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

POS5_Control

POS5_Control.sch

POS5_Phase_1

POS5_Phase_1.sch

POS5_Phase_2

POS5_Phase_2.sch

POS5_Phase_3

POS5_Phase_3.sch

POS5_Phase_4

POS5_Phase_4.sch

POS5P5_MNG

POS5P5_MNG.sch

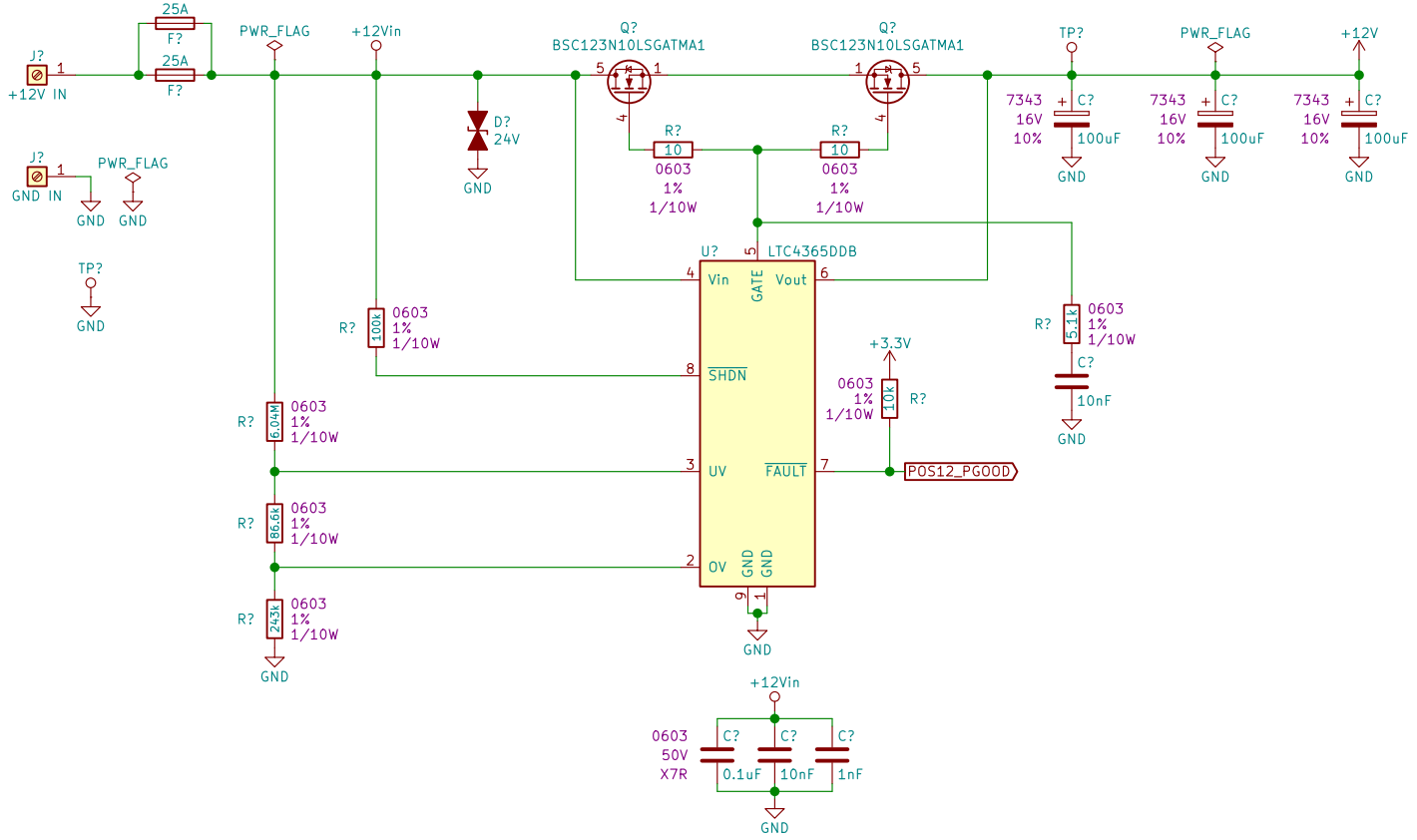
To Do List:
* Mechanical sheet
* Decide on input power supply (AC/DC)
* Add more power input connectors, match to AC/DC output connectors. Might need beefy Wuerth shanks
* Add status LEDs, PGOOD stuff
* +3.3V Power Supply (~2A)
* Add AUX +5V input if we mess up +5V supply
* Wi-Fi Module
* Evaluate Micro AVDD/AVSS filter
* 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: 1/32

