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

Panel Power Connectors

Panel_Power_Connectors.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

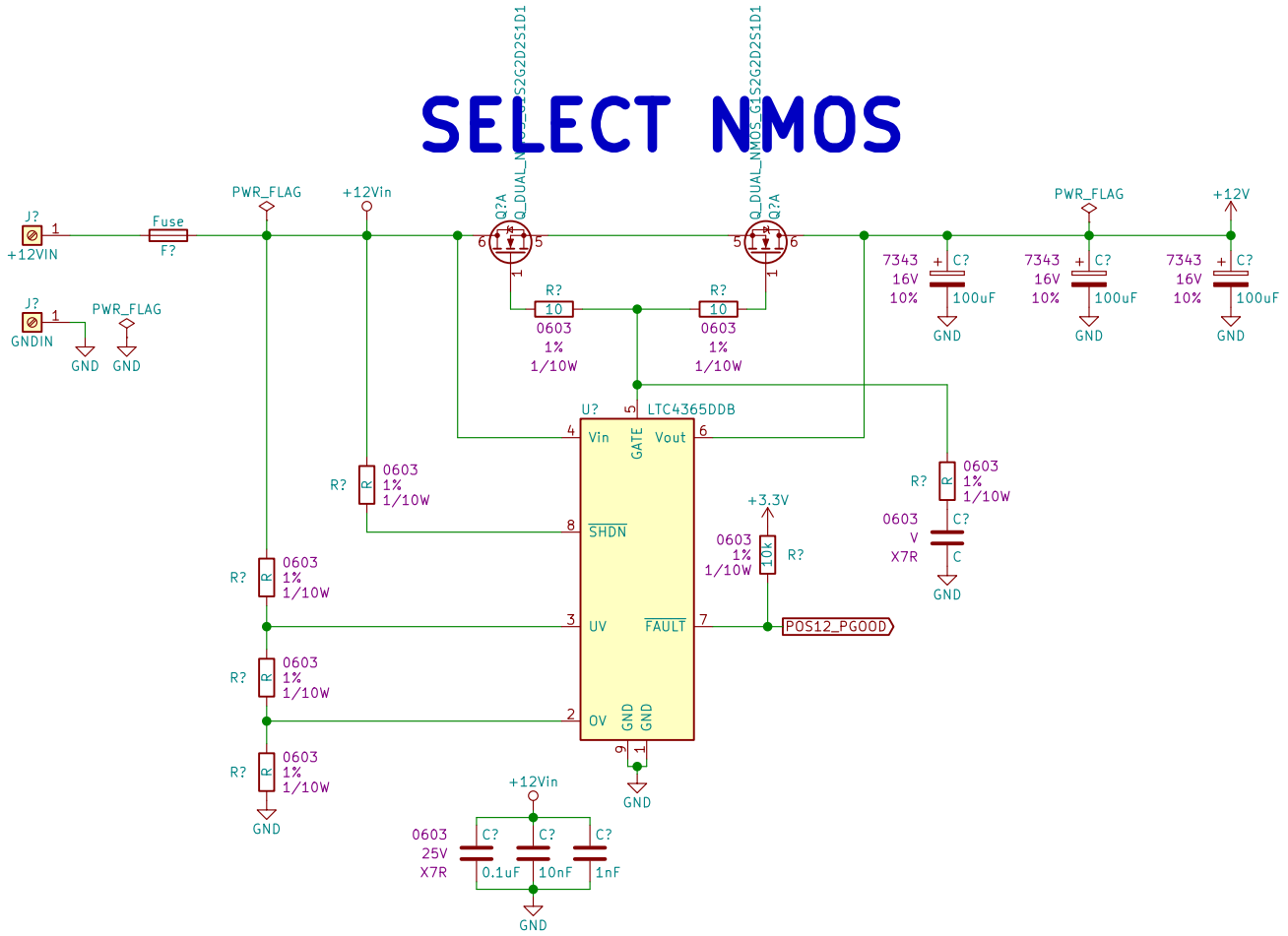
To Do List:
* Add +5V LED Power Supply (~80 to 90A)
* External oscillator for Micro?
* Mechanical sheet
* Design Power Input Circuit, add fusing
* Decide on input power supply (AC/DC)
* Add more power input connectors, match to AC/DC output connectors. Might need beefy Weurth shanks
* Add status LEDs, PGOOD stuff
* +3.3V Power Supply (~2A)
* +5V Monitoring/+3.3V Monitoring/Input Monitoring? Temperature sensors?
* Add AUX +5V input if we mess up +5V supply
* Wi-Fi Module
* Evaluate Micro AVDD/AVSS filter
* Select panel connector bulk caps, match with other tantalums on board for BOM scrubbing?
* Power pushbutton? vs set on app?
* Brightness encoder? vs set on app?
* 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
* Run ERC, resolve errors
* Add firmware notes sheet
* Add COM port settings note to USB sheet
* Generate netlist
* Generate BOM

Sheet: /
File: LED_Display_Controller.sch

Title:

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 1/26

SELECT NMOS



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KiCad E.D.A. kicad (5.0.0)		Id: 2/26

