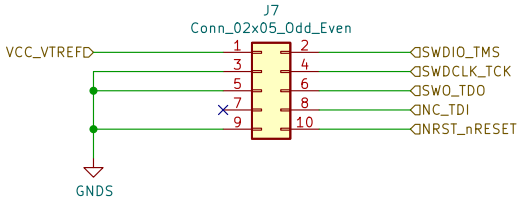


Sheet: /
File: BassStation_Sequencer_MidiInterface.kicad_sch

Title: BassStation Sequencer_MIDIController

Size: A3	Date:	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 1/47



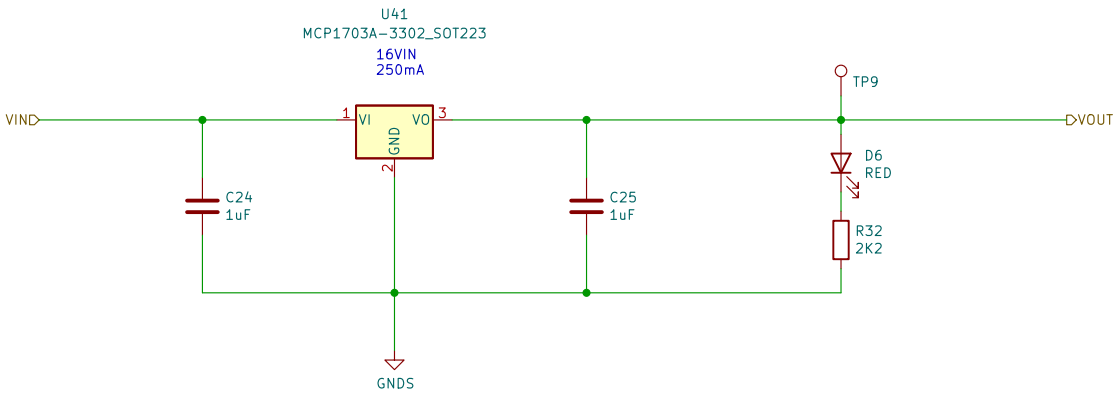
Created by C Sutton

Sheet: /MCU/10PinARMSWD/

File: 10PinARMSWD.kicad_sch

Title: Debug Connector

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 2/47

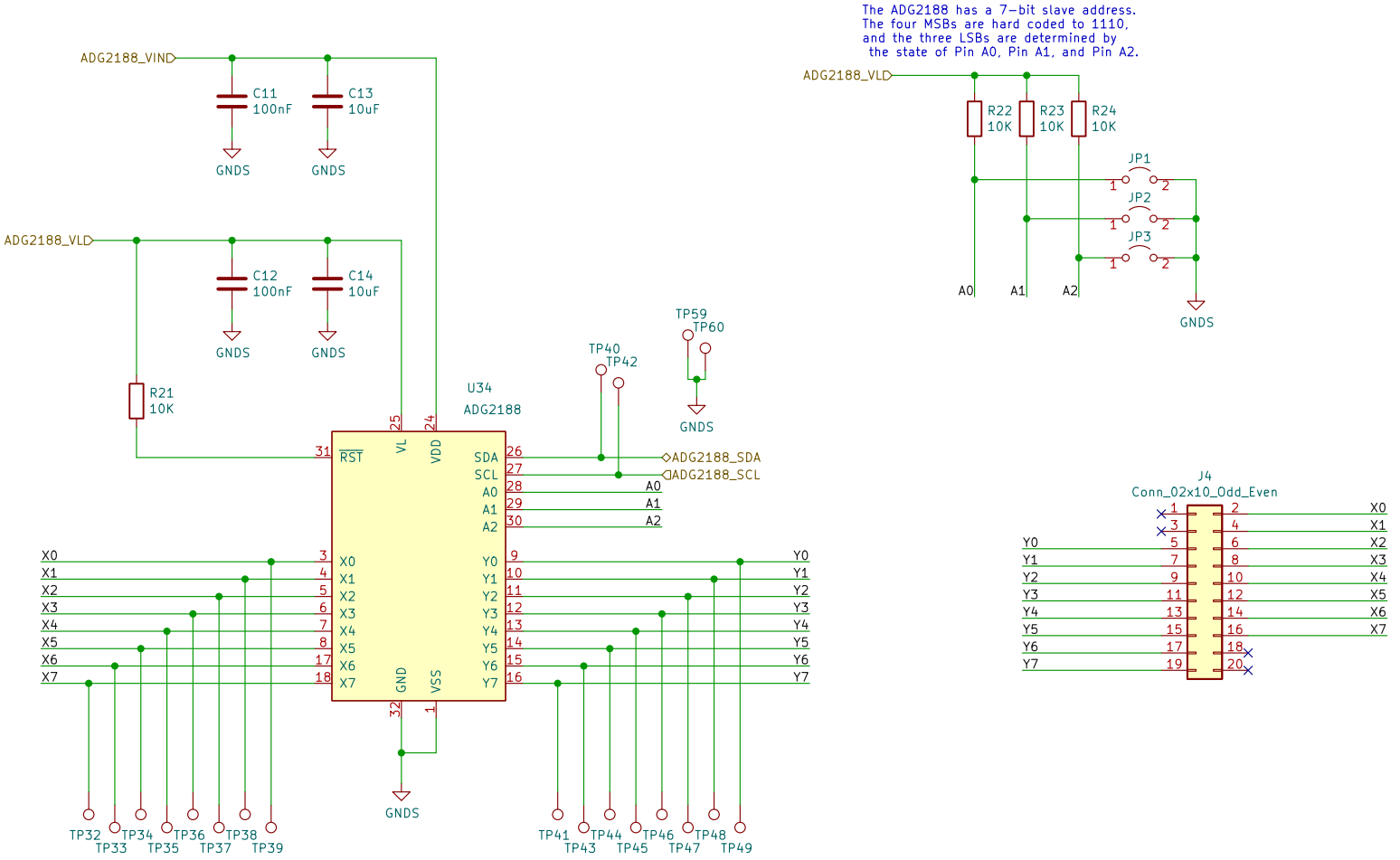


Created by C Sutton

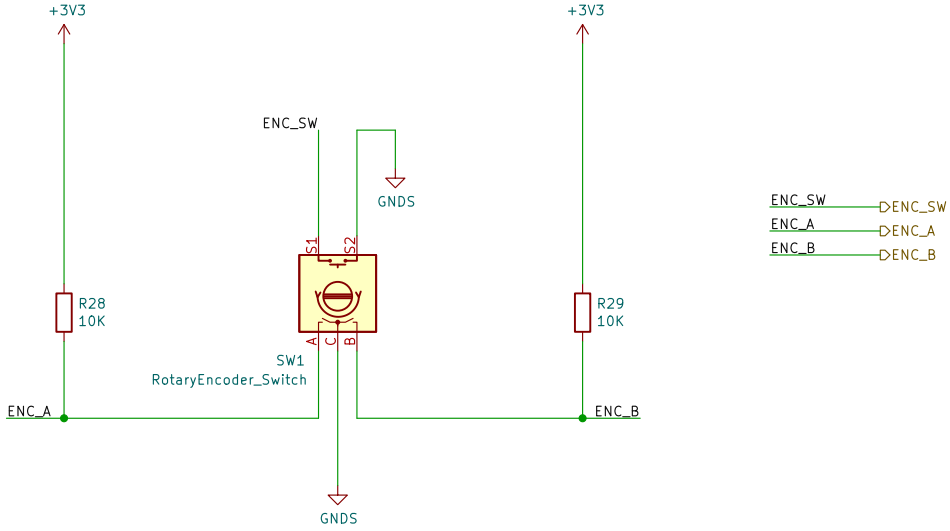
Sheet: /PSU/2_42Inch_OLED_LDO/
File: 2_42Inch_OLED_LDO.kicad_sch

