Power Input

Power_Input.sch

POS3P3 Power Supply

POS3P3_Power_Supply.sch

Microcontroller Programming

Microcontroller_Programming.sch

WiFi Module

Wi_Fi_Module.sch

USB UART Isolation

USB_UART_Isolation.sch

USB UART Bridge

USB_UART_Bridge.sch

Panel Data Connectors

Panel_Data_Connectors.sch

LED POS5 Monitoring

LED_POS5_Monitoring.sch

Microcontroller Power

Microcontroller_Power.sch

Microcontroller A

Microcontroller_A.sch

Microcontroller B

Microcontroller_B.sch

External SRAM

External_SRAM.sch

External Flash 1

External_Flash_1.sch

External Flash 2

External_Flash_2.sch

External Flash 3

External_Flash_3.sch

External Flash 4

External_Flash_4.sch

External Flash 5

External_Flash_5.sch

External Flash 6

External_Flash_6.sch

External Flash 7

External_Flash_7.sch

External Flash 8

External_Flash_8.sch

Status LEDs 1

Status_LEDs_1.sch

Panel Data Level Shifters 1

Panel_Data_Level_Shifters_1.sch

Panel Data Level Shifters 2

Panel_Data_Level_Shifters_2.sch

Panel Data Level Shifters 3

Panel_Data_Level_Shifters_3.sch

Test Points

Test_Points.sch

Pushbuttons

Pushbuttons.sch

POS5 Power Supply

POS5_Power_Supply.sch

Mechanical

Mechanical.sch

Internal Rail Monitoring

Internal_Rail_Monitoring.sch

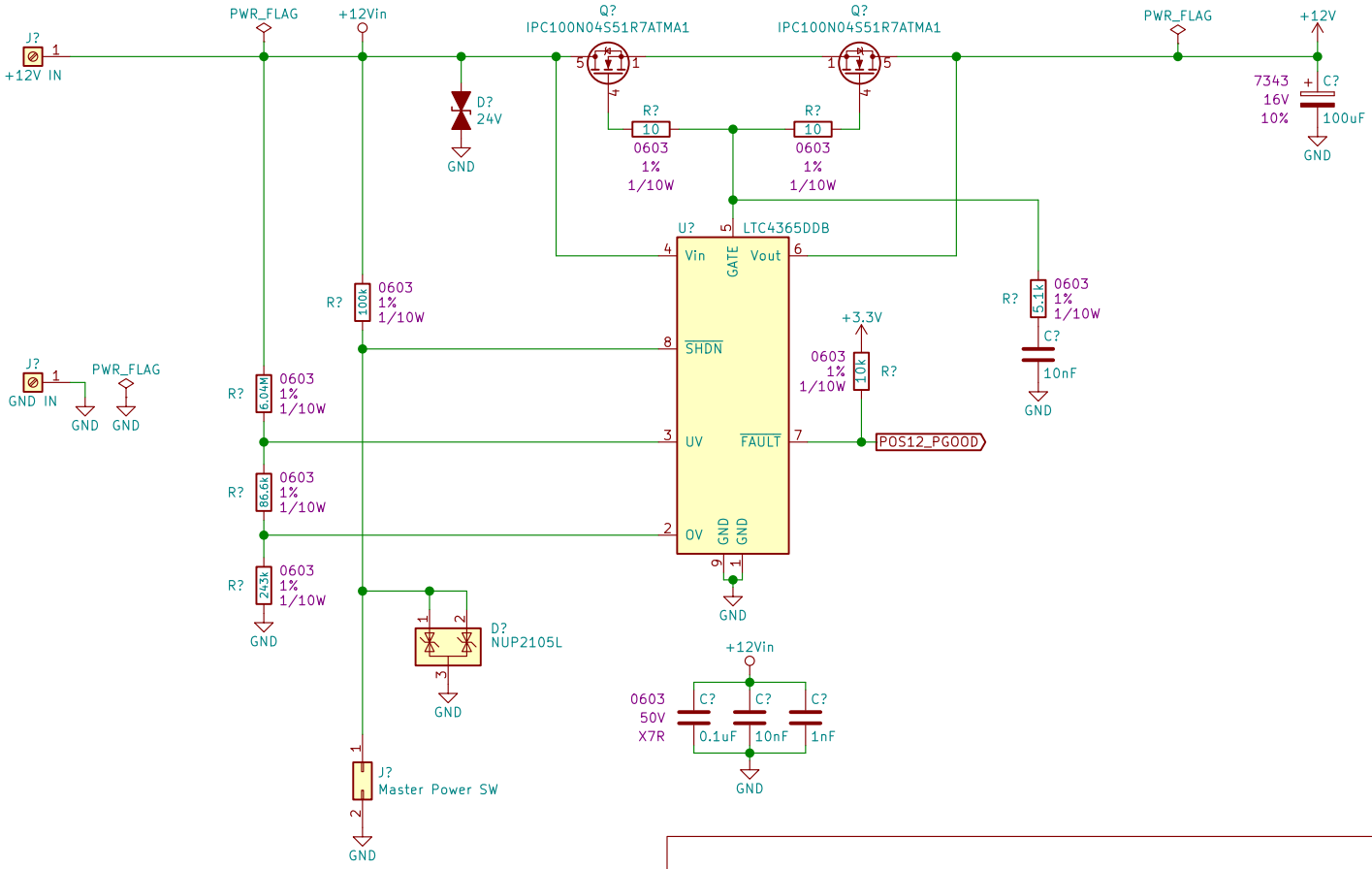
To Do List:
* Mechanical sheet
* Decide on input power supply (AC/DC)
* Add status LEDs, PGOOD stuff
* Add small 5V supply for level shifters (LDO? Charge pump? Small Buck?)
* Add voltage rail ADC dividers/filters
* Power board fan control?
* ESD protection on input and output signals
* FIX LEVEL SHIFTER VOLTAGE RAIL ISSUE
* Add tank cap for micro
* AND OE (PWM AND Force disable)
* Add graphical items to certain sheets (ESD warning, heat, etc)
* Add MU Logo to each sheet
* Add Titles to each sheet
* Add relevant design notes/routing notes to sheets
* Add test points sheet
* Re-order sheets
* Wire everything to Micro
* Assign Refdes's
* Draw custom footprints
* Assign footprints
* Assign Digi-Key Partnumbers
* Run ERC, resolve errors
* Add firmware notes sheet
* Add COM port settings notes to USB sheet
* Generate netlist
* Generate BOM
* Layout PCB

Sheet: /
File: LED_Display_Controller.sch

Title:

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 1/30

Power Input



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Size: A	Date:	**Rev:**
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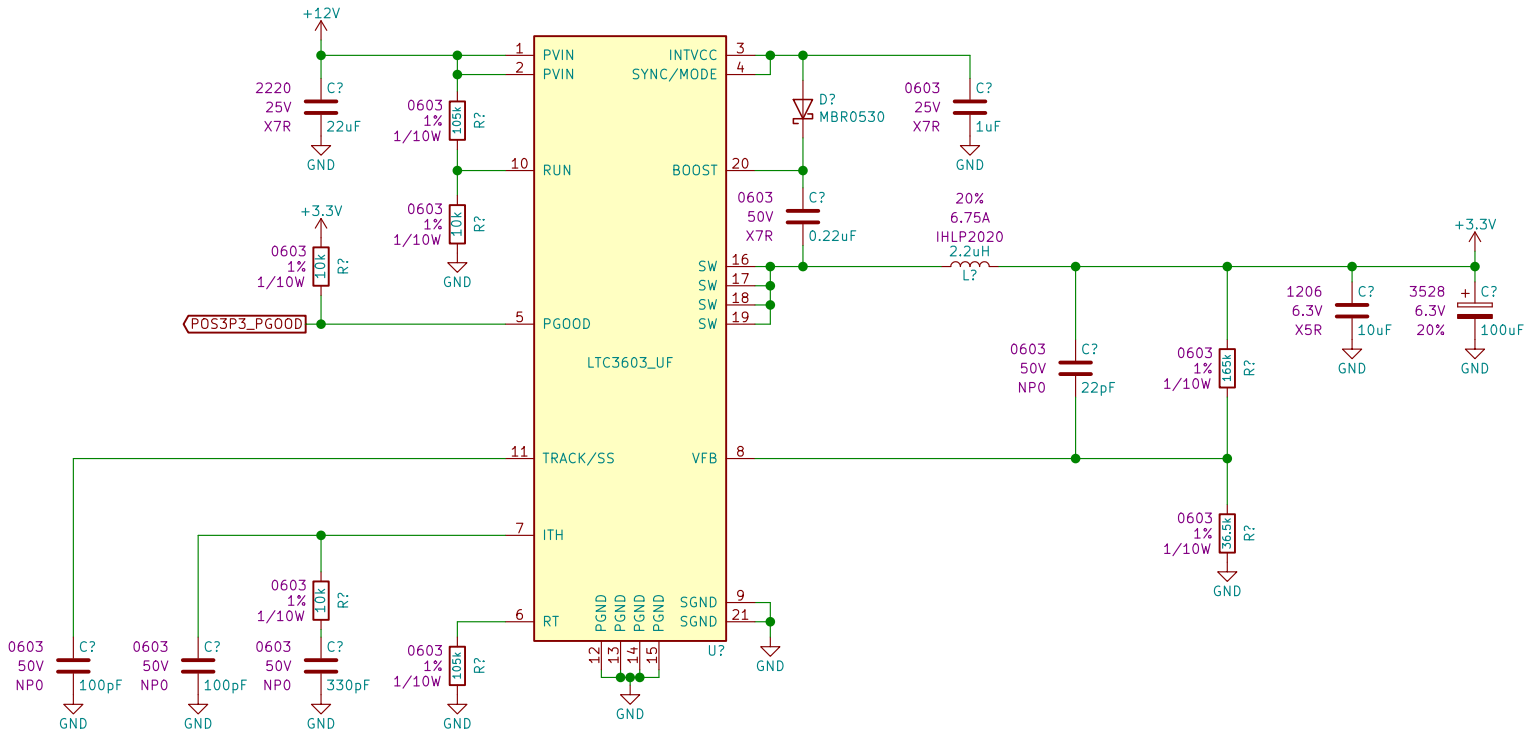