Power Input



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Size: A	Date:
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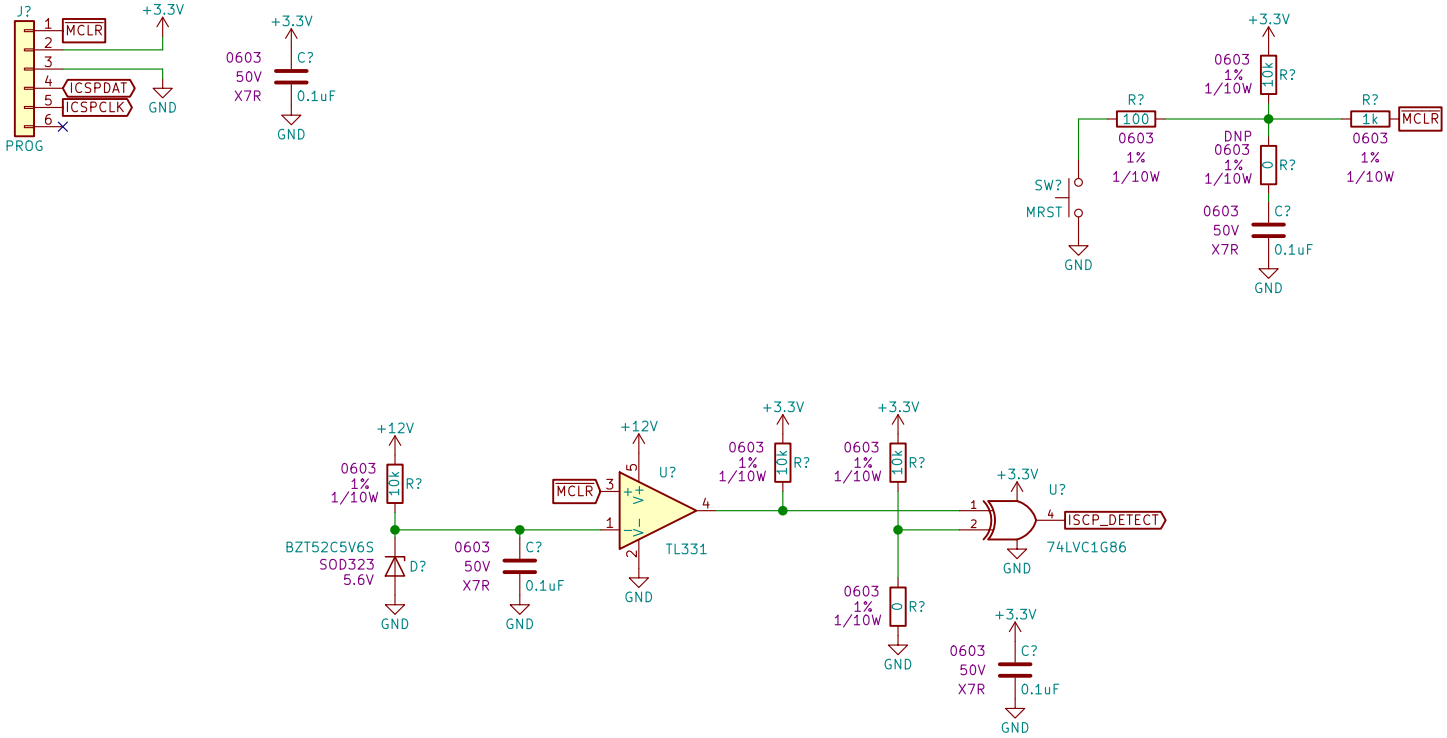
Sheet: /POS3P3 Power Supply/
File: POS3P3_Power_Supply.sch

Title:

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 3/32



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Title:		
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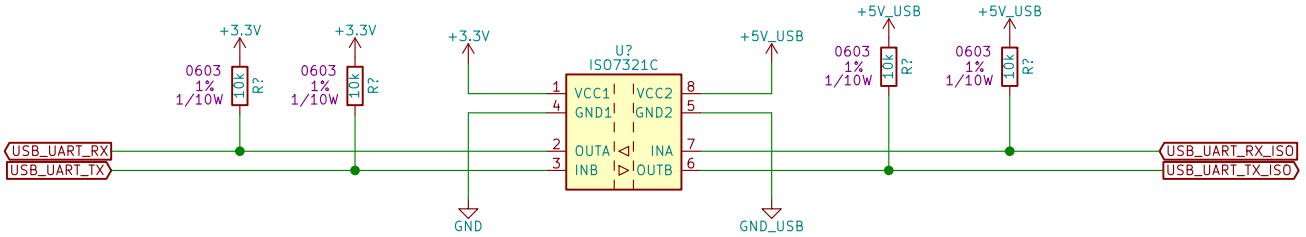
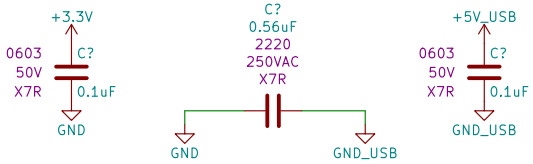
KiCad E.D.A. kicad (5.0.0)		Id: 4/32

Sheet: /WiFi Module/
File: Wi_Fi_Module.sch

Title:

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 5/32





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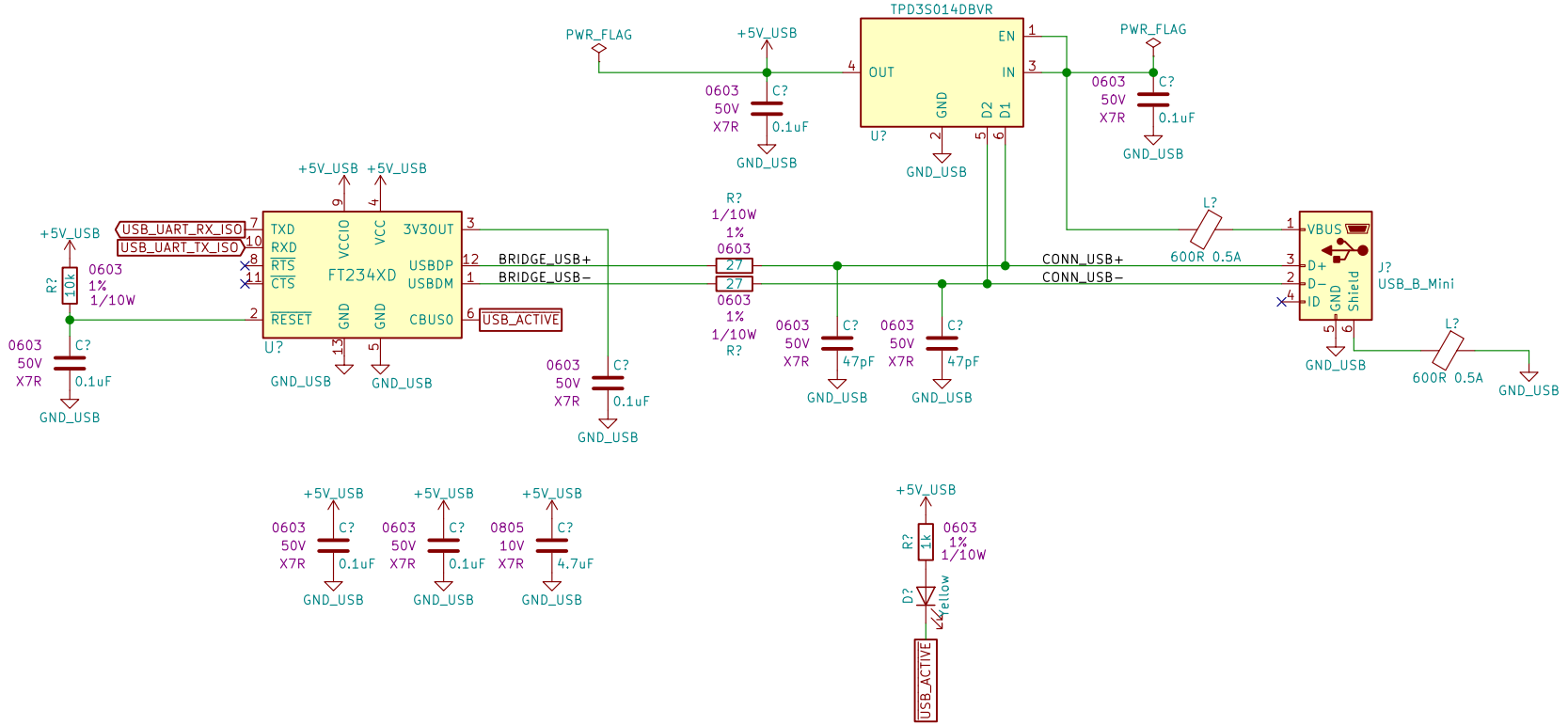
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 6/32



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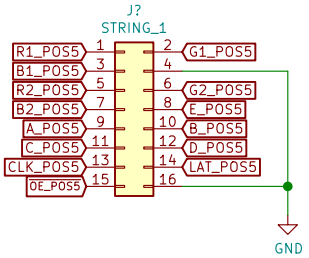
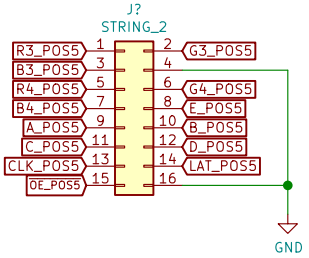
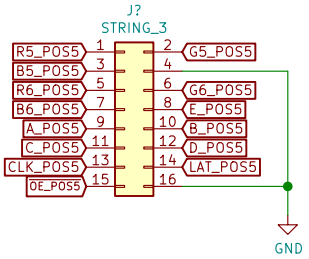
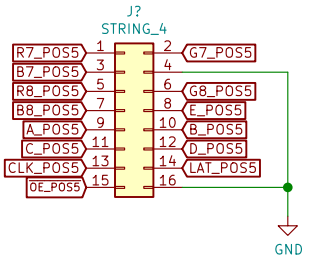
KiCad E.D.A. kicad (5.0.0)		Id: 7/32









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Title:

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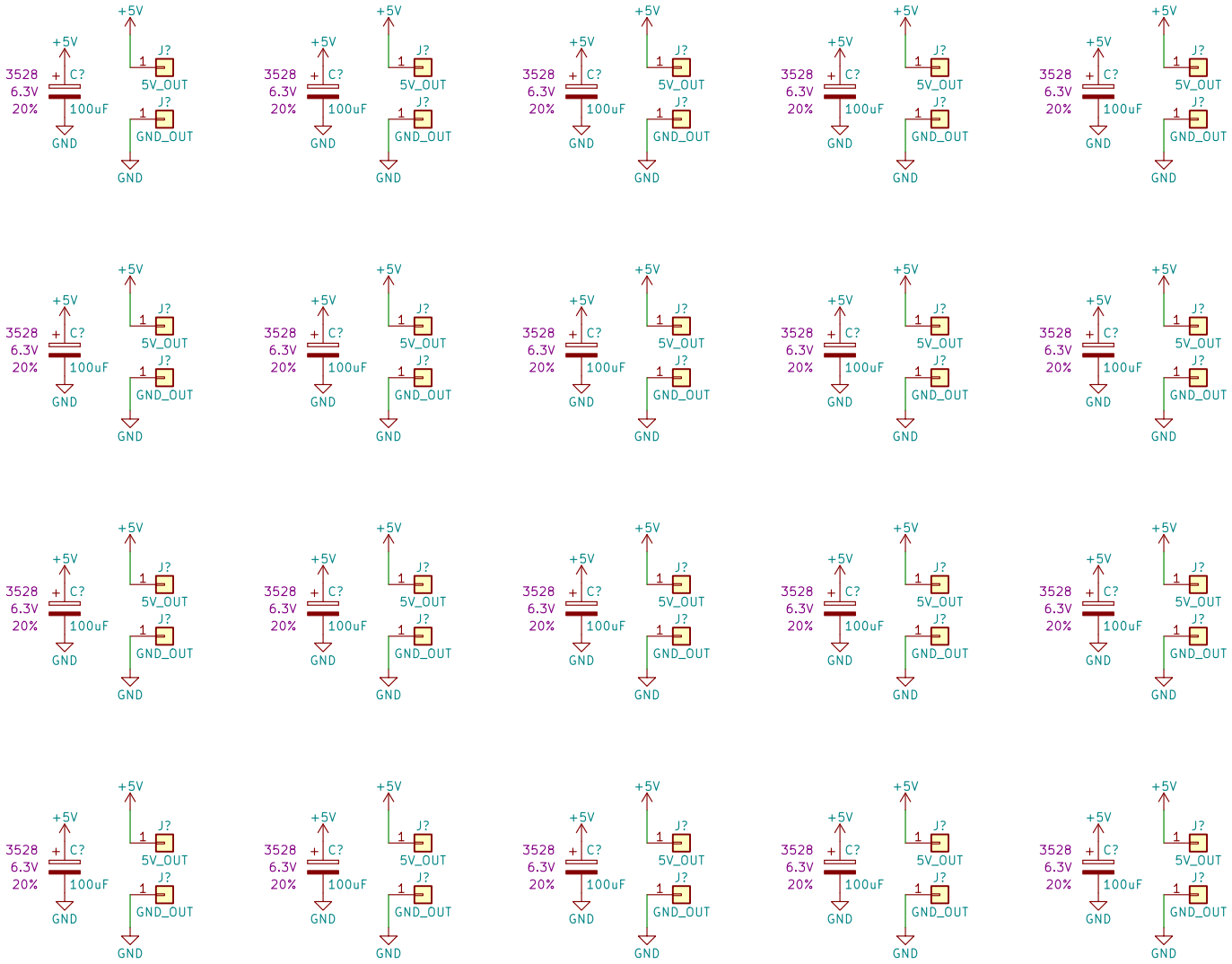

Sheet: /Panel Power Connectors/	
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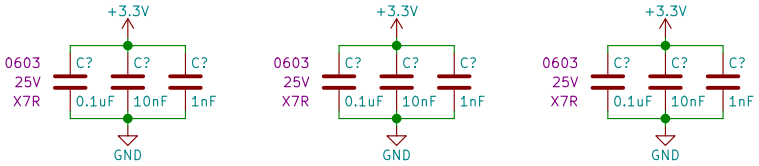
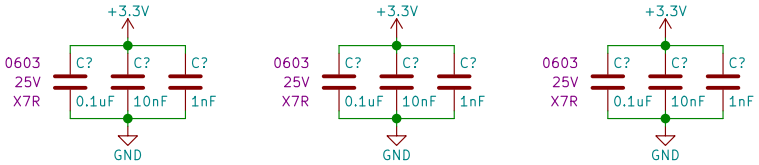
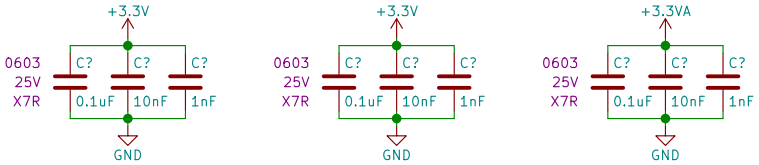
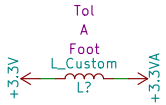
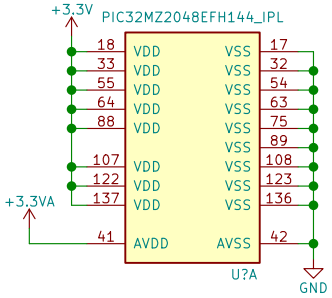
Title:	
Size: A	Date:
KiCad E.D.A. kicad (5.0.0)	Id: 9/32