Sheet: /POS3P3 Power Supply/
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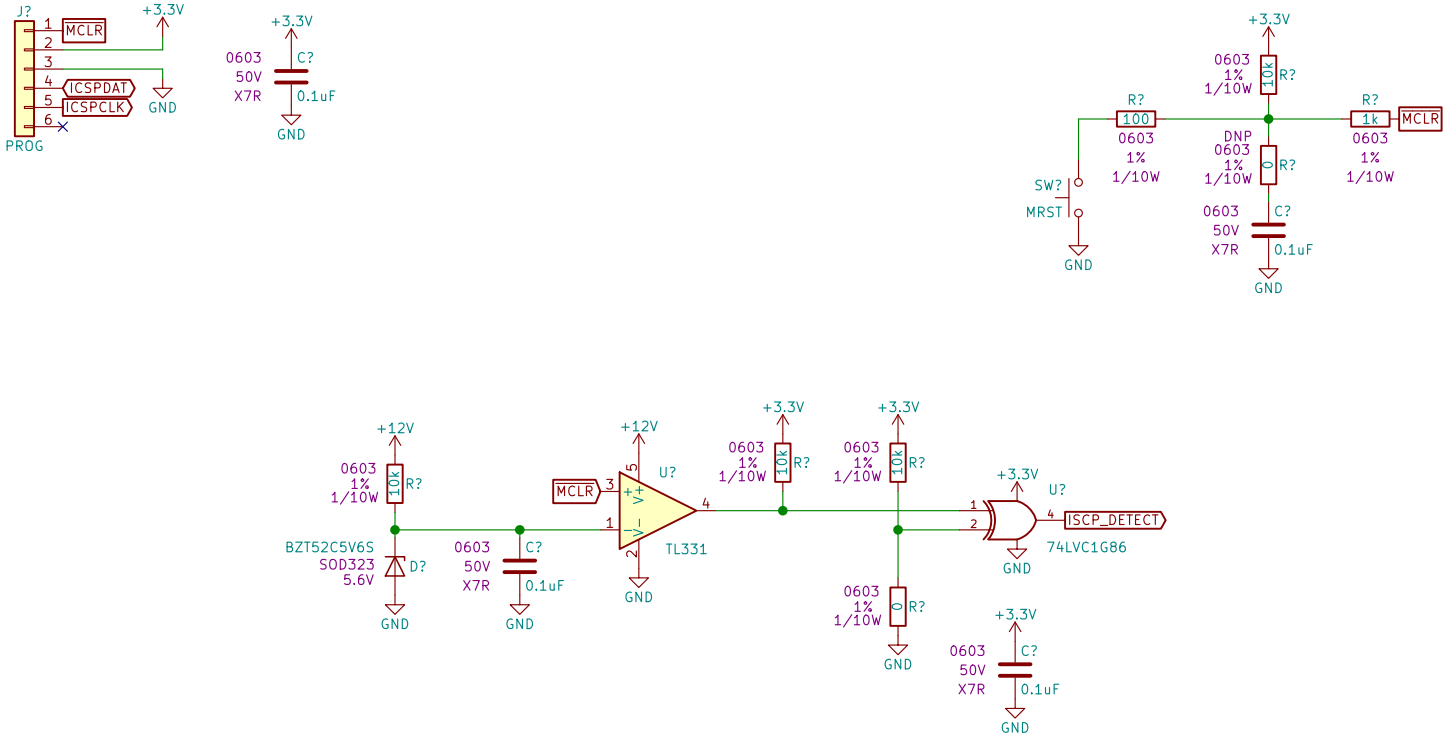

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KiCad E.D.A. kicad (5.0.0)		Id: 4/26

Sheet: /WiFi Module/
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Title:

Size: A	Date:	**Rev:**
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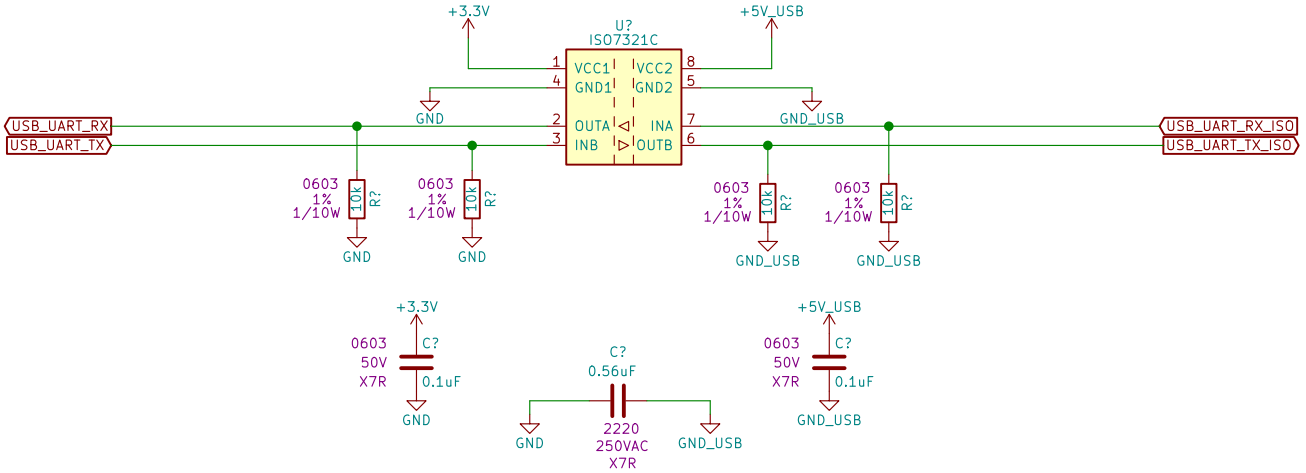

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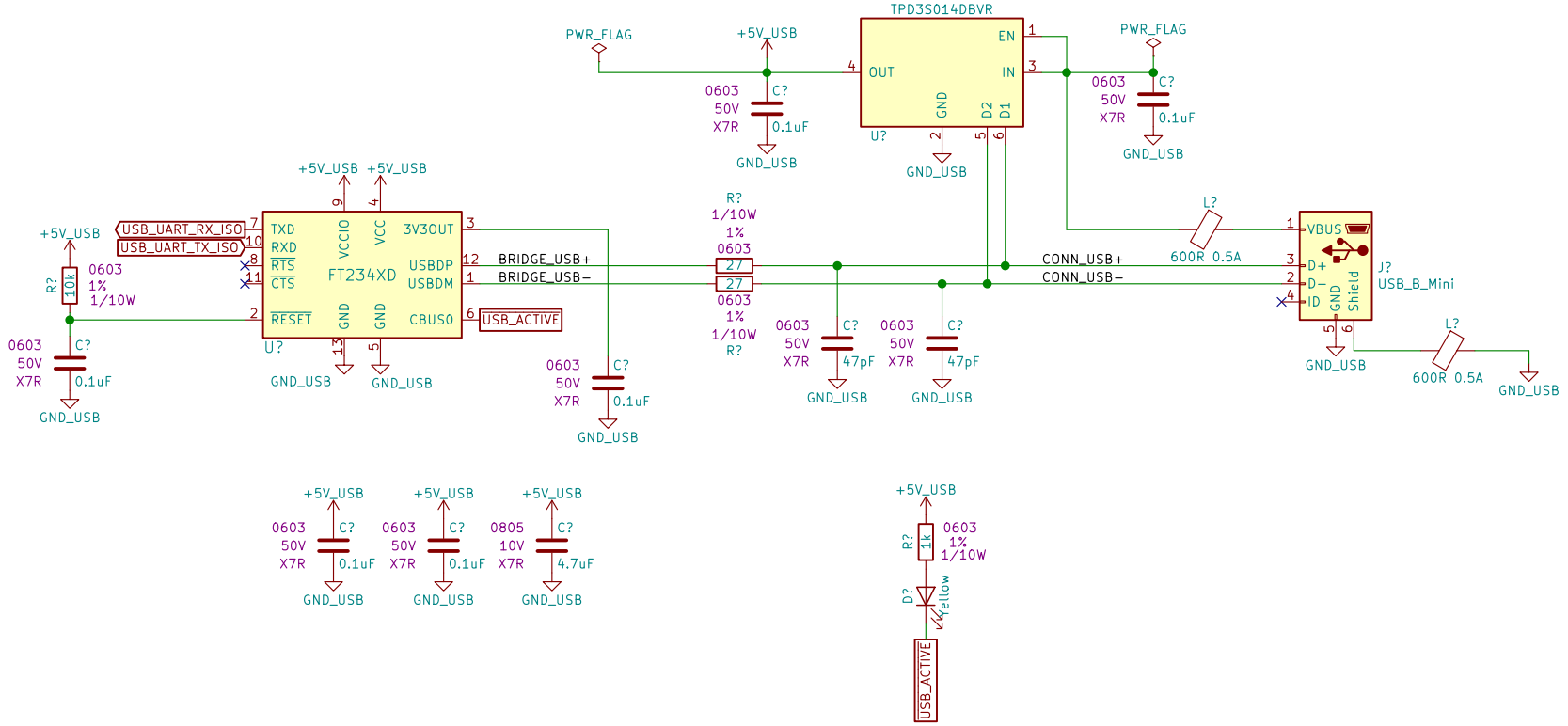
KiCad E.D.A. kicad (5.0.0)		Id: 6/26