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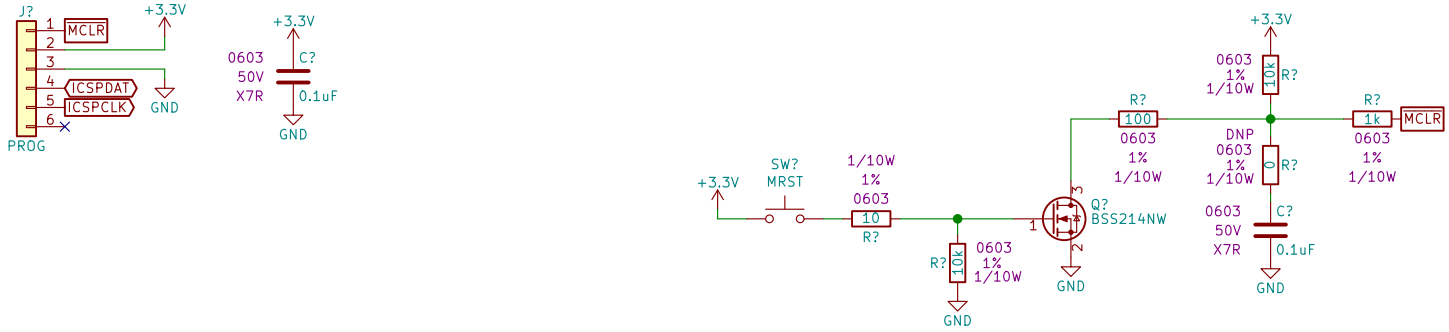

Sheet: /Microcontroller Programming/		
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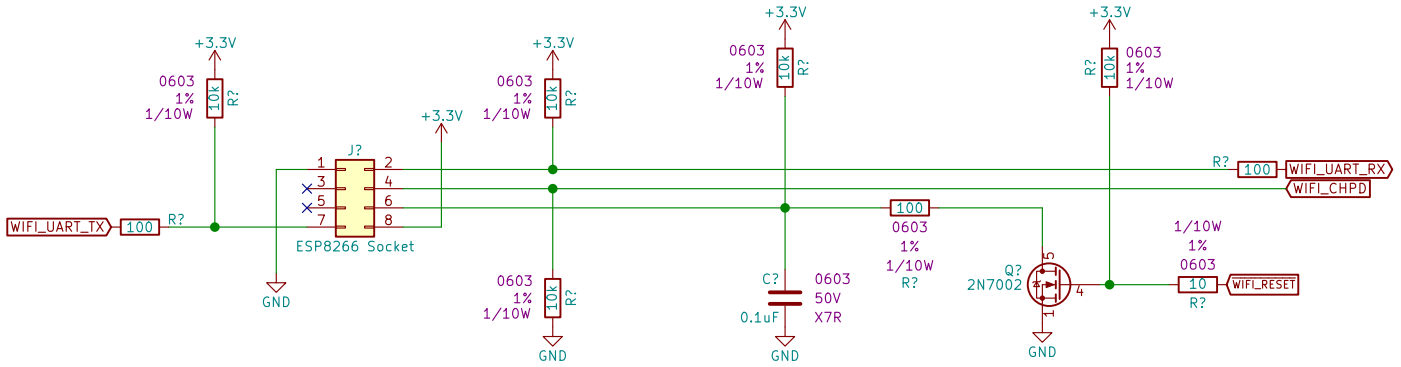
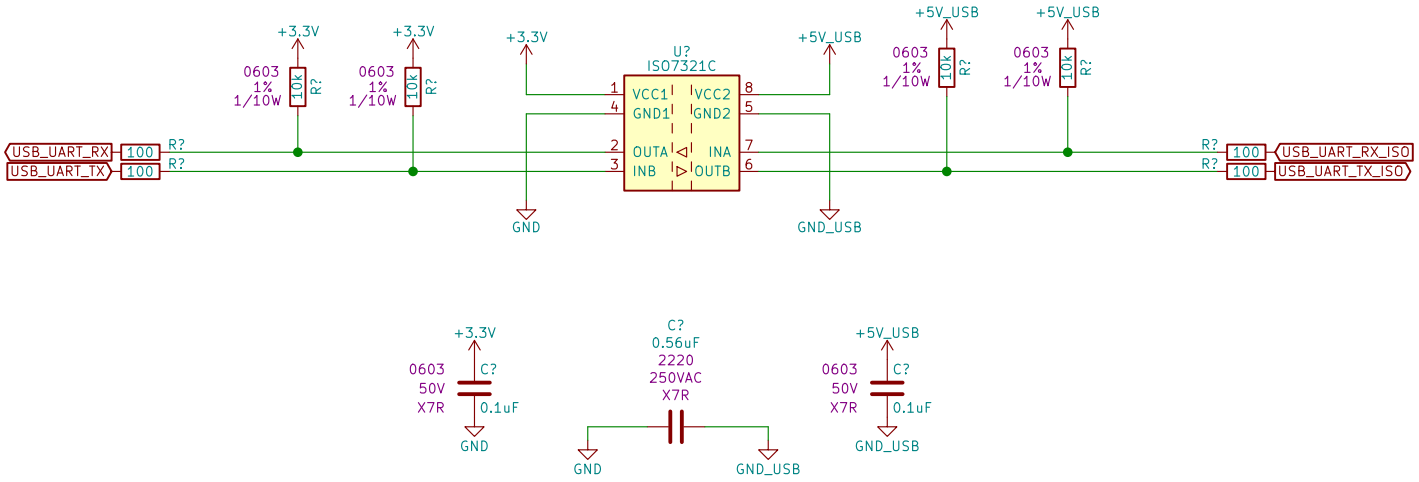


ESP8266 Pinout does not match default KiCad pin socket footprint.
Alter the pin numbers in layout

Sheet: /WiFi Module/		
File: Wi_Fi_Module.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 5/30