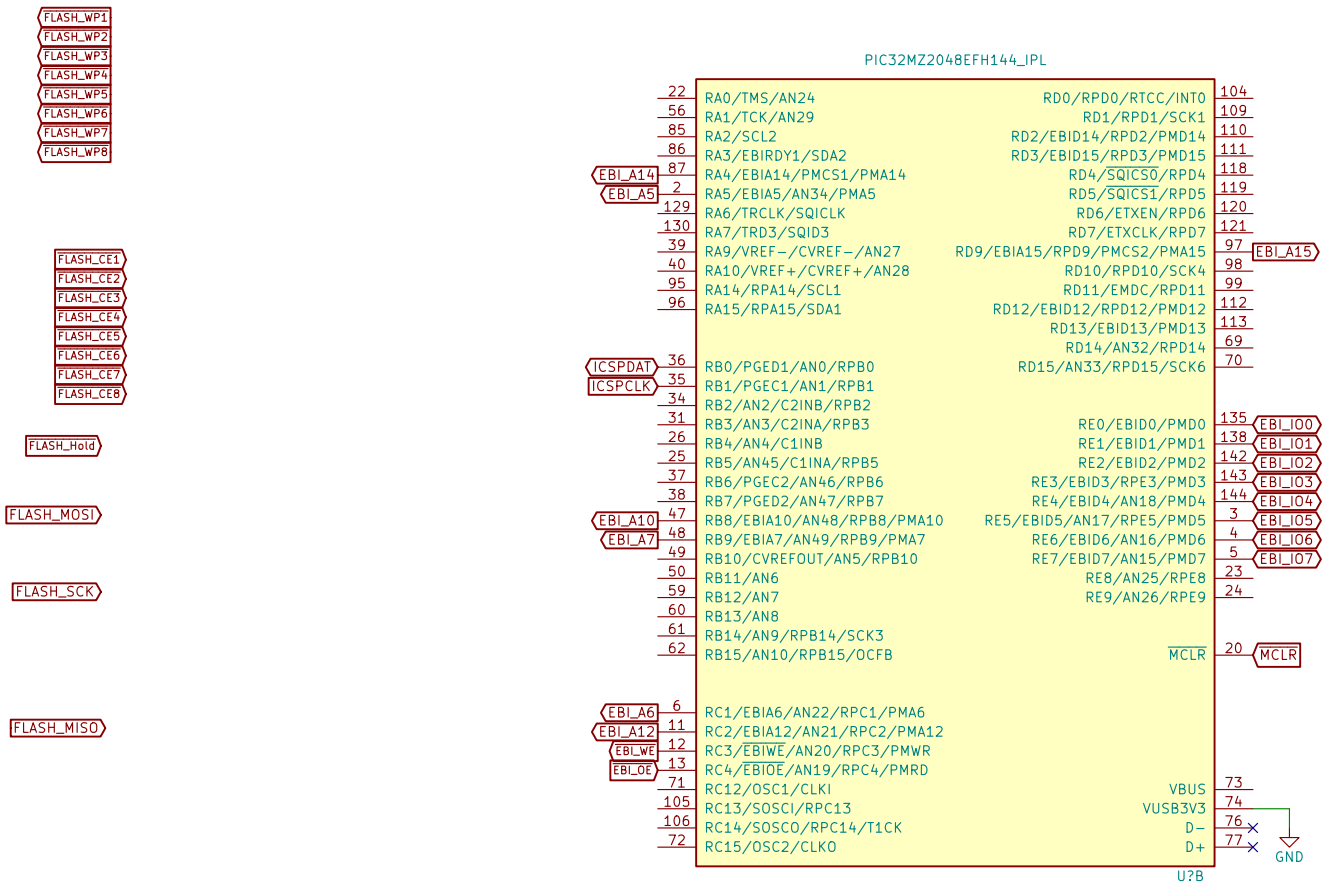








Sheet: /Microcontroller Power/		
File: Microcontroller_Power.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 10/32