Title: PSU – LDO 3.3V @ 250mA

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 3/47



Created by C Sutton		
Sheet: /CrossPoint Output Switching/		
File: SequencerOutputs.kicad_sch		
Title: Crosspoint Keyboard Switching		
Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 4/47



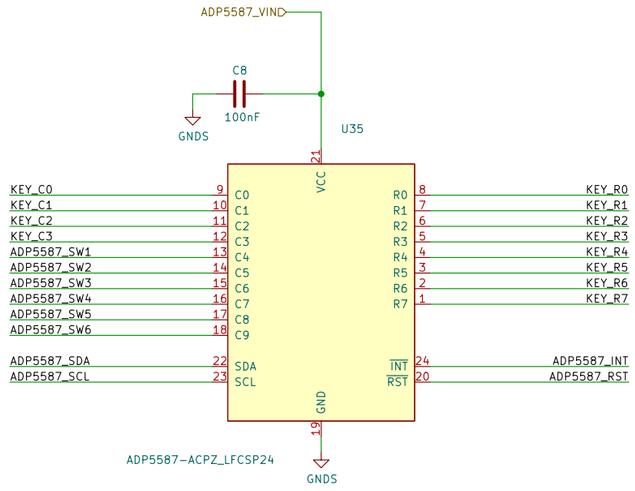
Created by C Sutton

Sheet: /MCU/Encoder/
File: Encoder.kicad_sch

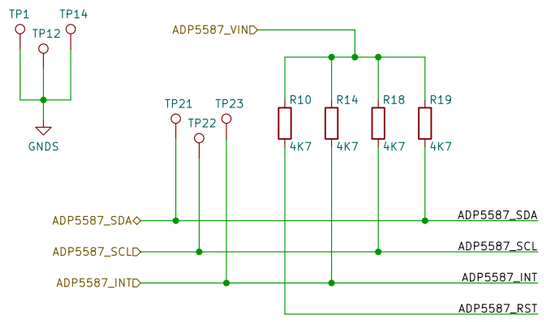
Title: Encoder

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 5/47

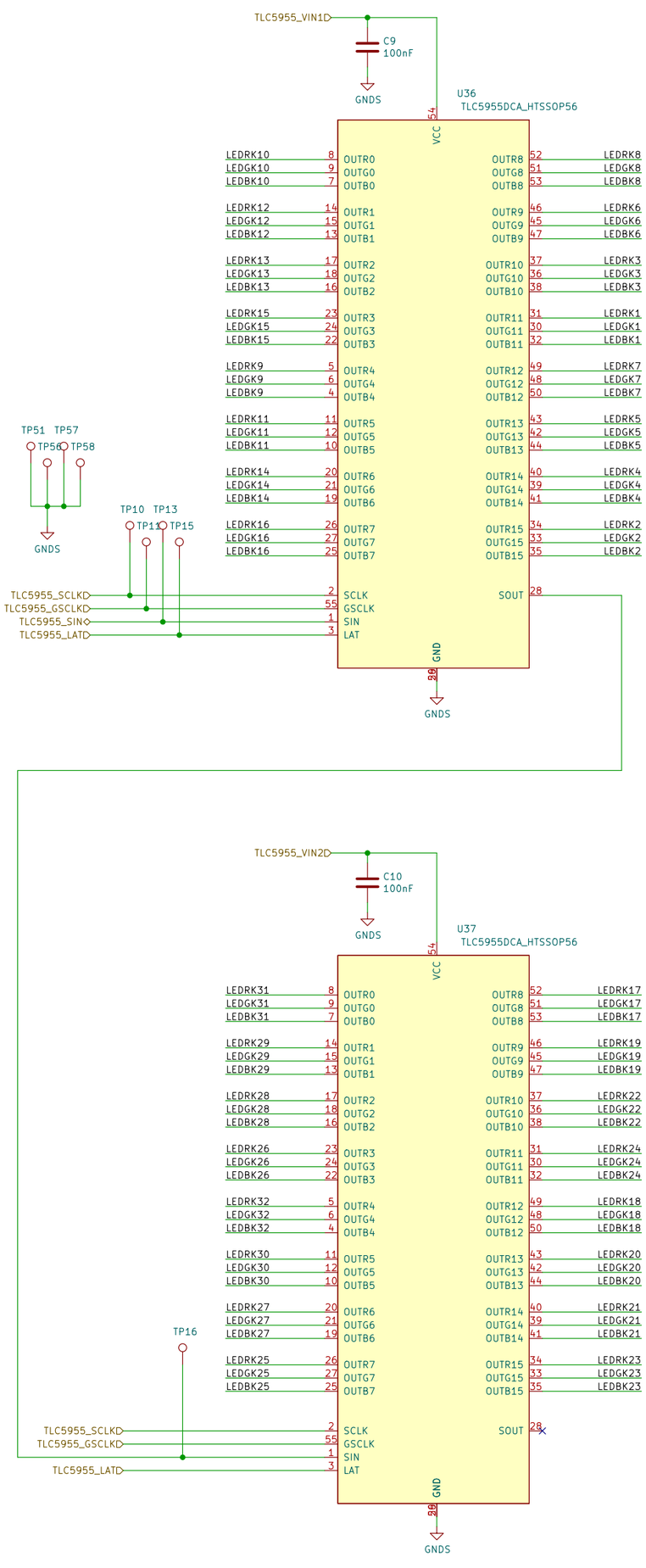
KEYSCAN MUX IC



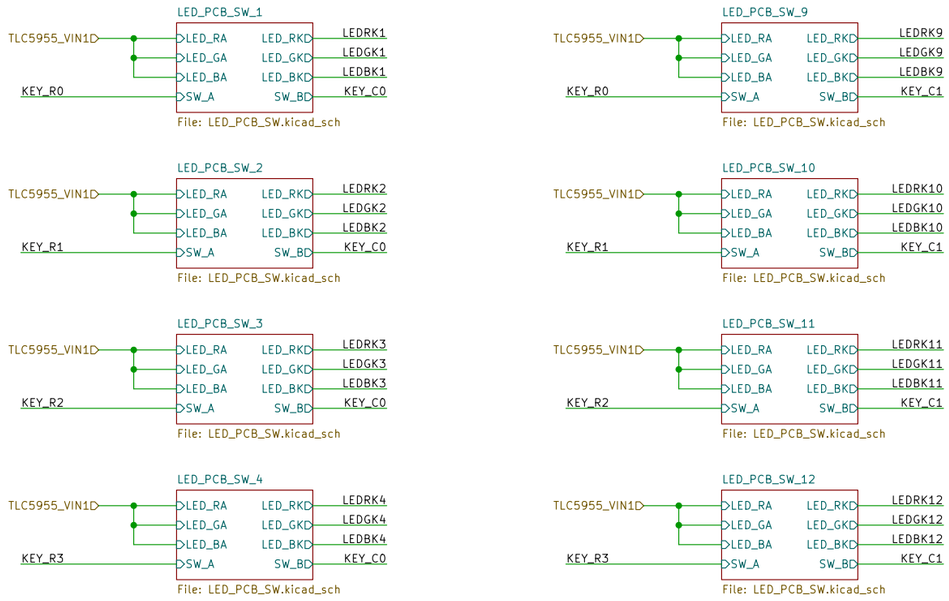
KEYSCAN MUX I2C



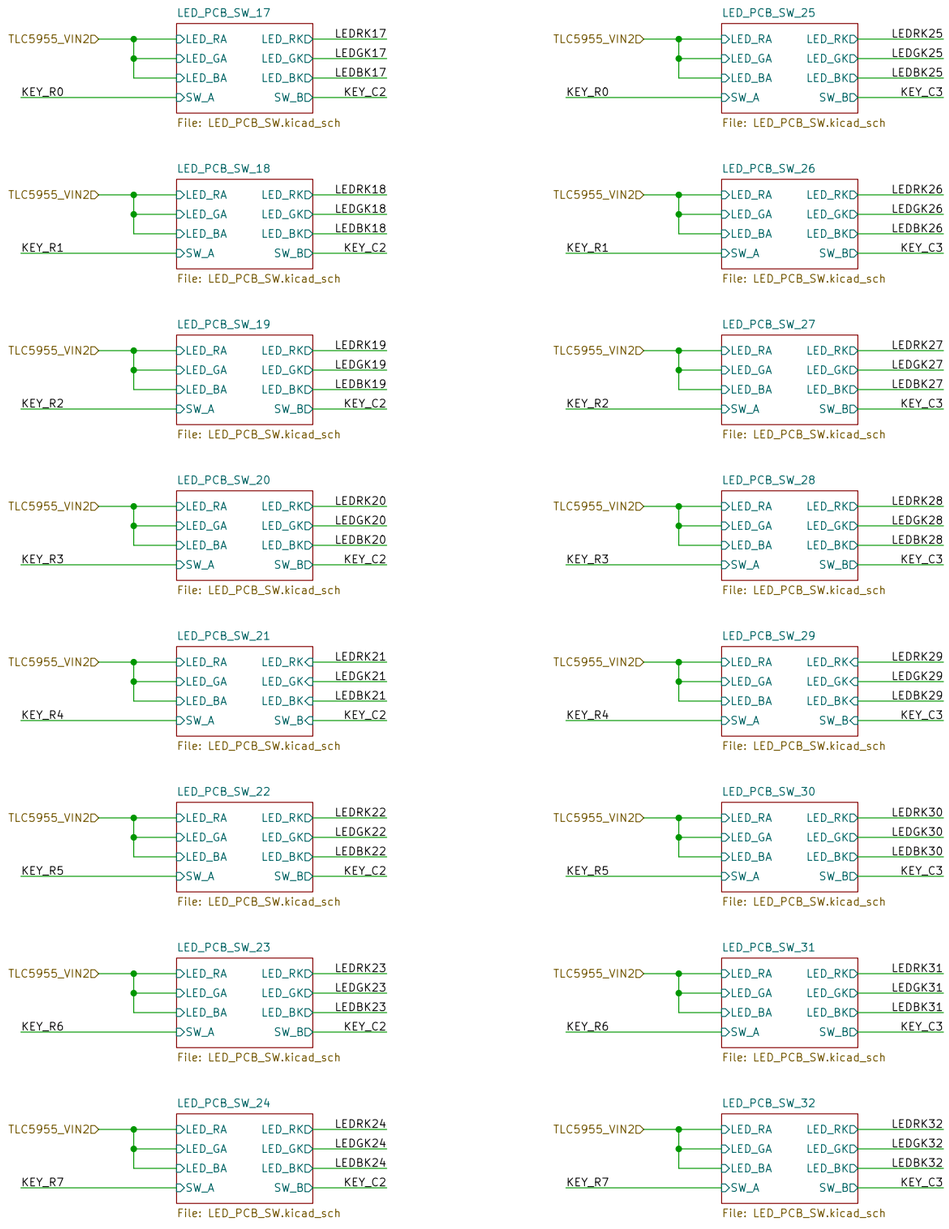