Sheet: /USB UART Isolation/		
File: USB_UART_Isolation.sch		
Title:		
Size: A	Date:	**Rev:**
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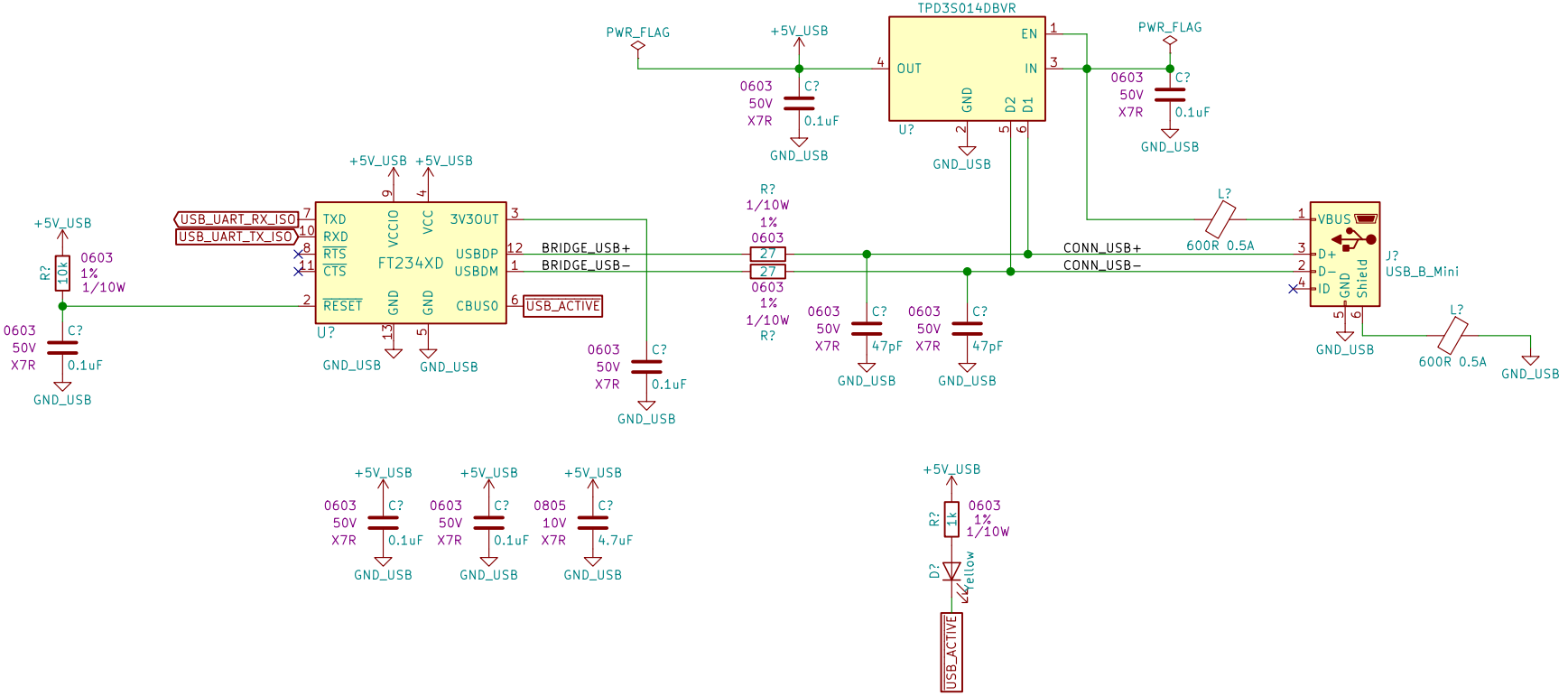

Sheet: /USB UART Bridge/		
File: USB_UART_Bridge.sch		
Title:		
Size: A	Date:	**Rev:**
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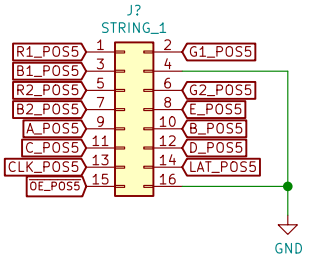
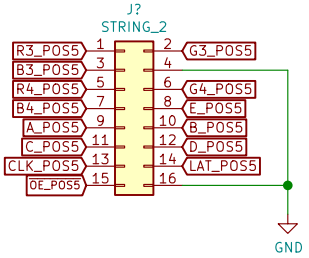
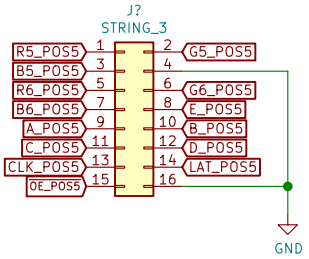
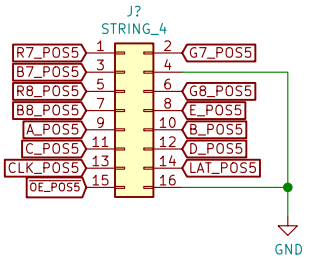
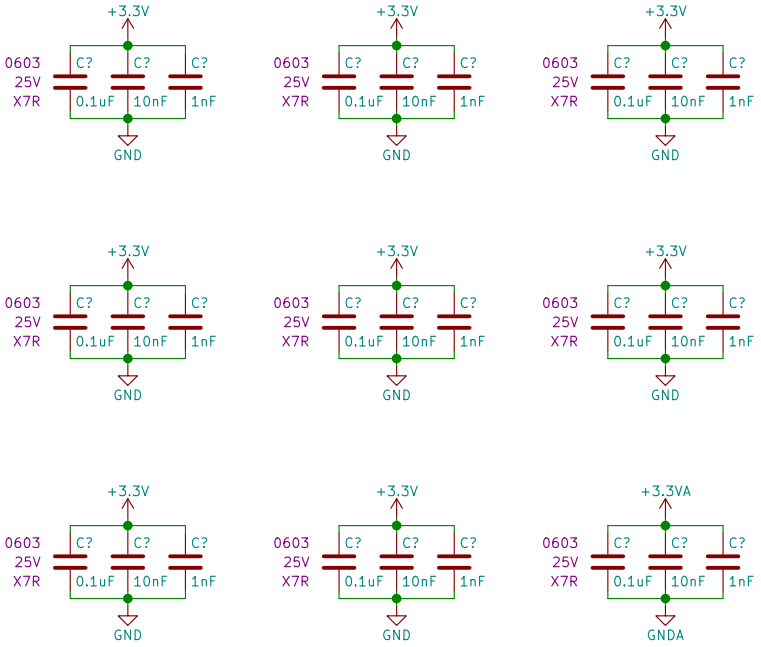


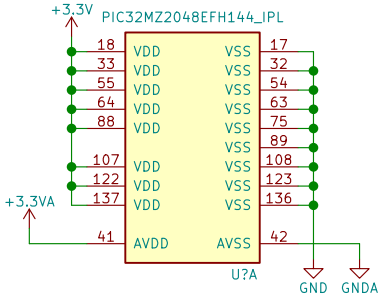


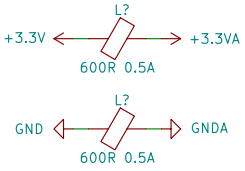




Sheet: /Panel Data Connectors/ File: Panel_Data_Connectors.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 8/30