Sheet: /Microcontroller A/		
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Title:		
Size: A	Date:	**Rev:**
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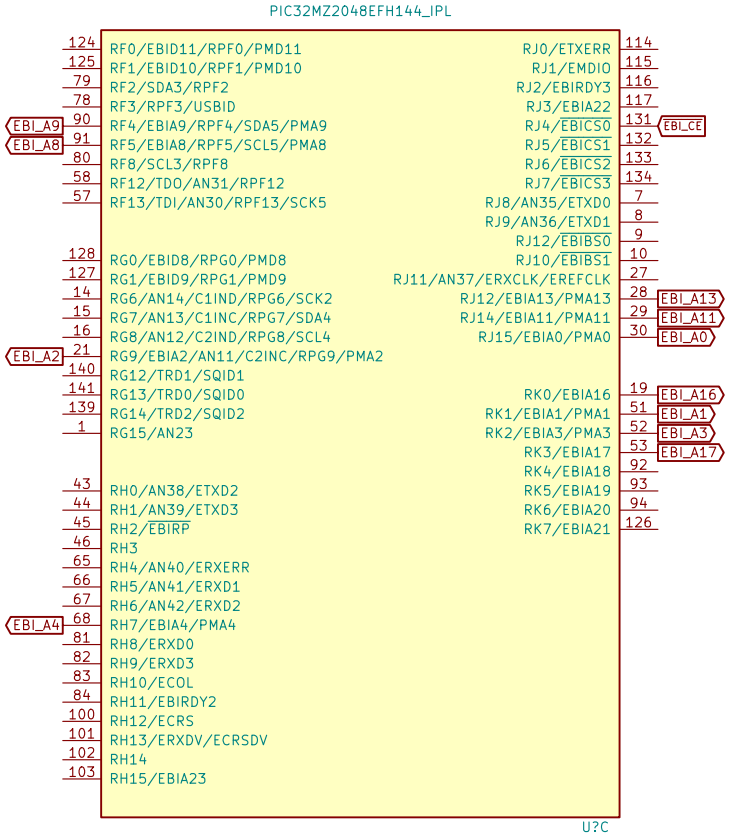

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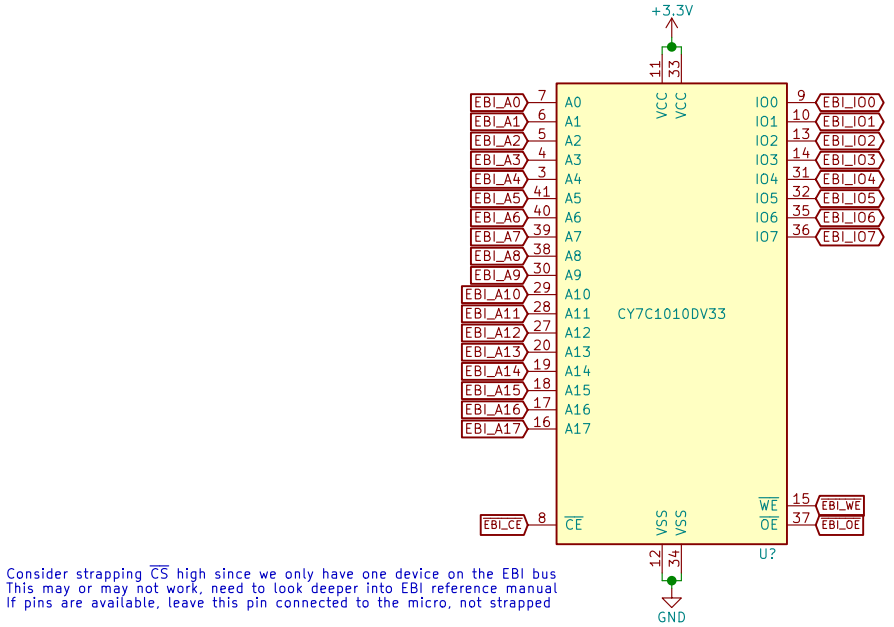
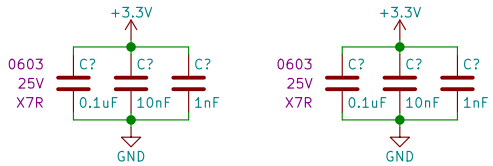


Consider strapping $\overline{CS}$ high since we only have one device on the EBI bus
This may or may not work, need to look deeper into EBI reference manual
If pins are available, leave this pin connected to the micro, not strapped



Sheet: /External SRAM/
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Title:

Size: A	Date:	**Rev:**
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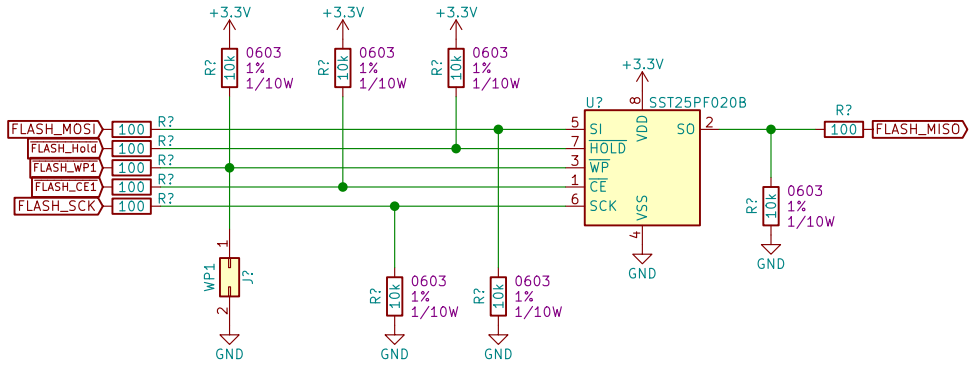