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Size: A	Date:
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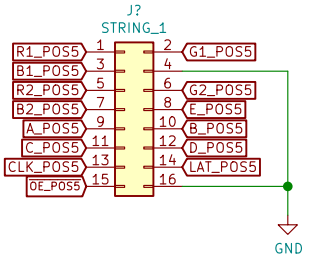

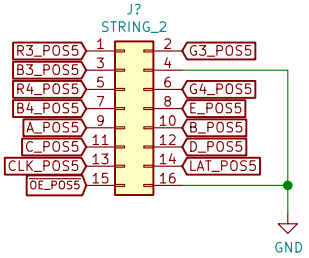

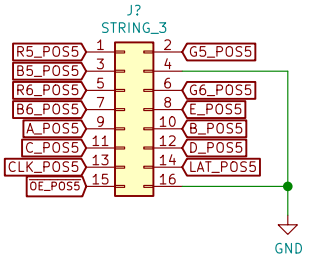

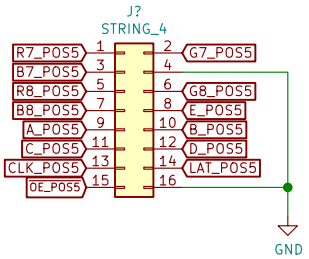

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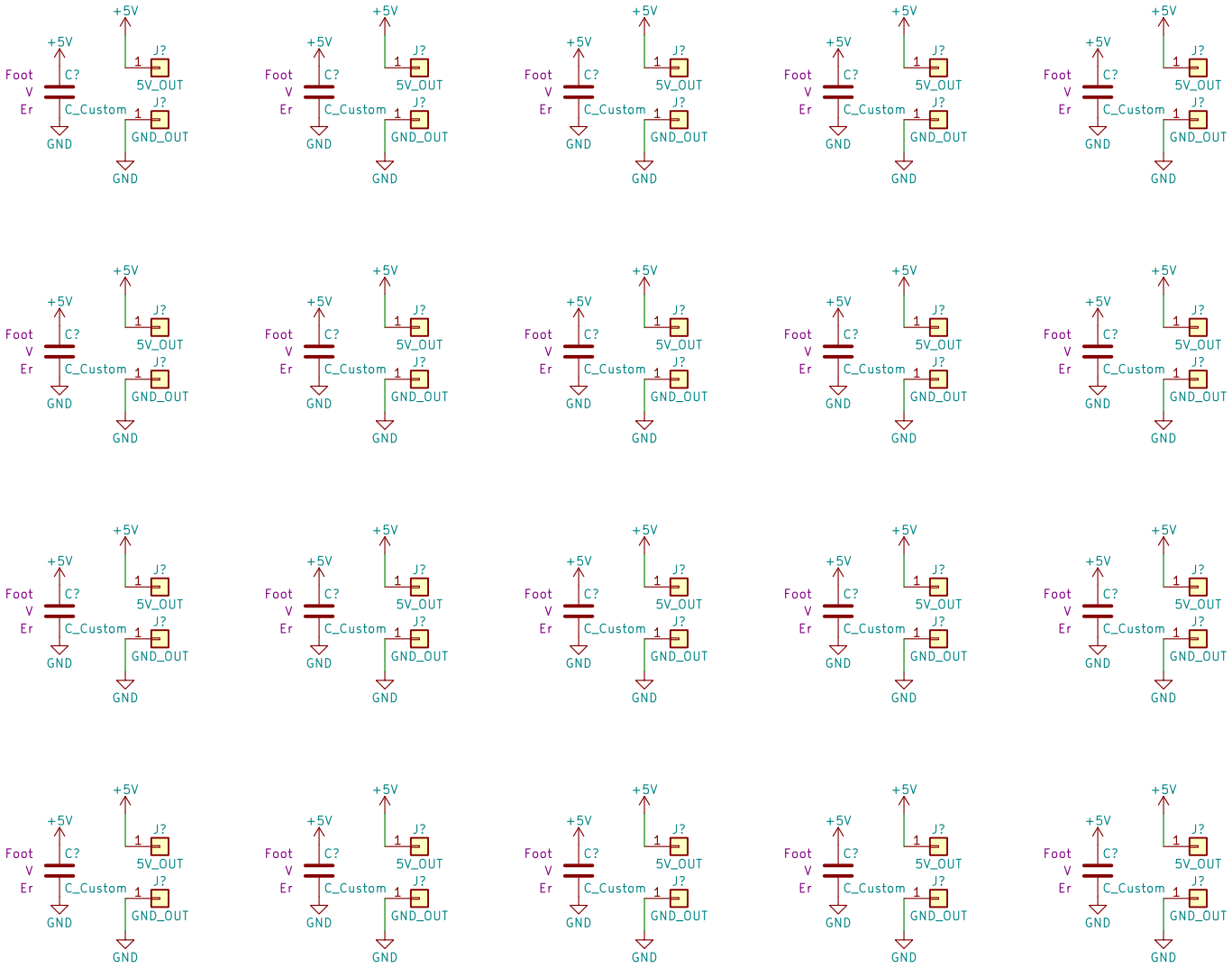

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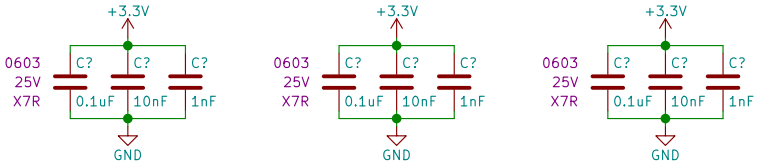