Sheet: /Microcontroller Power/ File: Microcontroller_Power.sch		
Title:		
Size: A	Date:	**Rev:**
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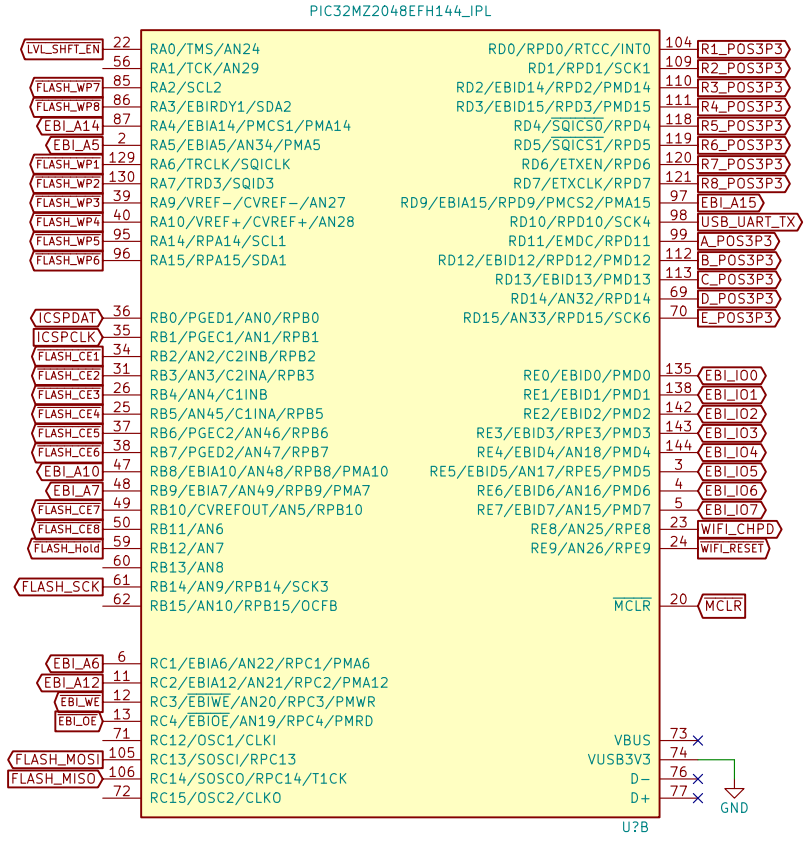
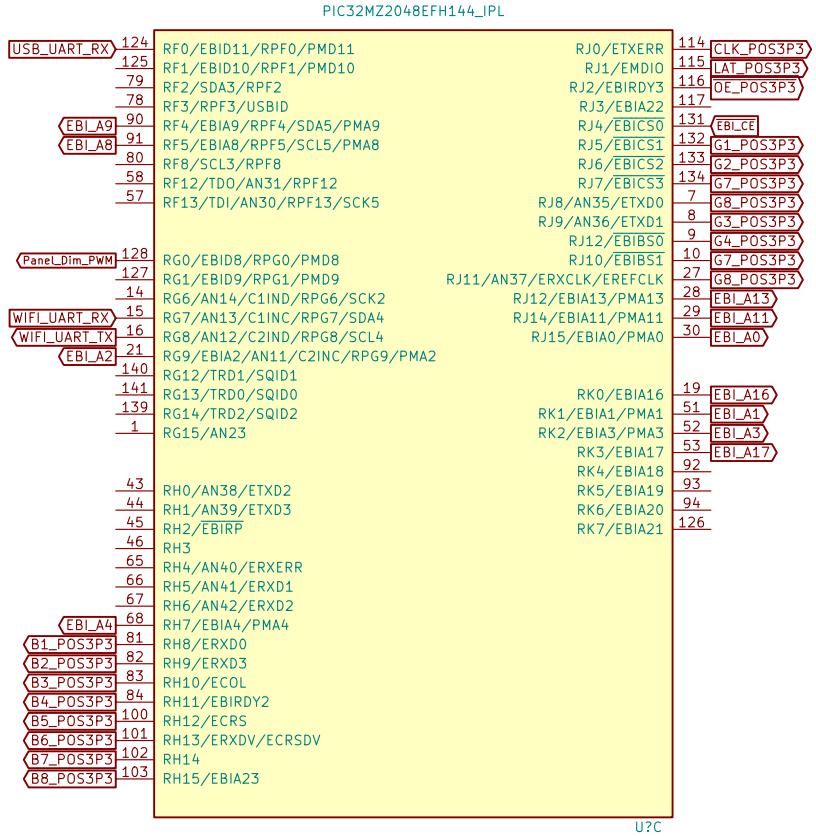


Sheet: /Microcontroller A/		
File: Microcontroller_A.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 10/30



Sheet: /Microcontroller B/		
File: Microcontroller_B.sch		
Title:		
Size: A	Date:	**Rev:**
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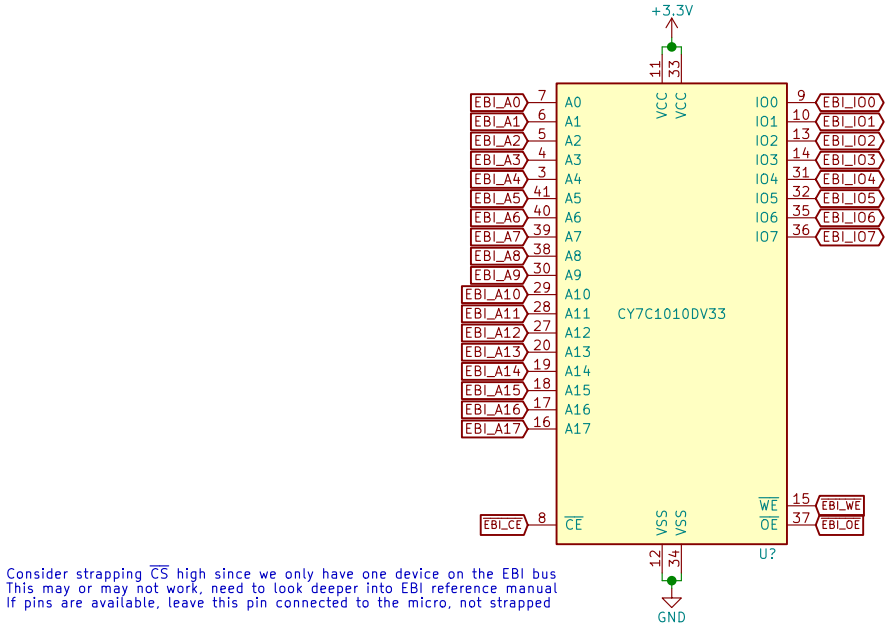
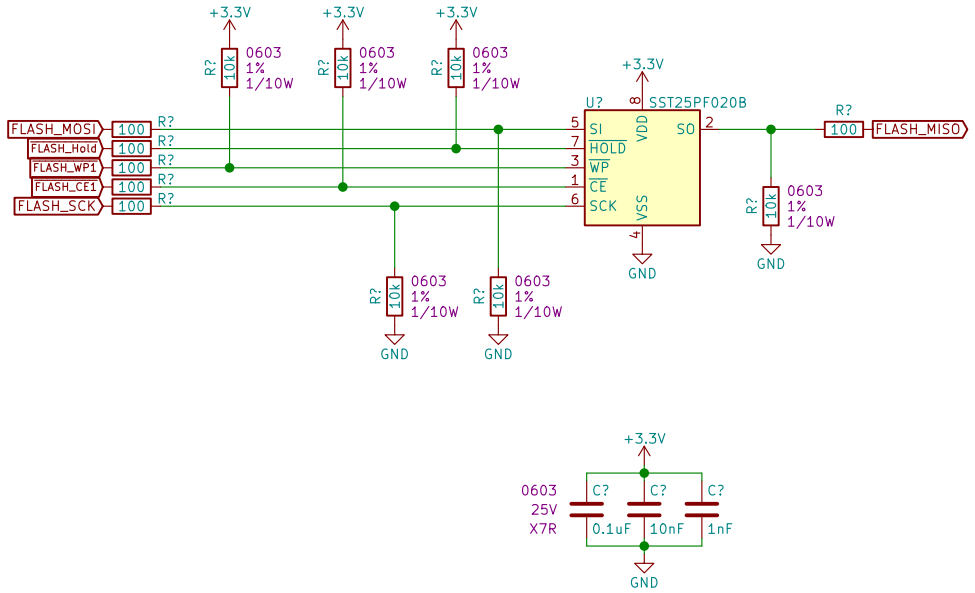


Sheet: /External SRAM/		
File: External_SRAM.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 12/30



Sheet: /External Flash 1/		
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Title:		
Size: A	Date:	**Rev:**
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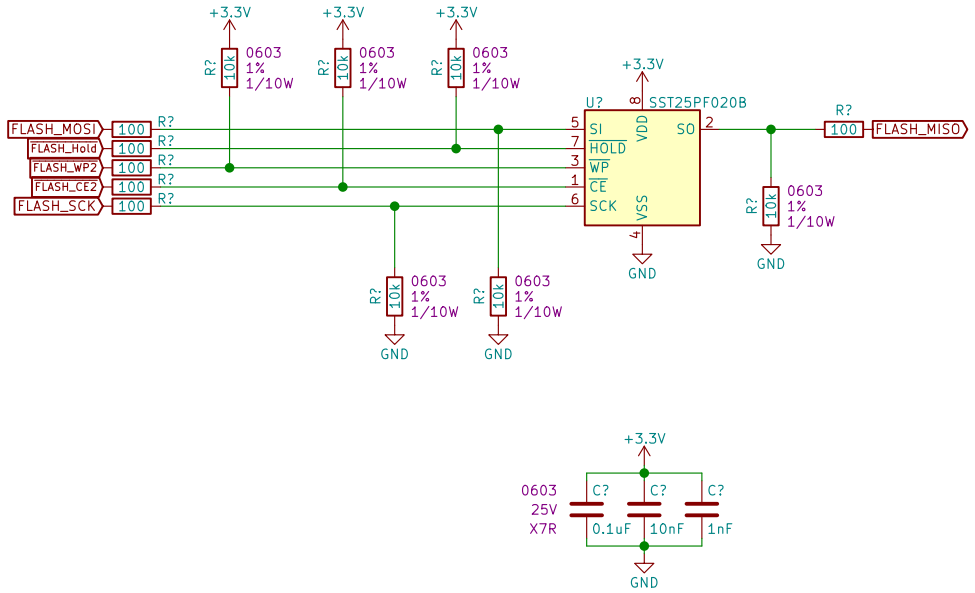