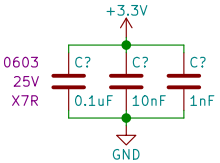

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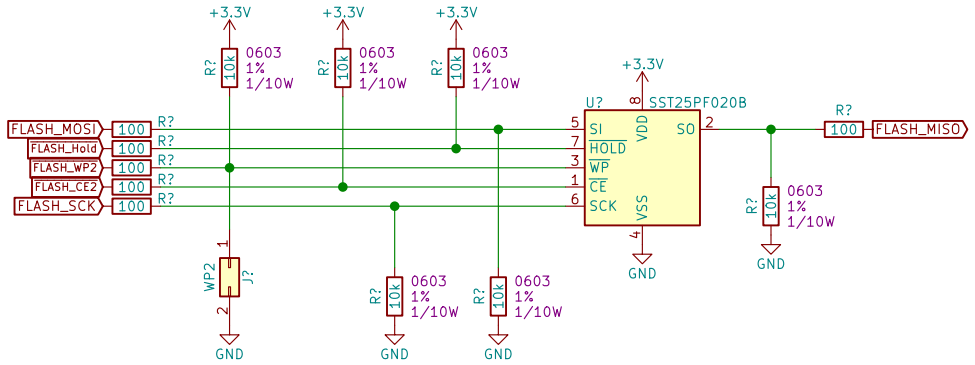

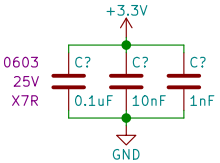

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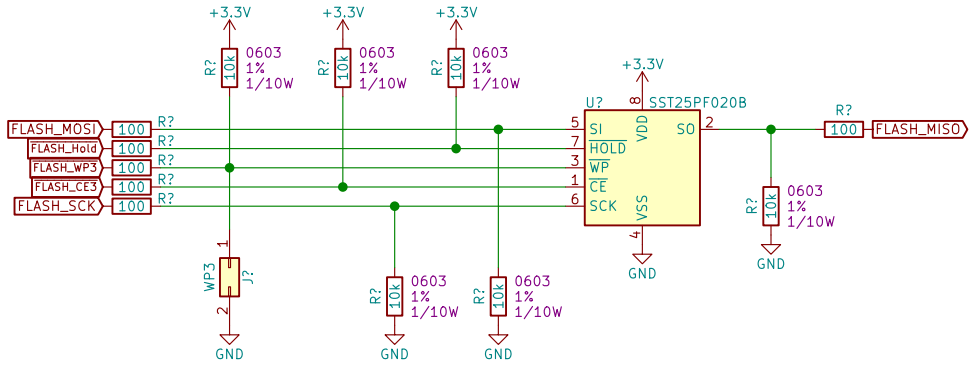

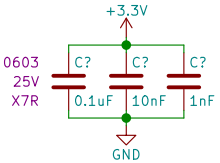

Sheet: /External Flash 3/
File: External_Flash_3.sch

Title:

Size: A	Date:	**Rev:**
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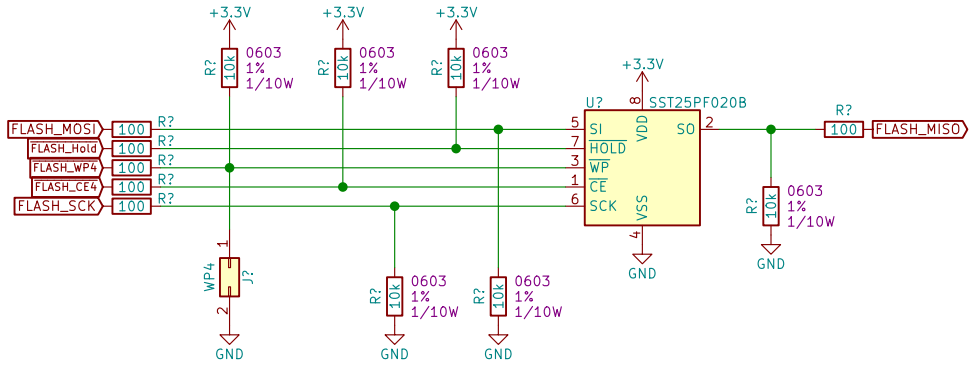

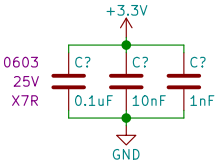

Sheet: /External Flash 4/		
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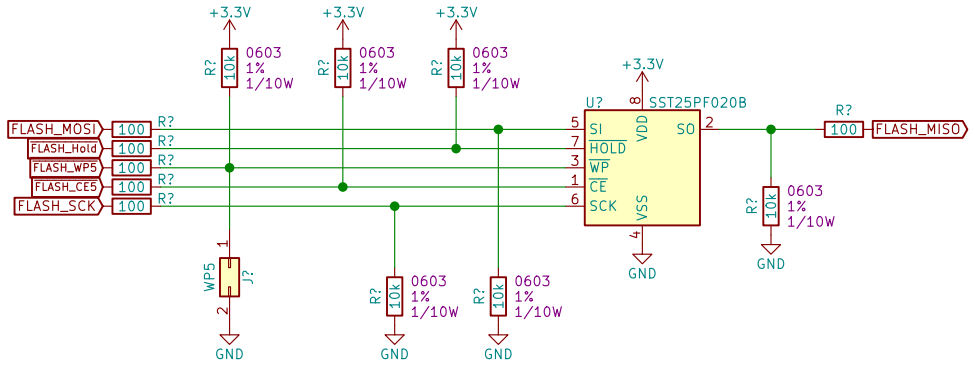