RGB LED DRIVERS



INPUT KEYS AND RGB LED MATRIX – 1x16 – BOTTOM ROW



INPUT KEYS AND RGB LED MATRIX – 1x16 – TOP ROW

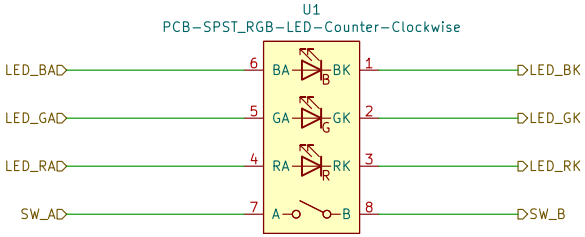


Designed by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/
File: SequencerInputs.kicad_sch

Title: Input Keyscan and RGB LED Driver

Size: A2	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 6/47

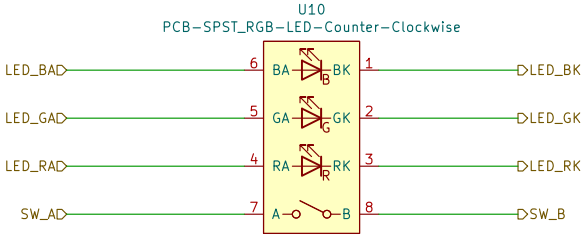


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_1/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 7/47

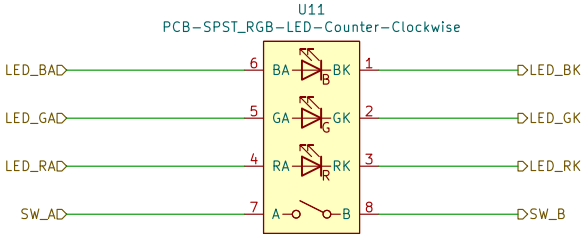


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_10/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 8/47