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Title:		
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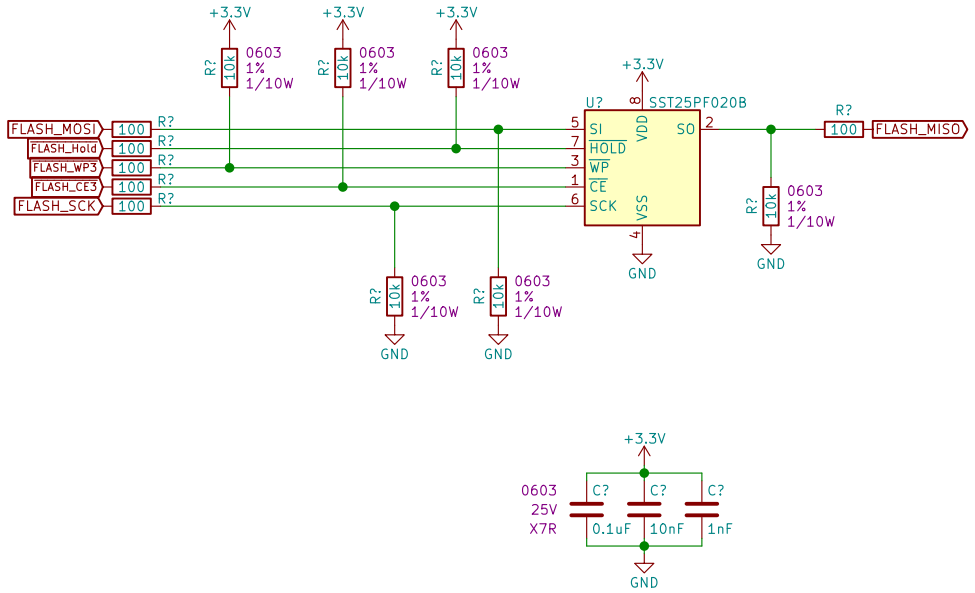

Sheet: /External Flash 3/		
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Title:		
Size: A	Date:	**Rev:**
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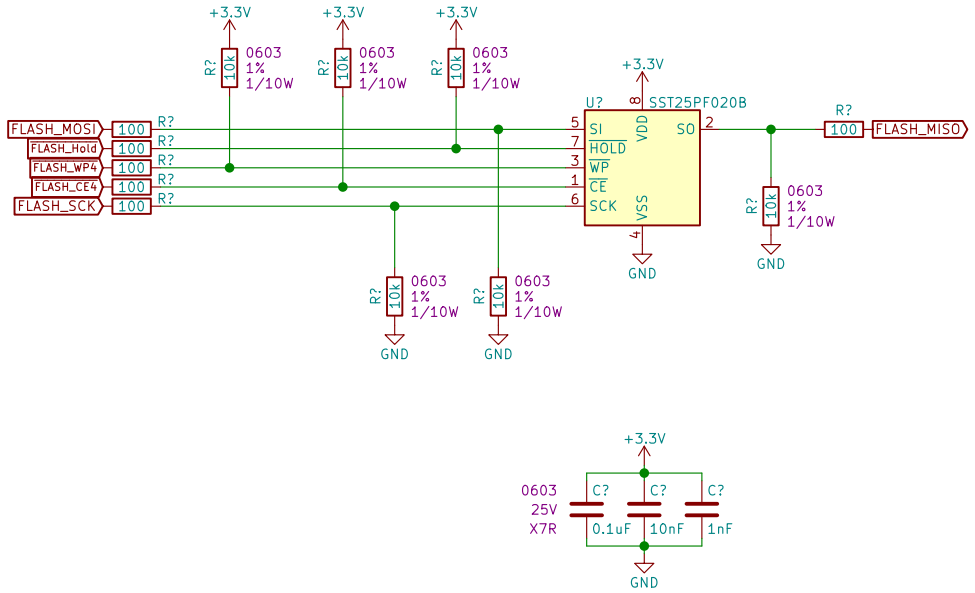

Sheet: /External Flash 4/		
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Title:		
Size: A	Date:	**Rev:**
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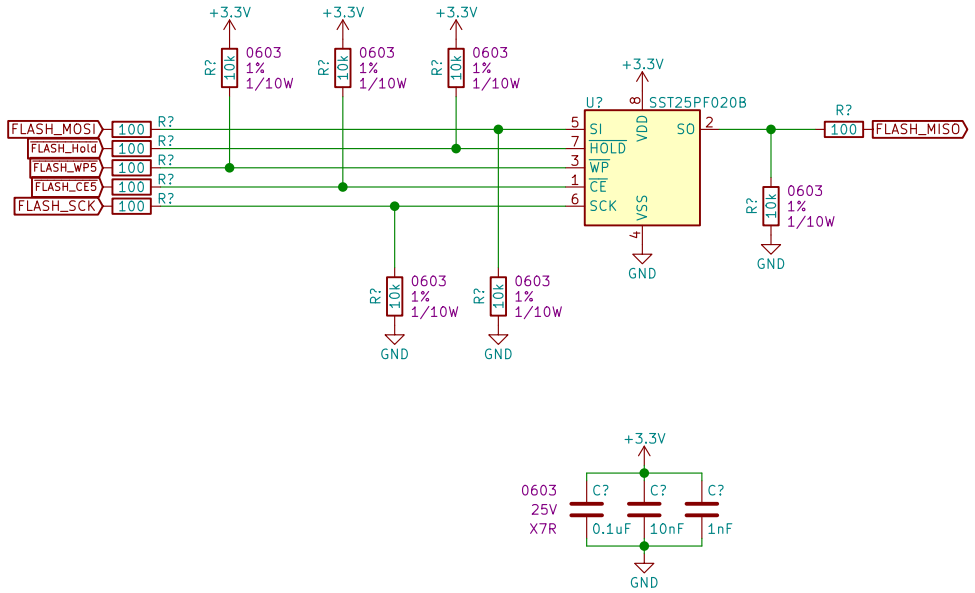

Sheet: /External Flash 5/		
File: External_Flash_5.sch		
Title:		
Size: A	Date:	**Rev:**
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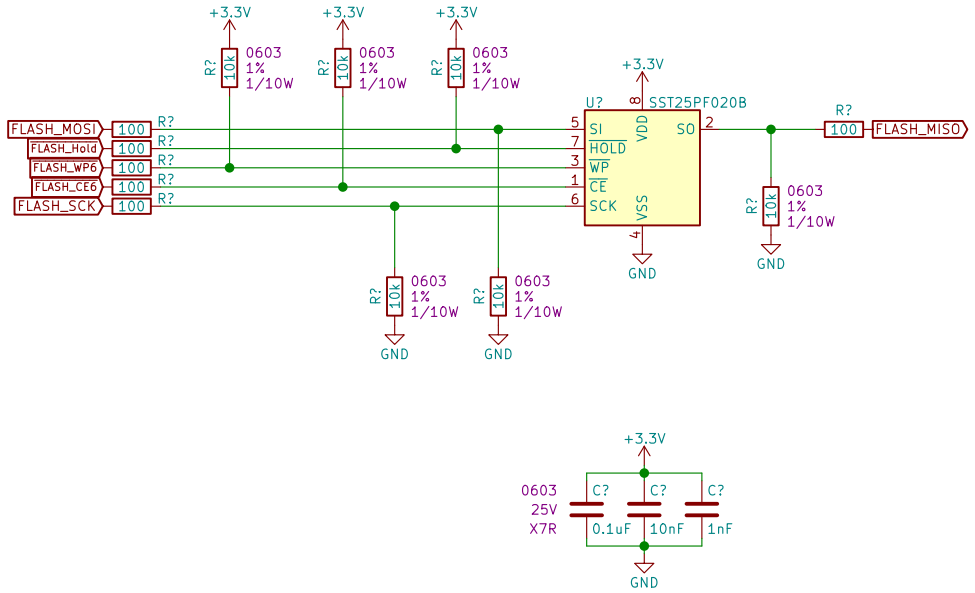