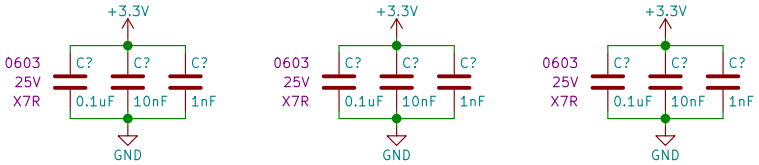

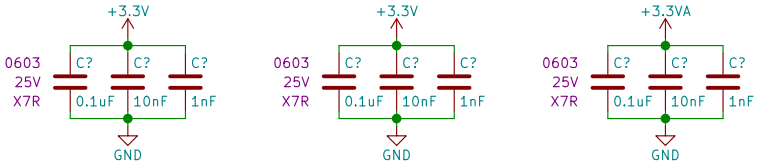

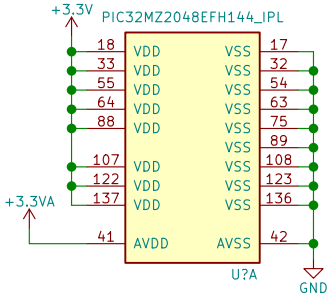

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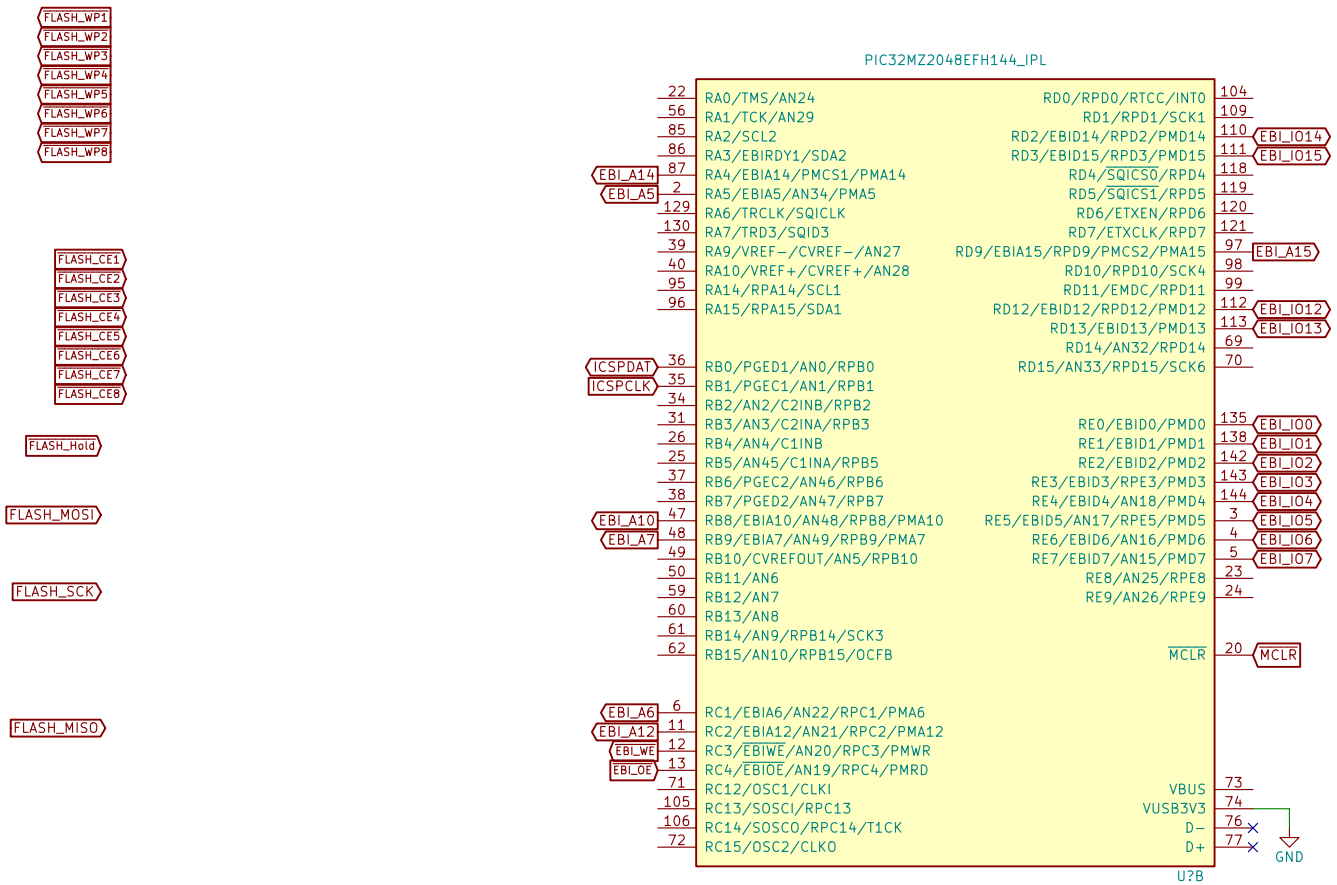

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Title:		
Size: A	Date:	**Rev:**
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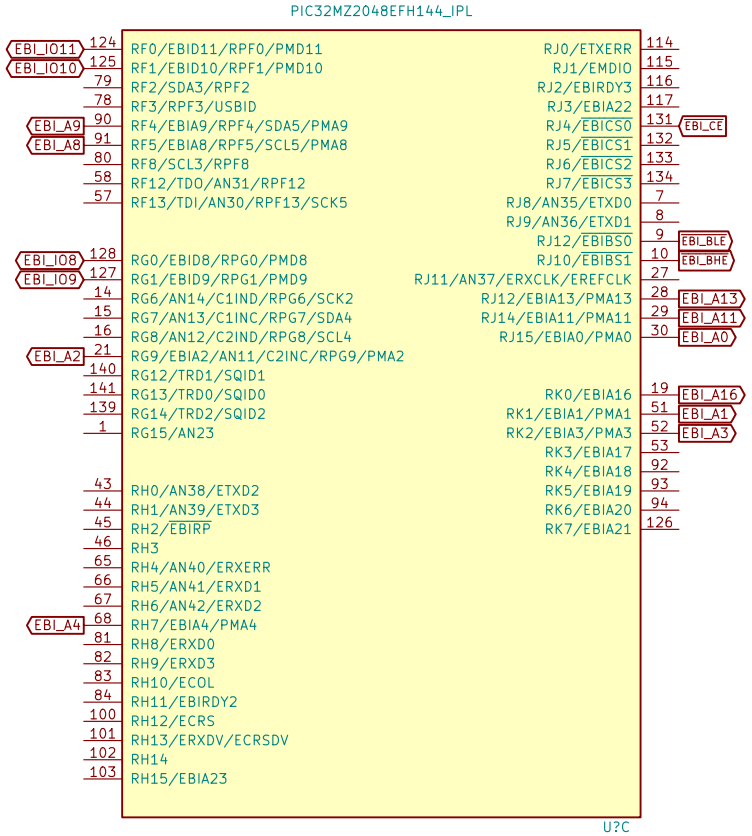