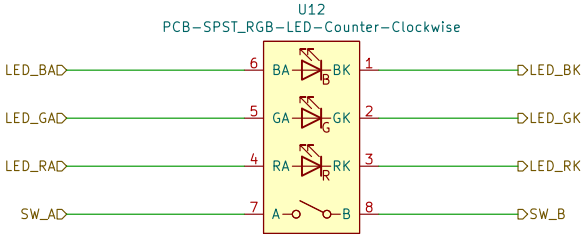


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_11/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 9/47

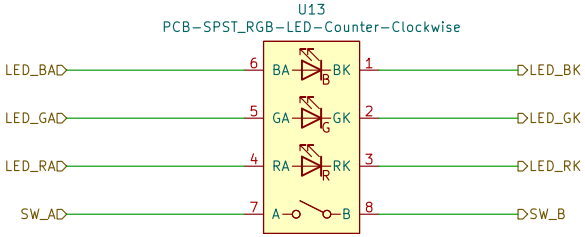


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_12/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 10/47

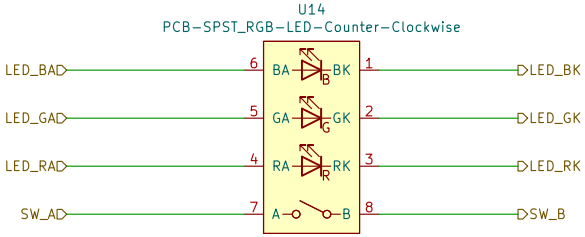


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_13/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 11/47

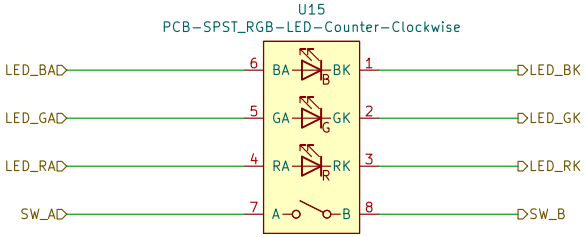


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_14/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 12/47

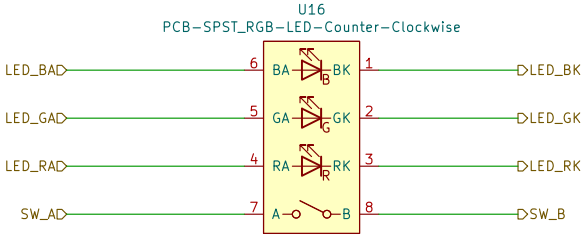


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_15/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 13/47

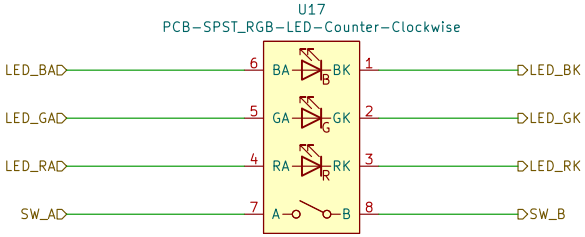


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_16/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 14/47

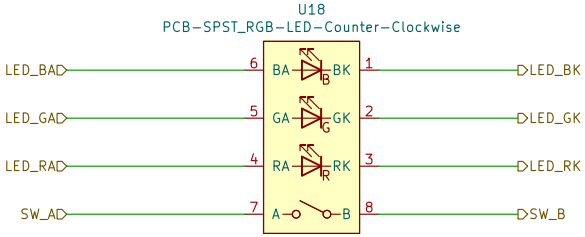


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_17/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 15/47

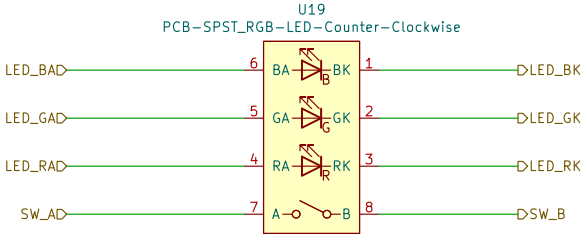


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_18/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 16/47

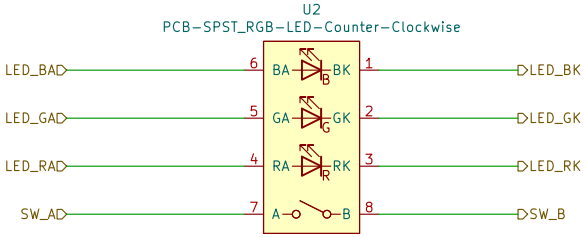


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_19/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 17/47

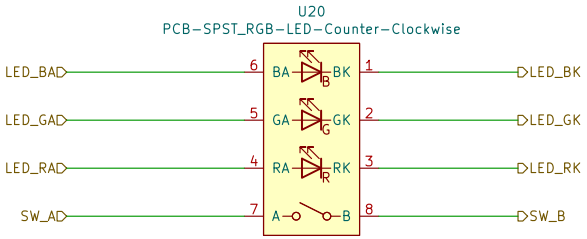


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_2/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 18/47

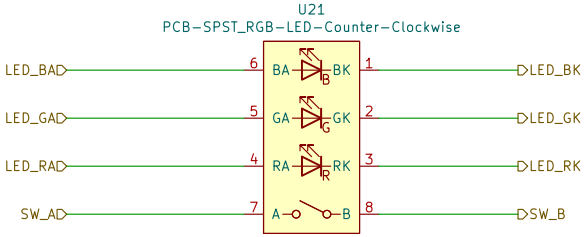


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_20/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 19/47

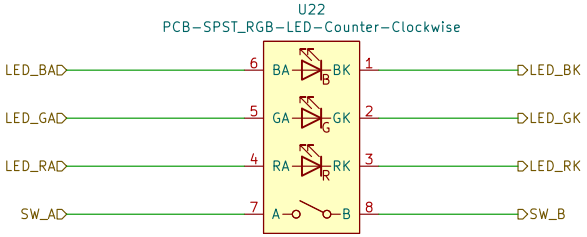


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_21/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 20/47

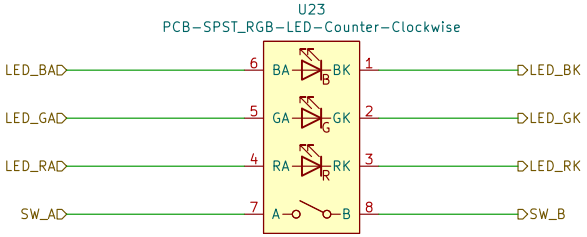


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_22/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 21/47

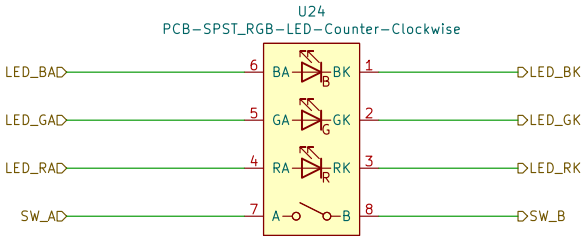


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_23/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 22/47