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Title:		
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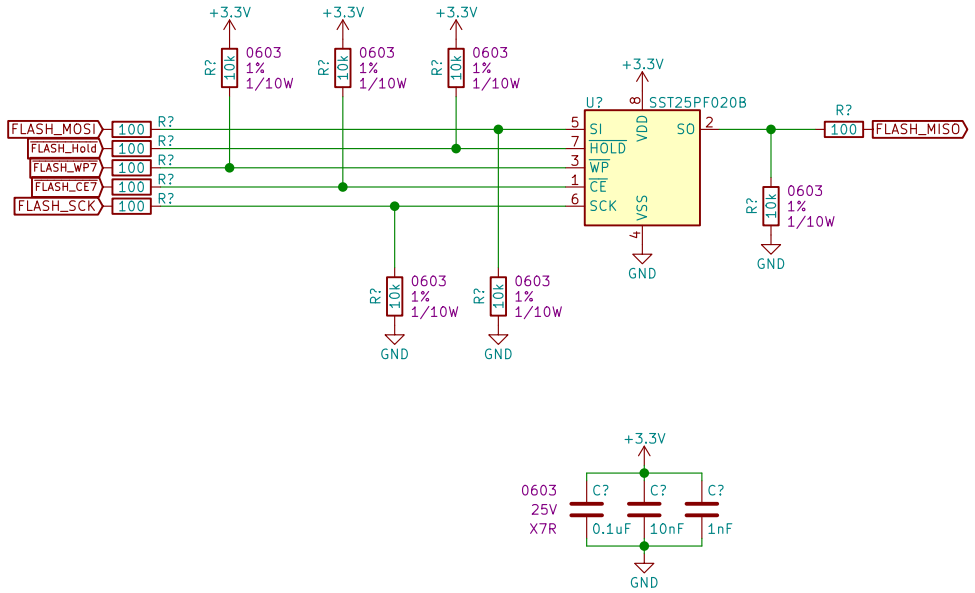

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File: External_Flash_7.sch

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Size: A	Date:	**Rev:**
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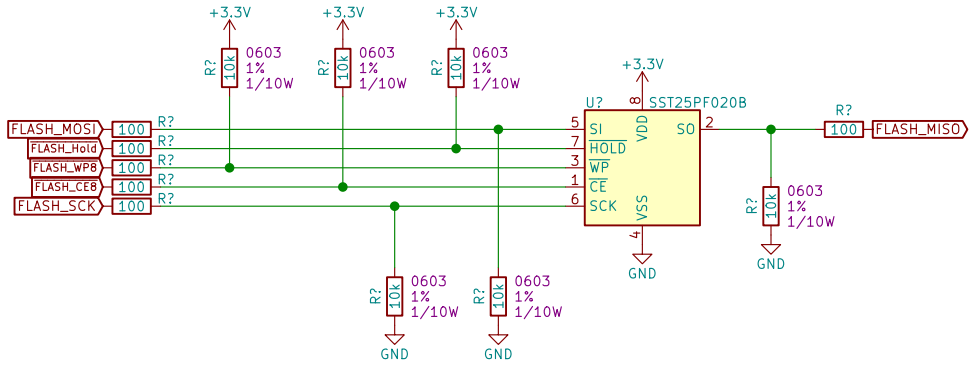

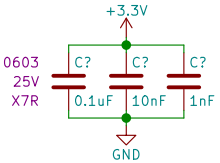

Sheet: /External Flash 8/
File: External_Flash_8.sch

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Size: A	Date:	**Rev:**
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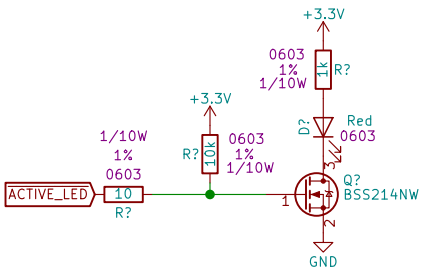

Sheet: /Status LEDs 1/		
File: Status_LEDs_1.sch		
Title:		
Size: A	Date:	**Rev:**
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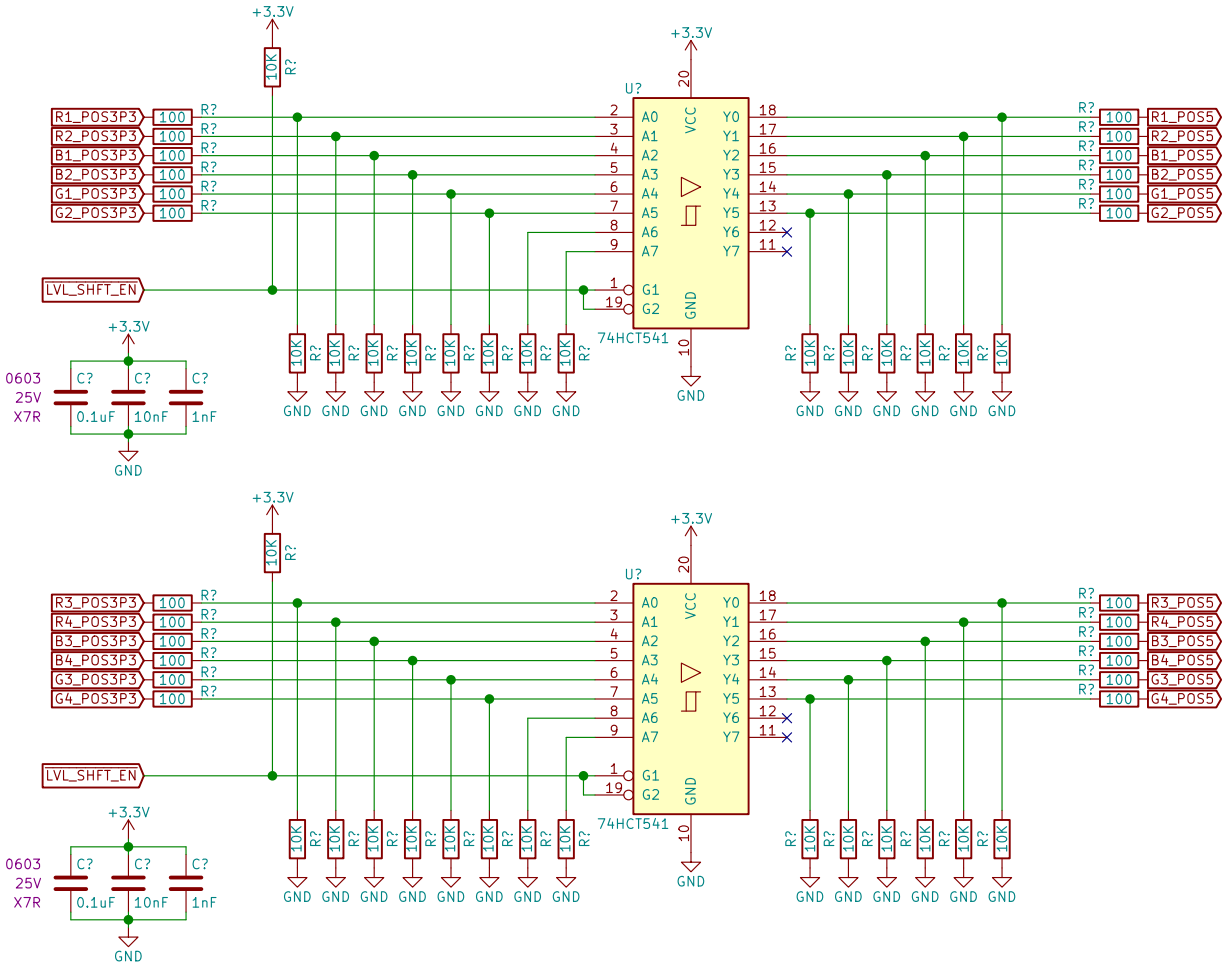
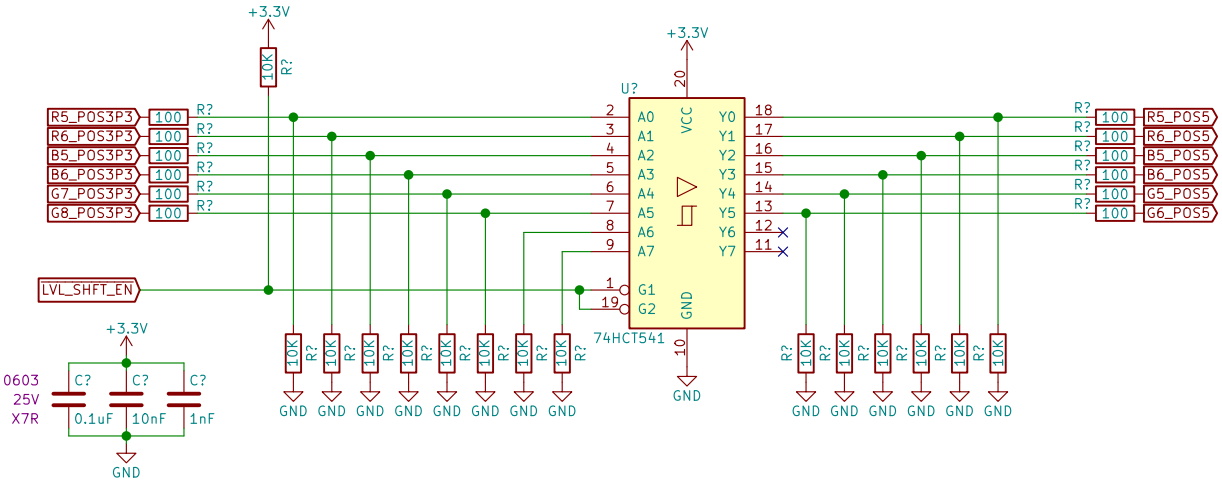
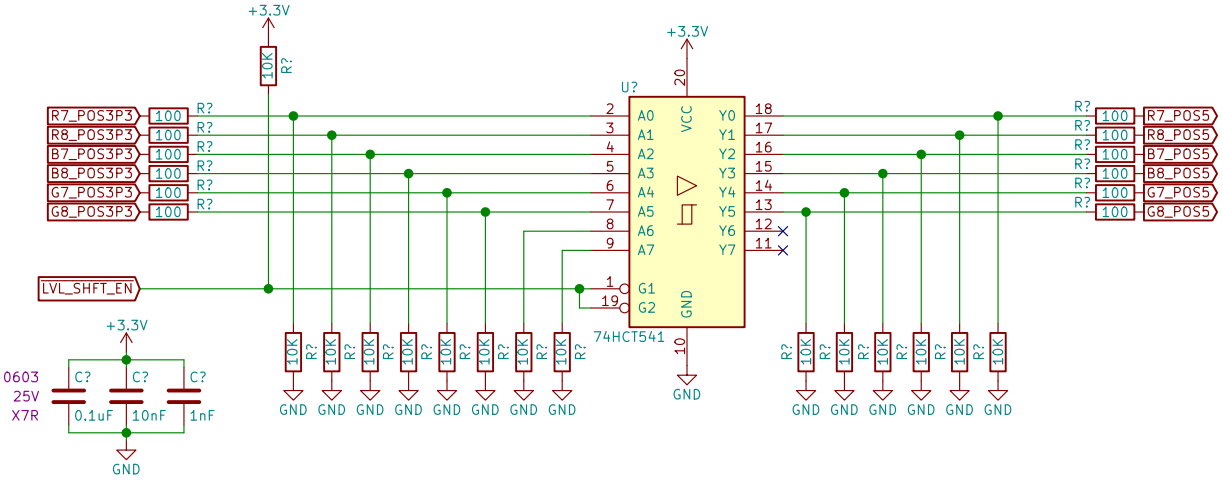