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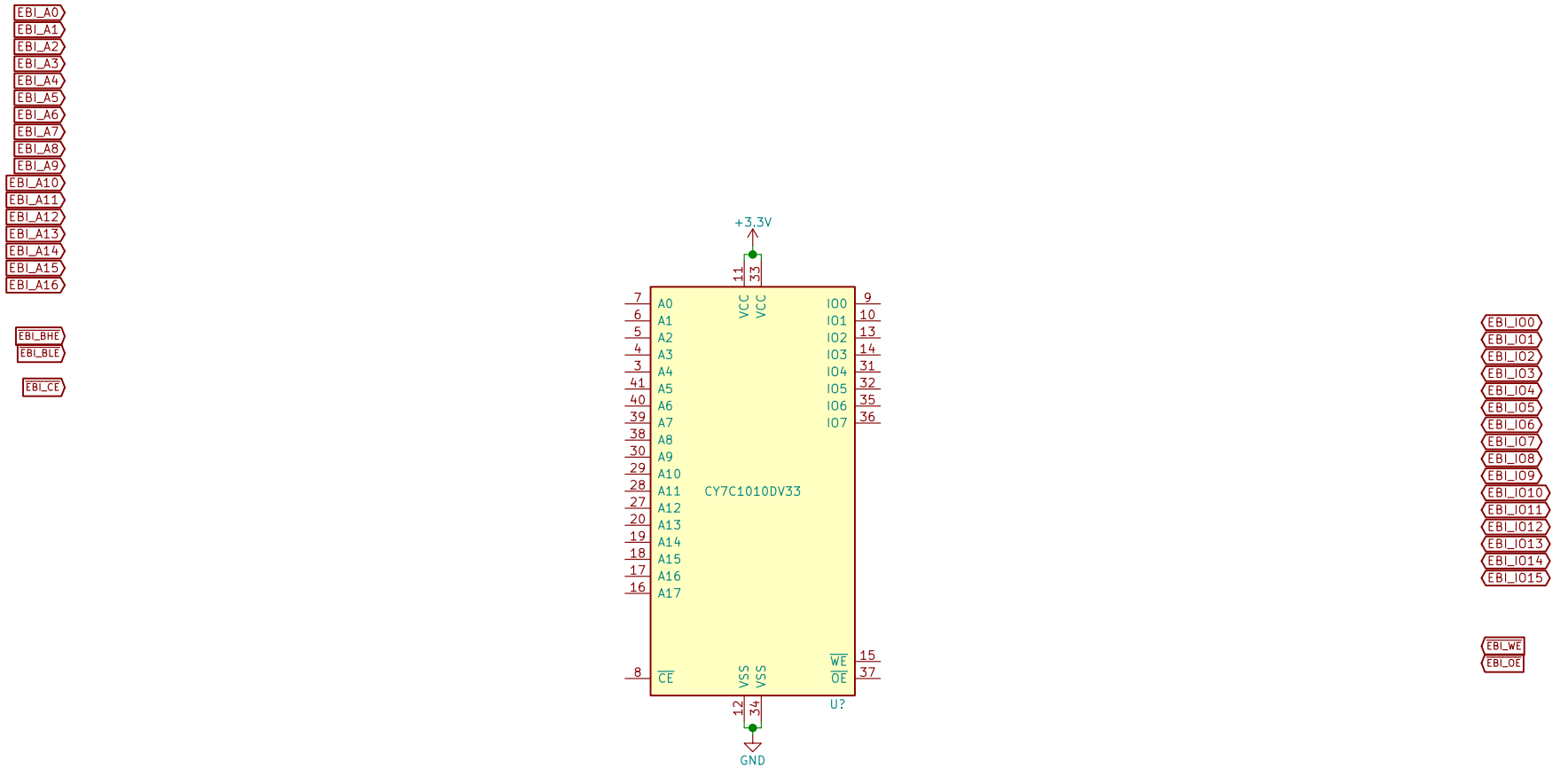

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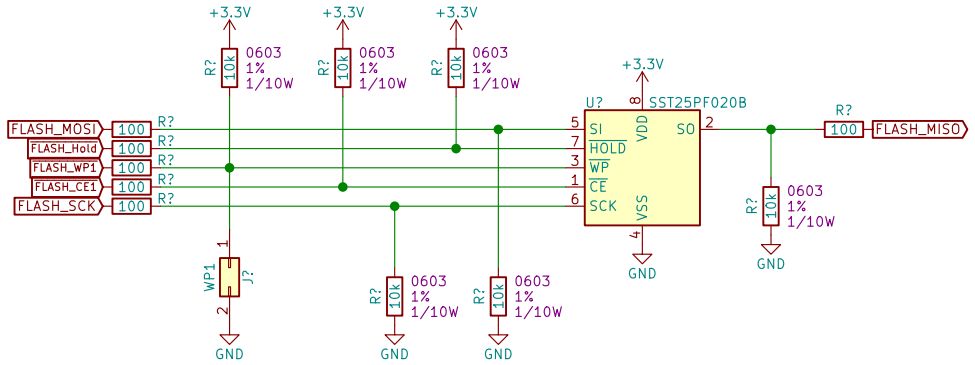

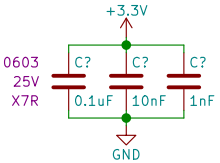

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Size: A	Date:	**Rev:**
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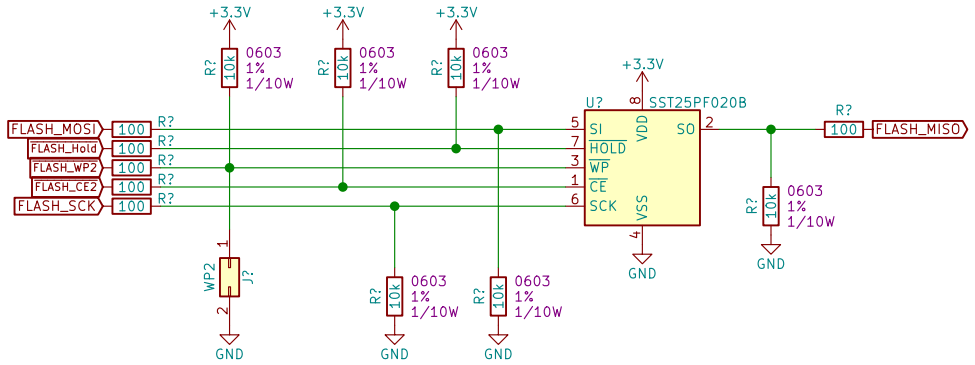