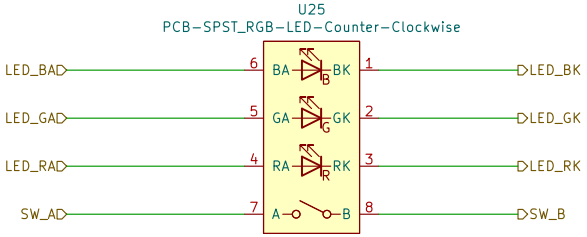


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_24/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 23/47

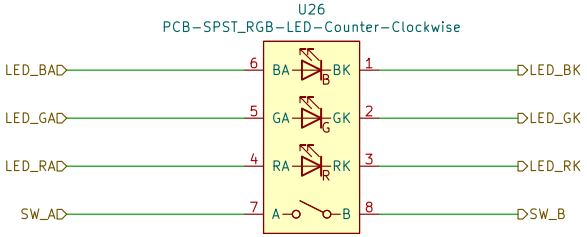


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_25/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 24/47

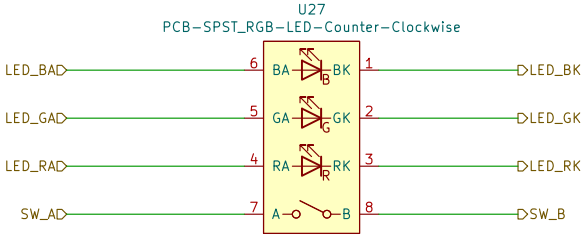


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_26/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 25/47

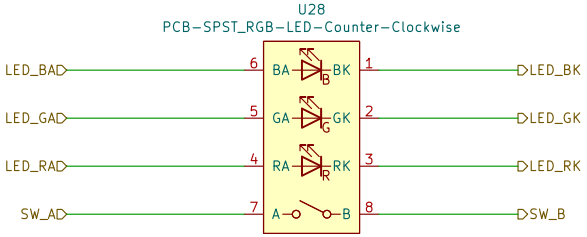


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_27/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 26/47

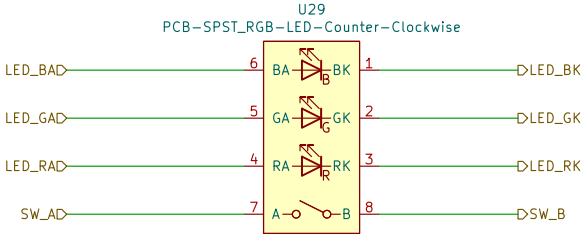


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_28/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 27/47

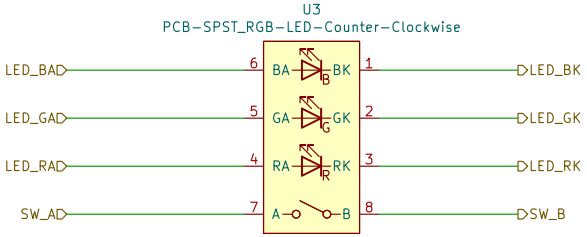


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_29/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 28/47

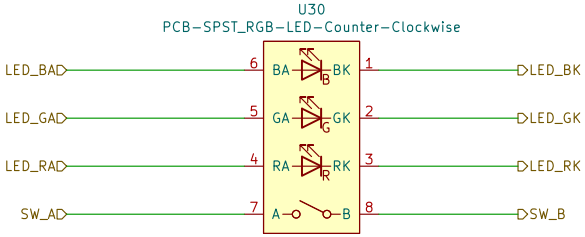


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_3/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 29/47

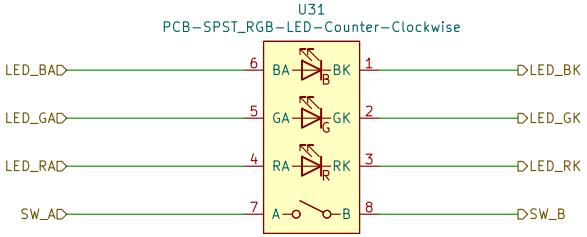


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_30/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 30/47

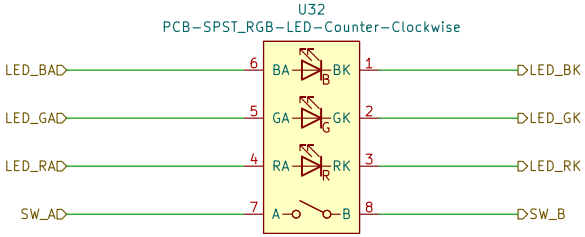


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_31/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 31/47

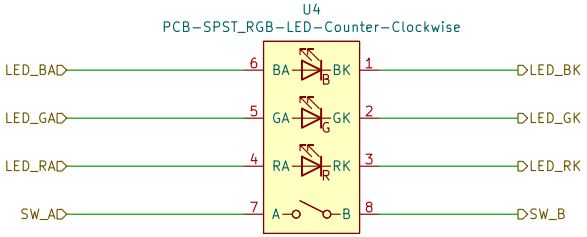


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_32/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 32/47

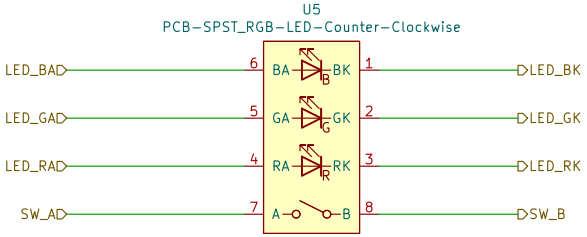


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_4/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 33/47

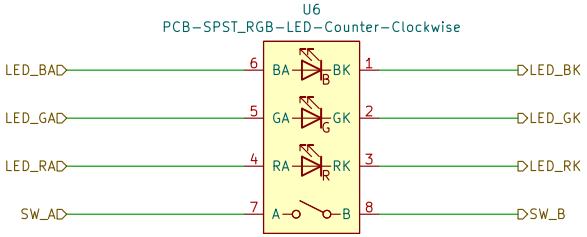


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_5/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 34/47

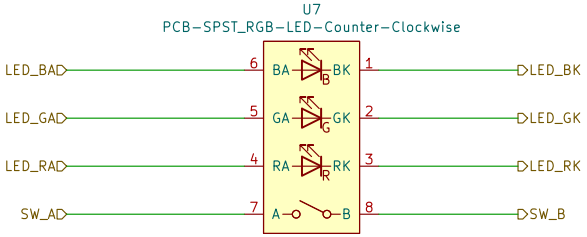


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_6/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 35/47

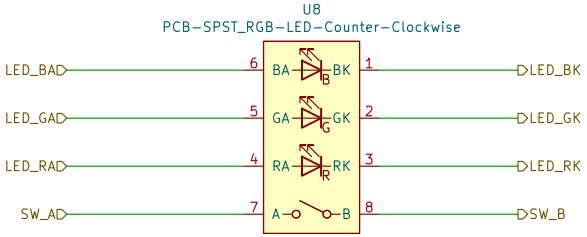


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_7/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 36/47