Sheet: /Panel Data Level Shifters 1/		
File: Panel_Data_Level_Shifters_1.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 22/30





Sheet: /Panel Data Level Shifters 2/		
File: Panel_Data_Level_Shifters_2.sch		
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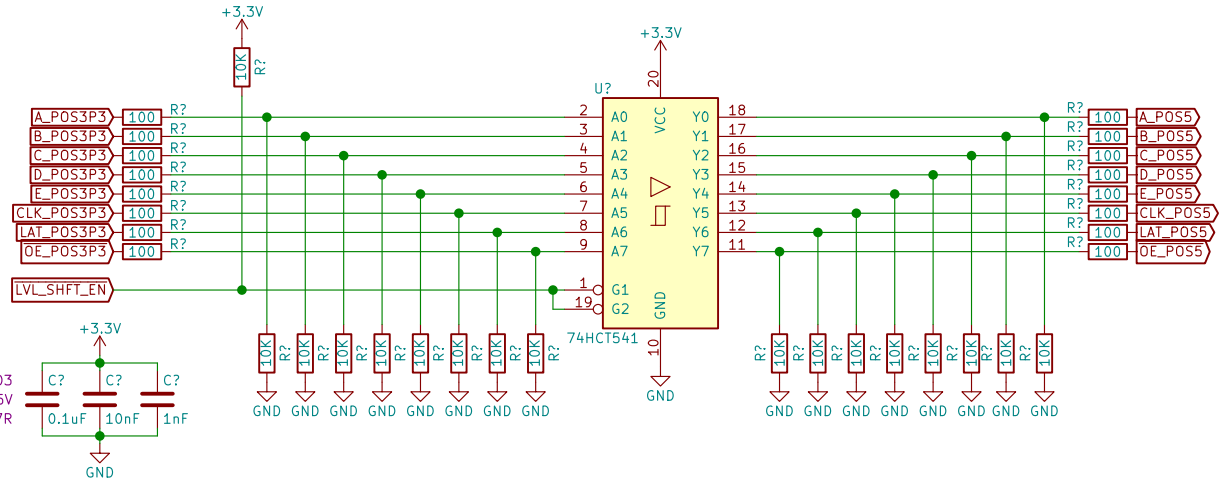

Sheet: /Panel Data Level Shifters 3/		
File: Panel_Data_Level_Shifters_3.sch		
Title:		
Size: A	Date:	**Rev:**
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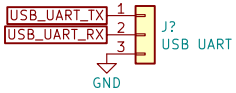
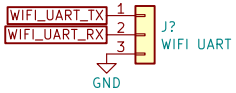
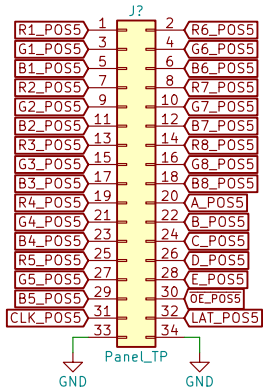
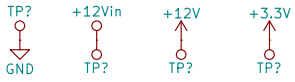
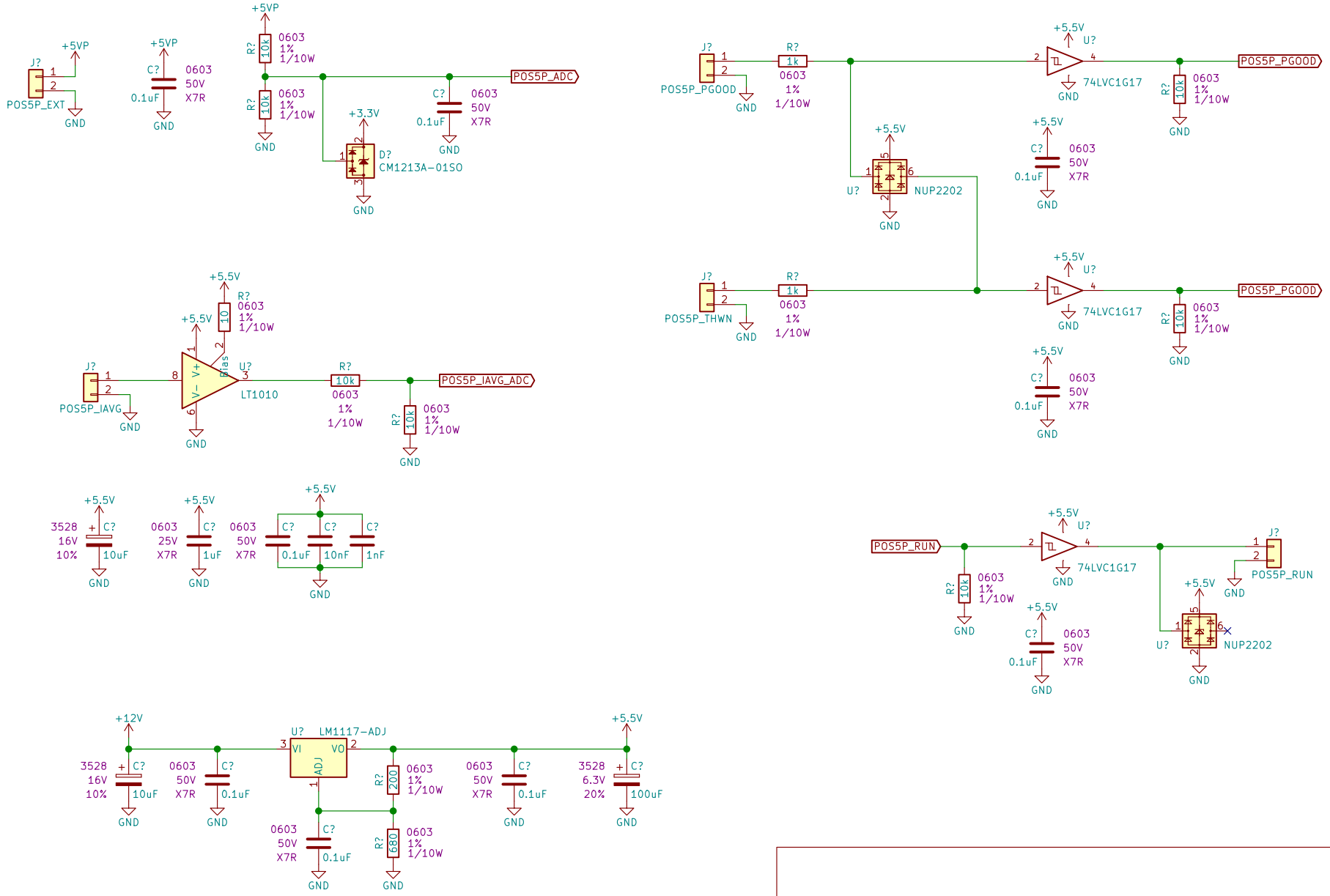