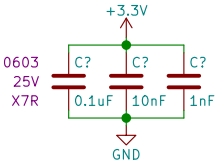

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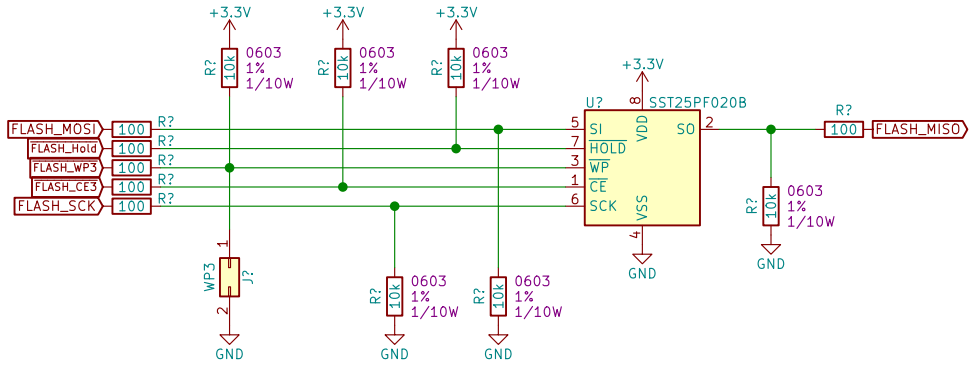

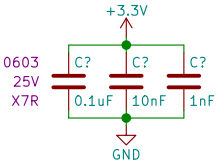

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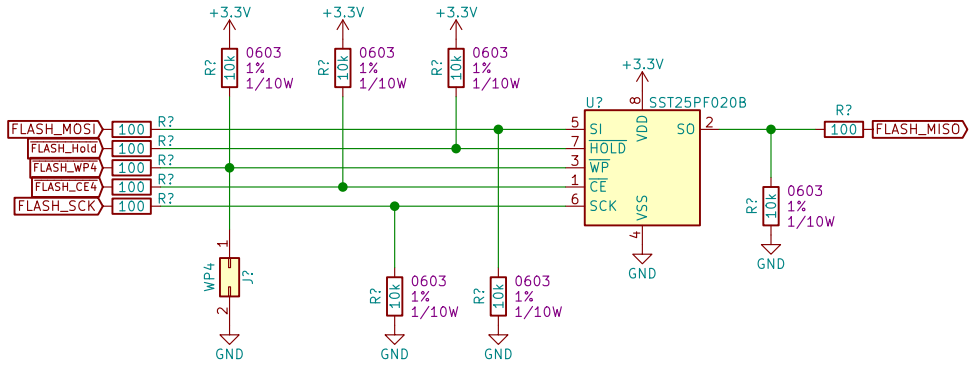

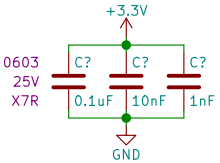

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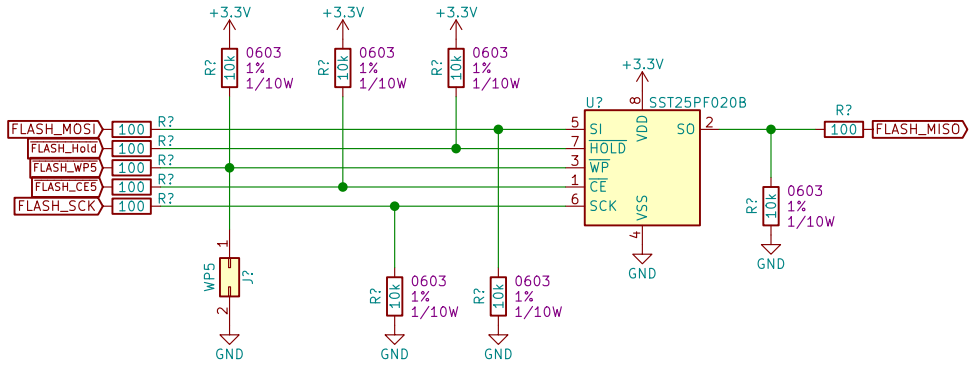

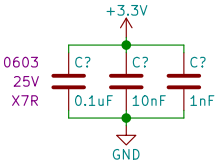

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Title:

Size: A	Date:	**Rev:**
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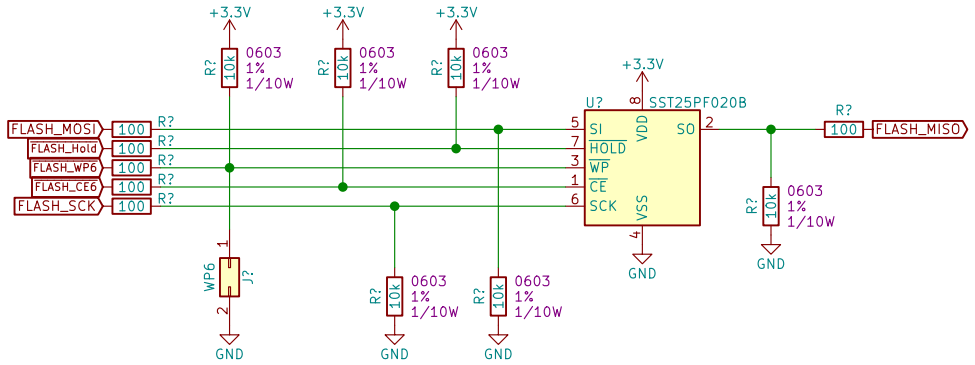