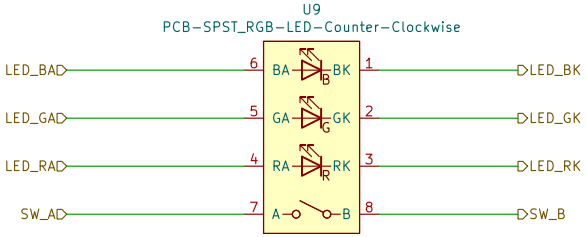


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_8/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 37/47

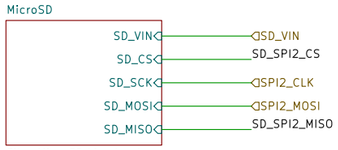


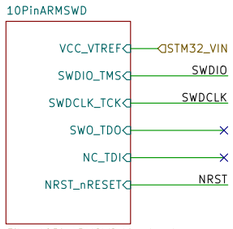
Created by C Sutton

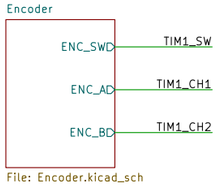
Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_9/
File: LED_PCB_SW.kicad_sch

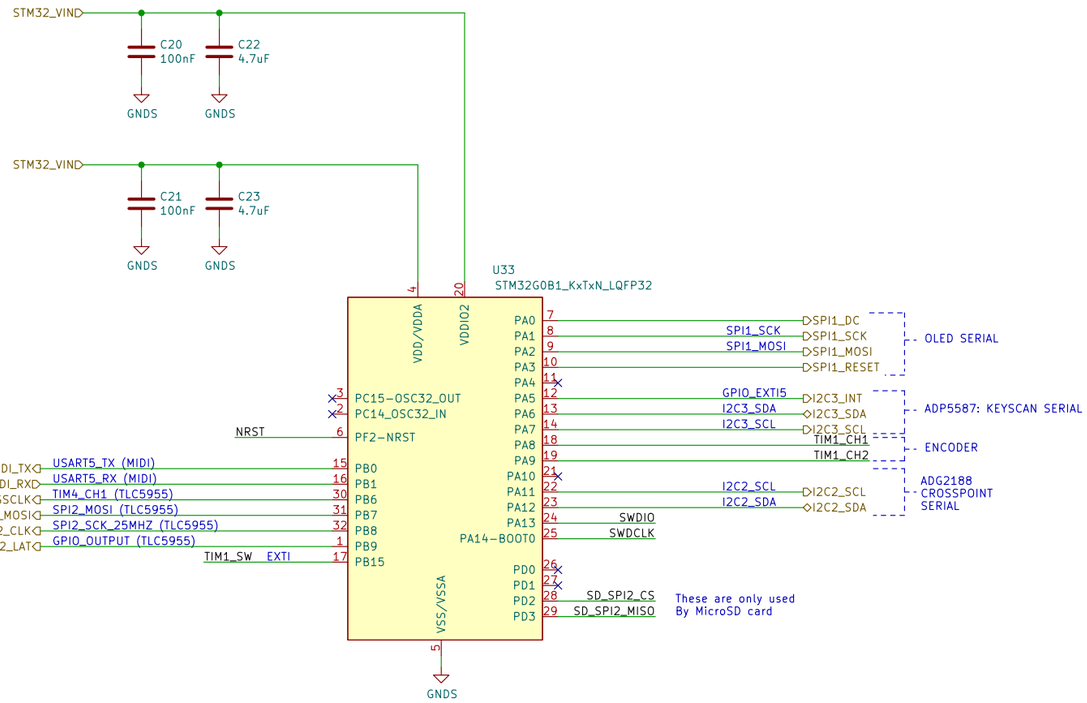
Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 38/47



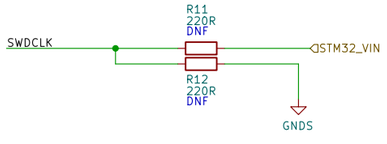






Resistors allow pin sharing with SWDCLK
Boot mode configuration is latched on the 4th rising edge of SYSCLK after a reset.

Leave unset by default.
Set if explicit setting needed.
e.g. pulldown *might* be required for boot to FLASH