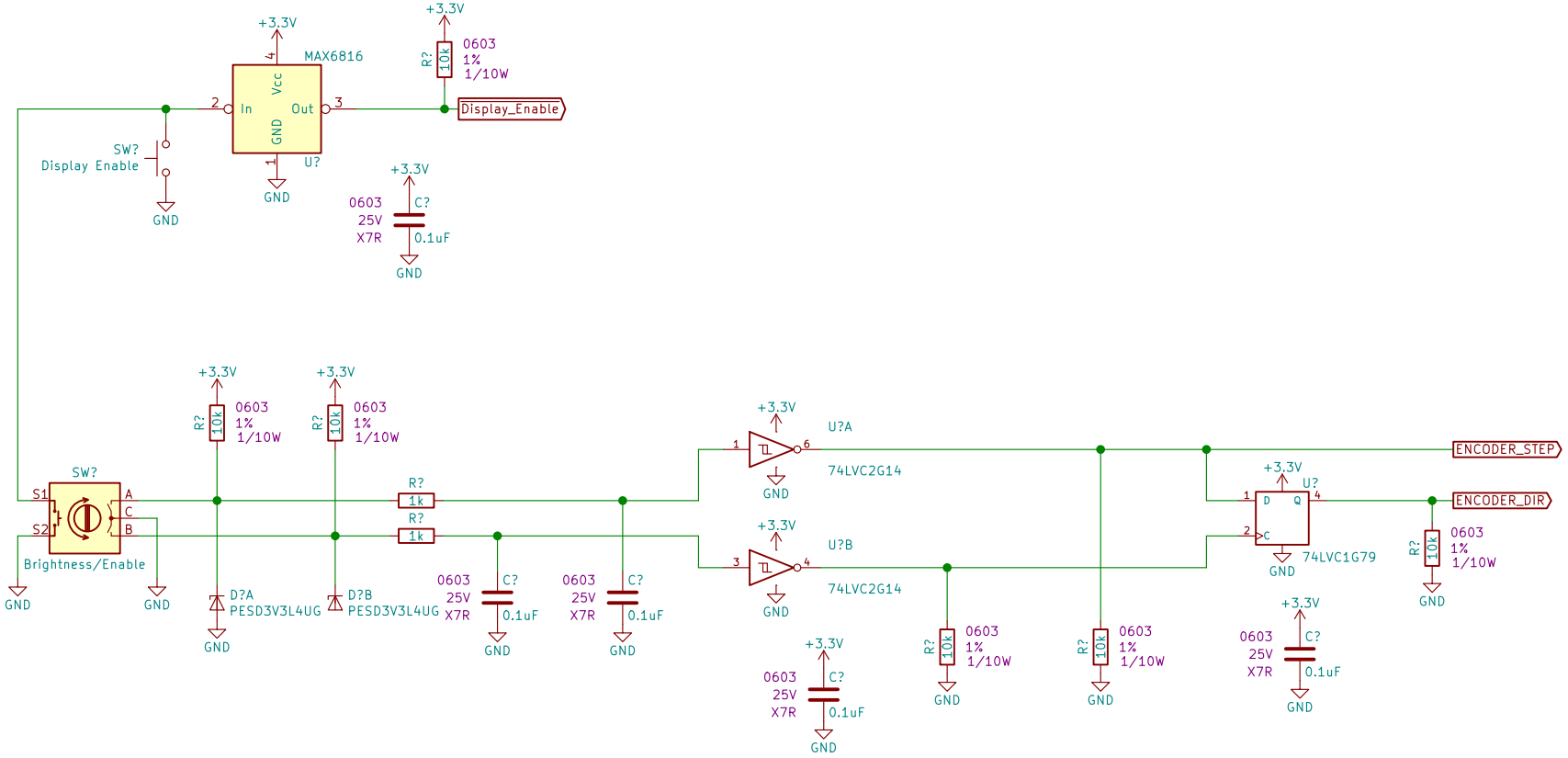




Sheet: /Test Points/ File: Test_Points.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 25/30



Sheet: /LED POS5 Monitoring/		
File: LED_POS5_Monitoring.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 26/30



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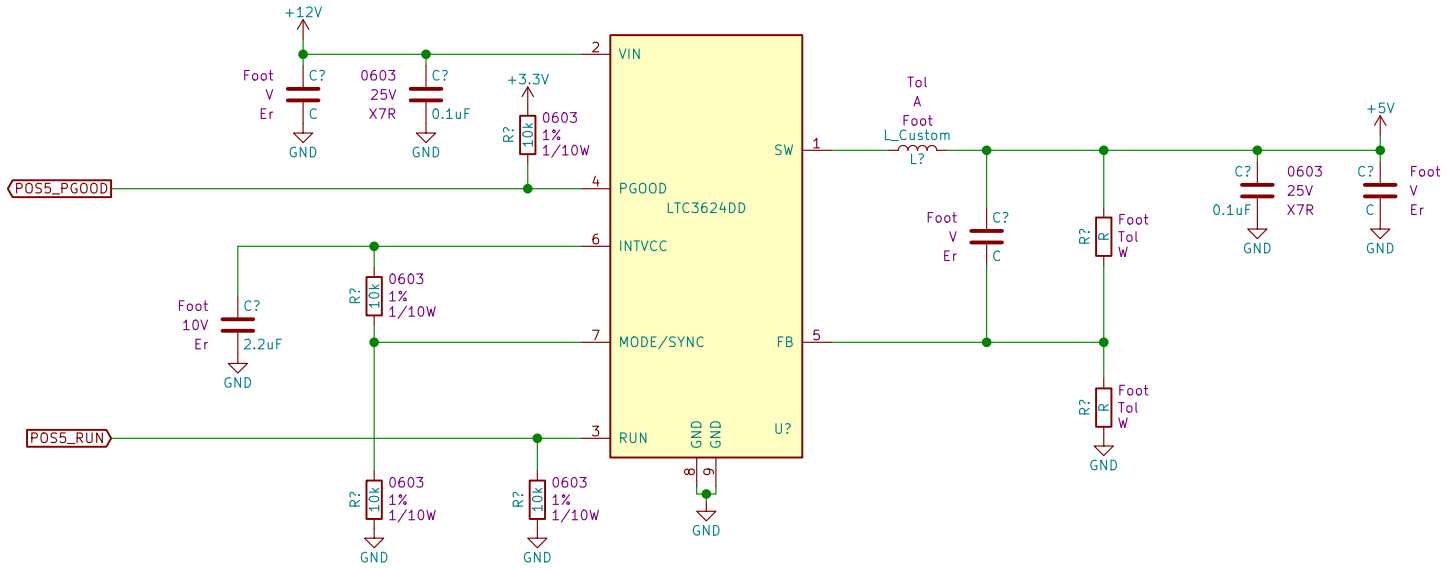
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 27/30



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KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 28/30

Sheet: /Mechanical/
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Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 29/30

Sheet: /Internal Rail Monitoring/
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KiCad E.D.A. kicad (5.0.0-3-g5ebb6b6)		Id: 30/30