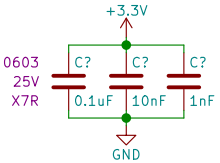

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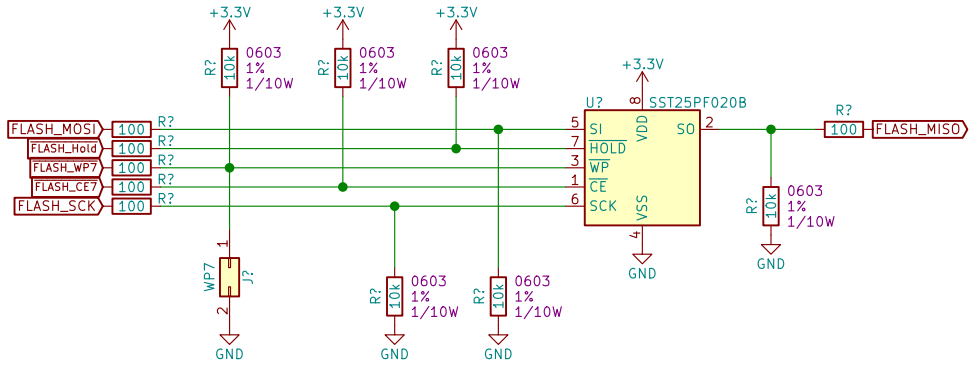

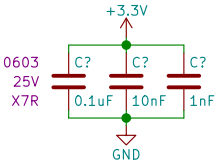

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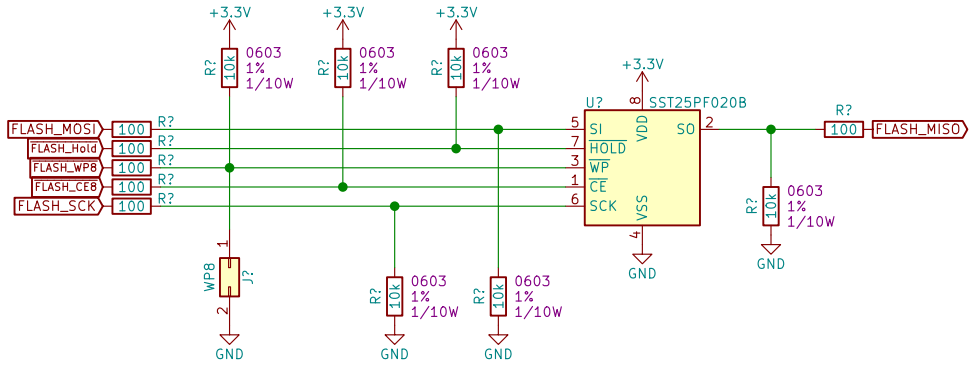

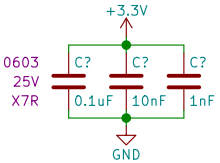

Sheet: /External Flash 8/
File: External_Flash_8.sch

Title:

Size: A	Date:	**Rev:**
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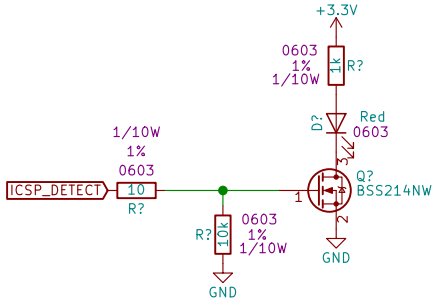

Sheet: /Status LEDs 1/		
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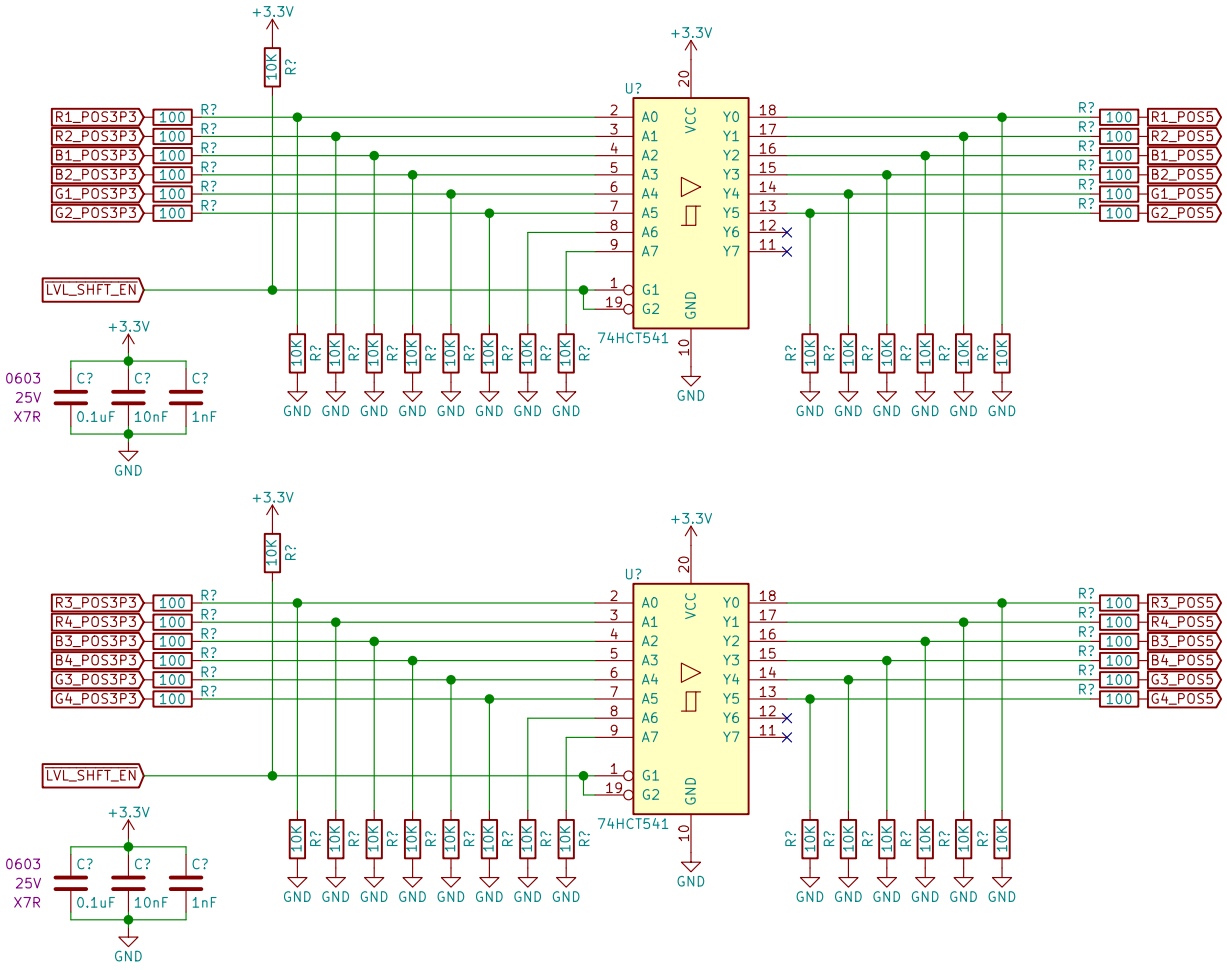
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 22/26