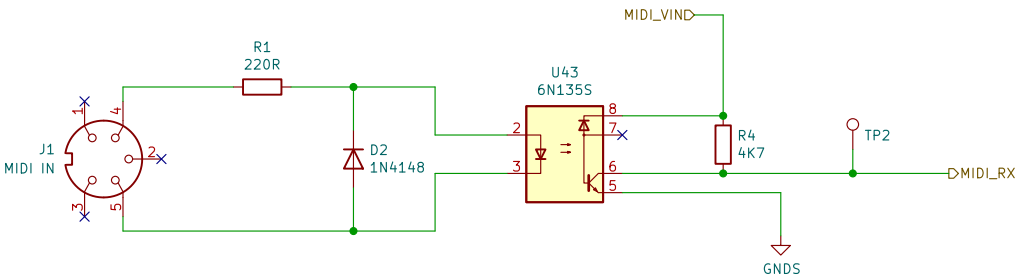


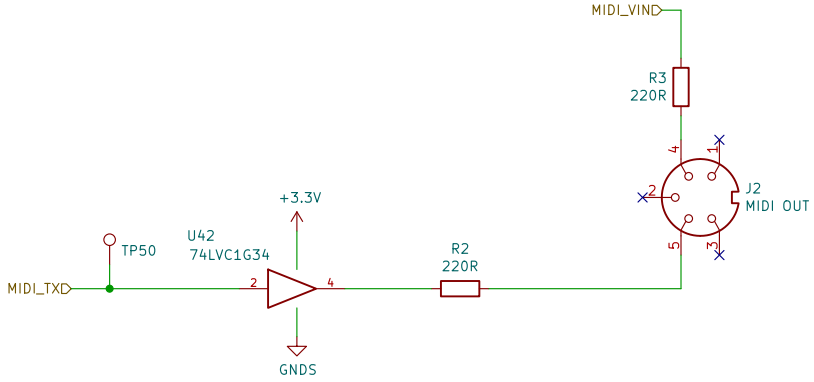
Created by C Sutton

Sheet: /MCU/
File: MCU.kicad_sch

Title: Microcontroller

Size: A3	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 39/47





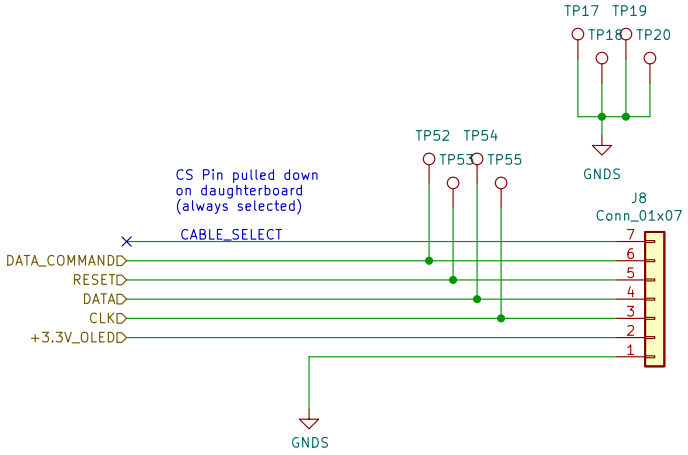
Created by C Sutton

Sheet: /MIDI Interface/

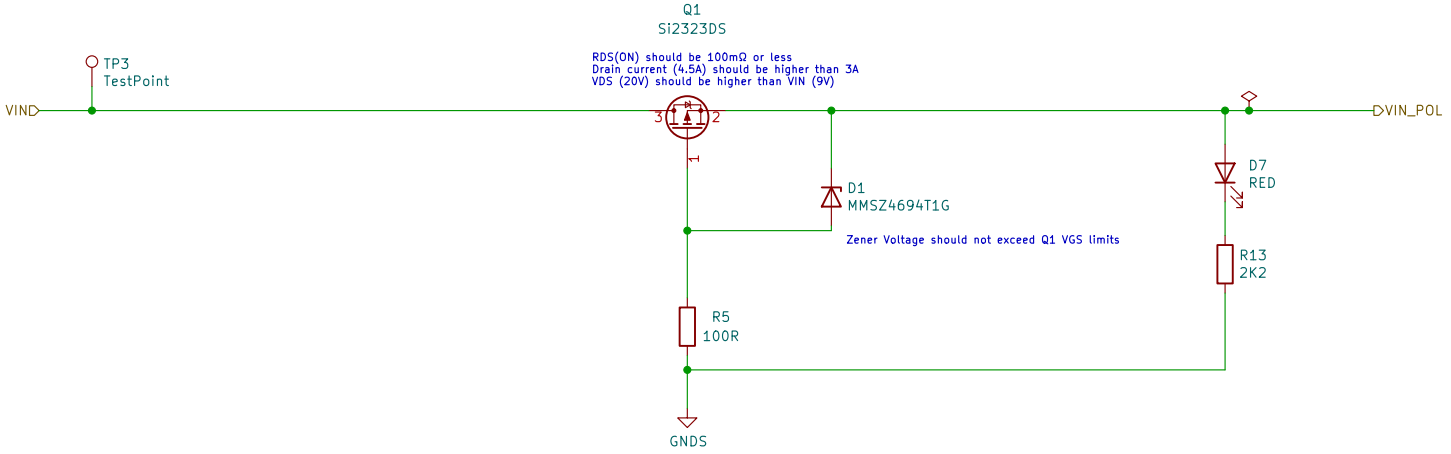
File: MIDI.kicad_sch

Title: MIDI Interface

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A.	kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1	Id: 40/47



Created by C Sutton		
Sheet: /OLED_Display/		
File: OLED_Display.kicad_sch		
Title: 2.42" SSD1309 OLED Display Module		
Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116~ubuntu20.04.1		Id: 41/47