Sheet: /Panel Data Level Shifters 1/	
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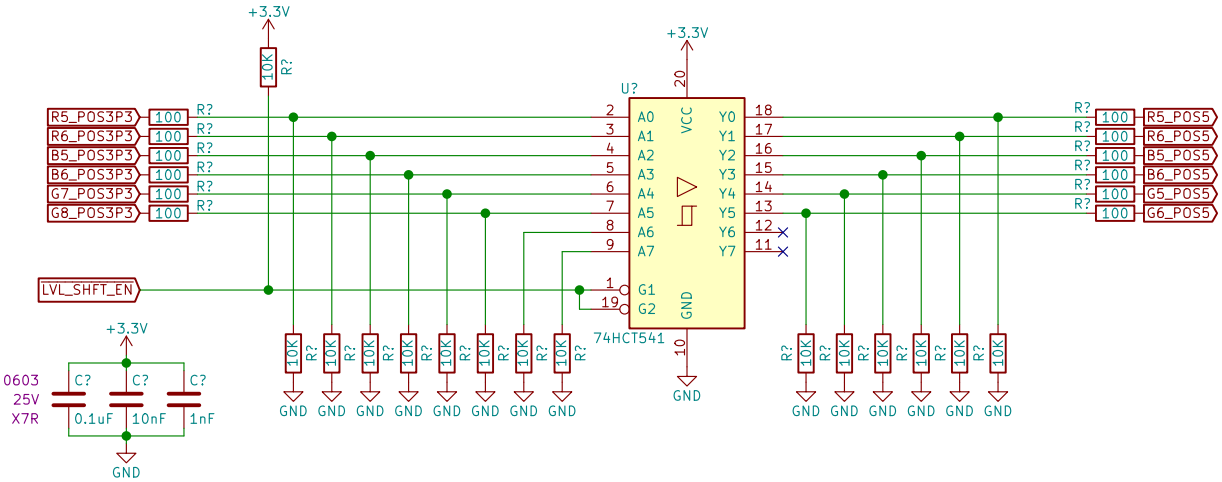
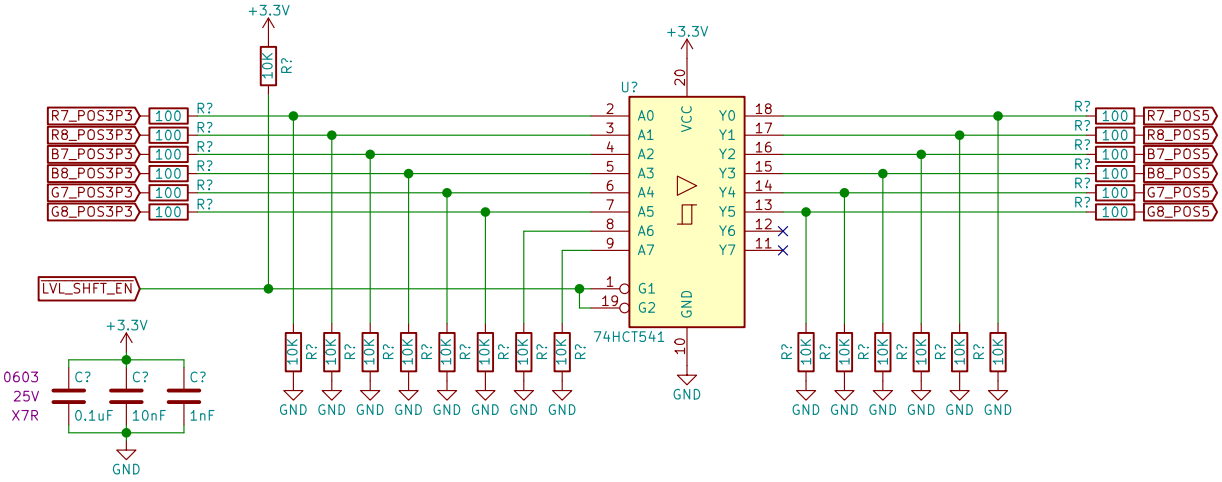
Title:	
Size: A	Date:
KiCad E.D.A. kicad (5.0.0)	Id: 23/26





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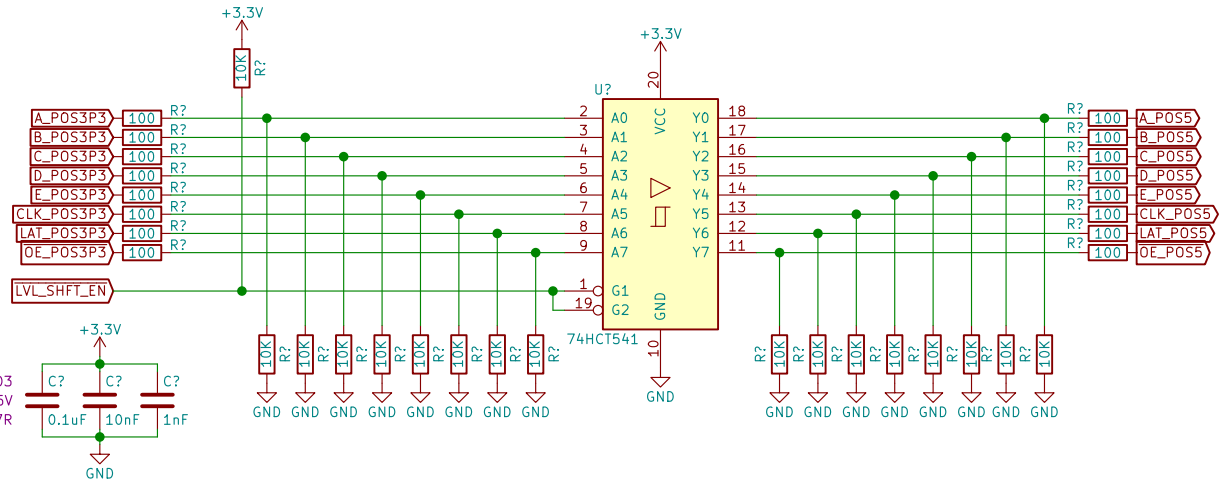

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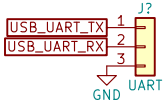
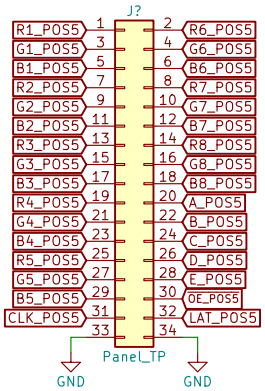
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 25/26





Sheet: /Test Points/ File: Test_Points.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 26/26