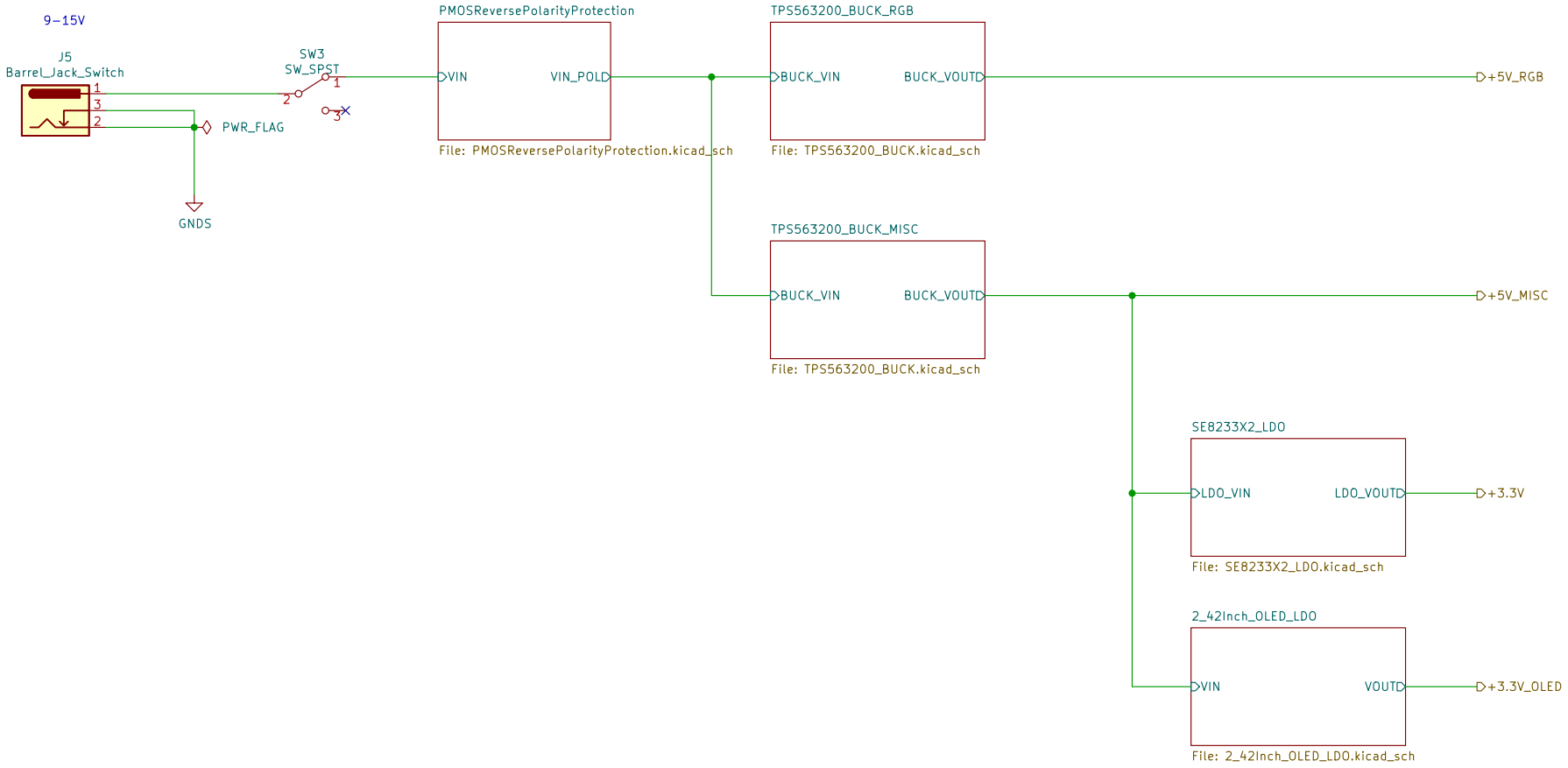
Created by C Sutton

Sheet: /PSU/PMOSReversePolarityProtection/

File: PMOSReversePolarityProtection.kicad_sch

Title: PSU – Polarity Protection

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 42/47

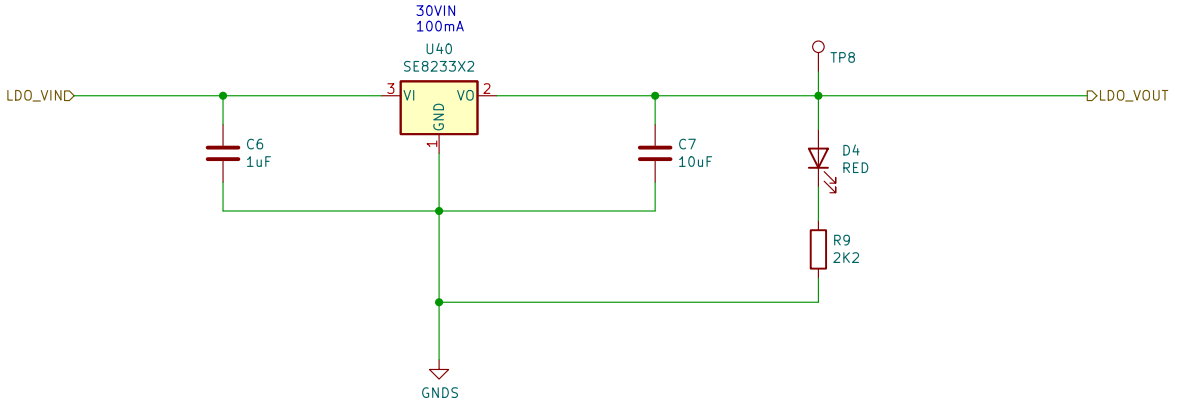


Created by C Sutton

Sheet: /PSU/
File: PSU.kicad_sch

Title: PSU – 5V and 3.3V

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 43/47



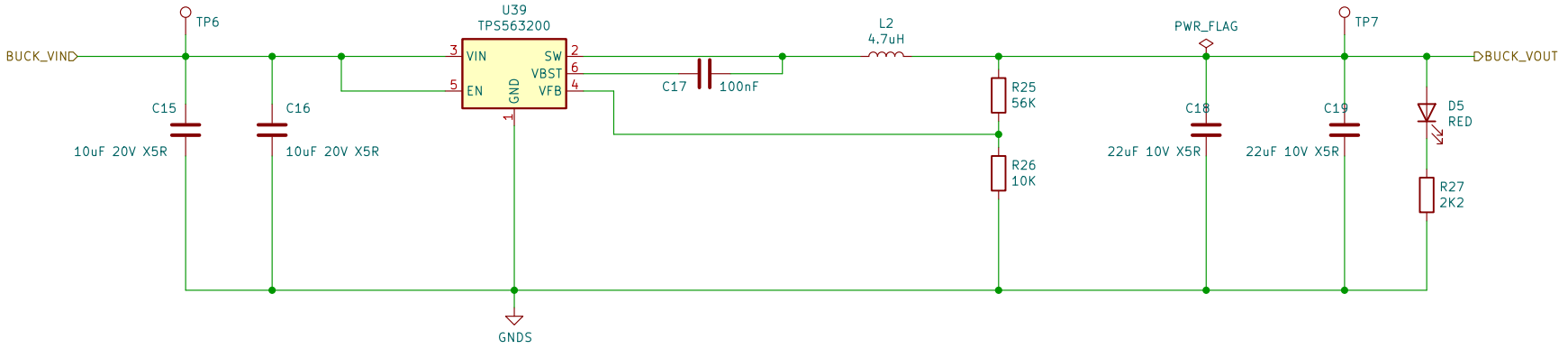
Created by C Sutton

Sheet: /PSU/SE8233X2_LDO/

File: SE8233X2_LDO.kicad_sch

Title: PSU – LDO 3.3V @ 100mA

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 44/47



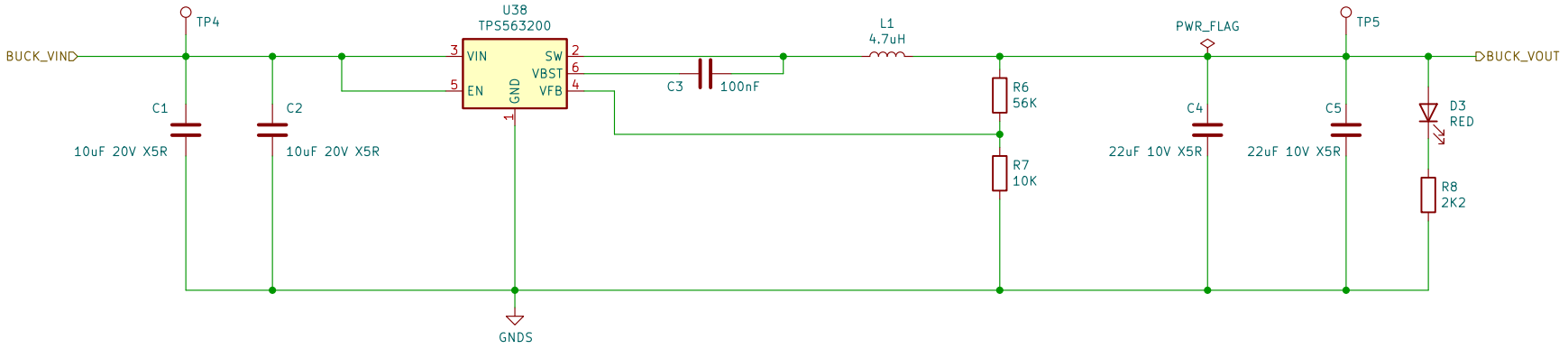
Created by C Sutton

Sheet: /PSU/TPS563200_BUCK_MISC/

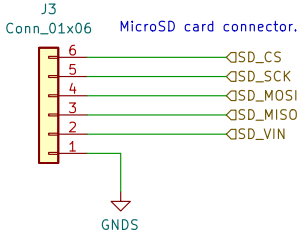
File: TPS563200_BUCK.kicad_sch

Title: PSU – TPS563200 Buck Regulator

Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 45/47



Created by C Sutton		
Sheet: /PSU/TPS563200_BUCK_RGB/		
File: TPS563200_BUCK.kicad_sch		
Title: PSU – TPS563200 Buck Regulator		
Size: A4	Date: 2021-06-05	**Rev: B**
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 46/47



Sheet: /MCU/MicroSD/		
File: MicroSD.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 6.0.4-6f826c9f35~116~ubuntu20.04.1		Id: 47/47