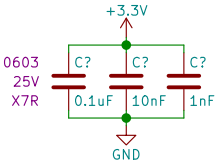

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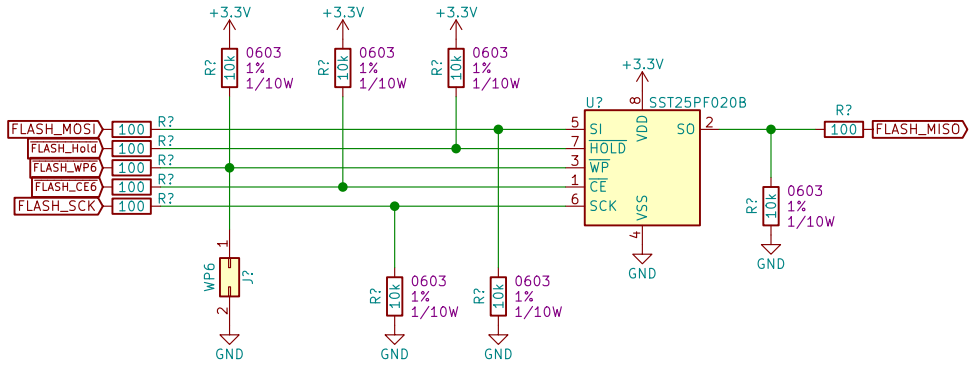

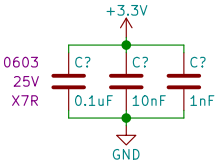

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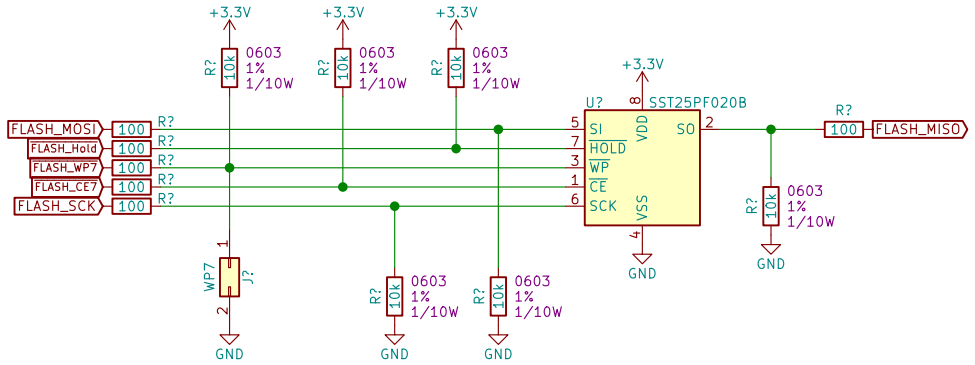

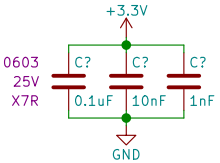

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Title:		
Size: A	Date:	**Rev:**
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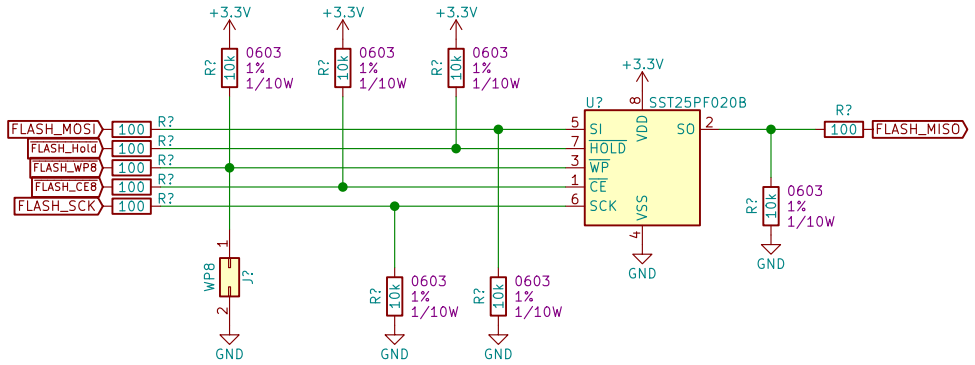

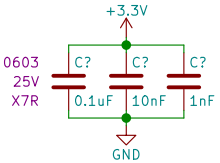

Sheet: /External Flash 8/ File: External_Flash_8.sch		
Title:		
Size: A	Date:	**Rev:**
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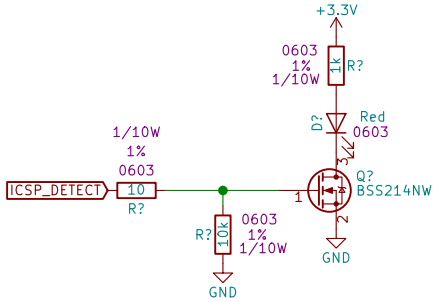
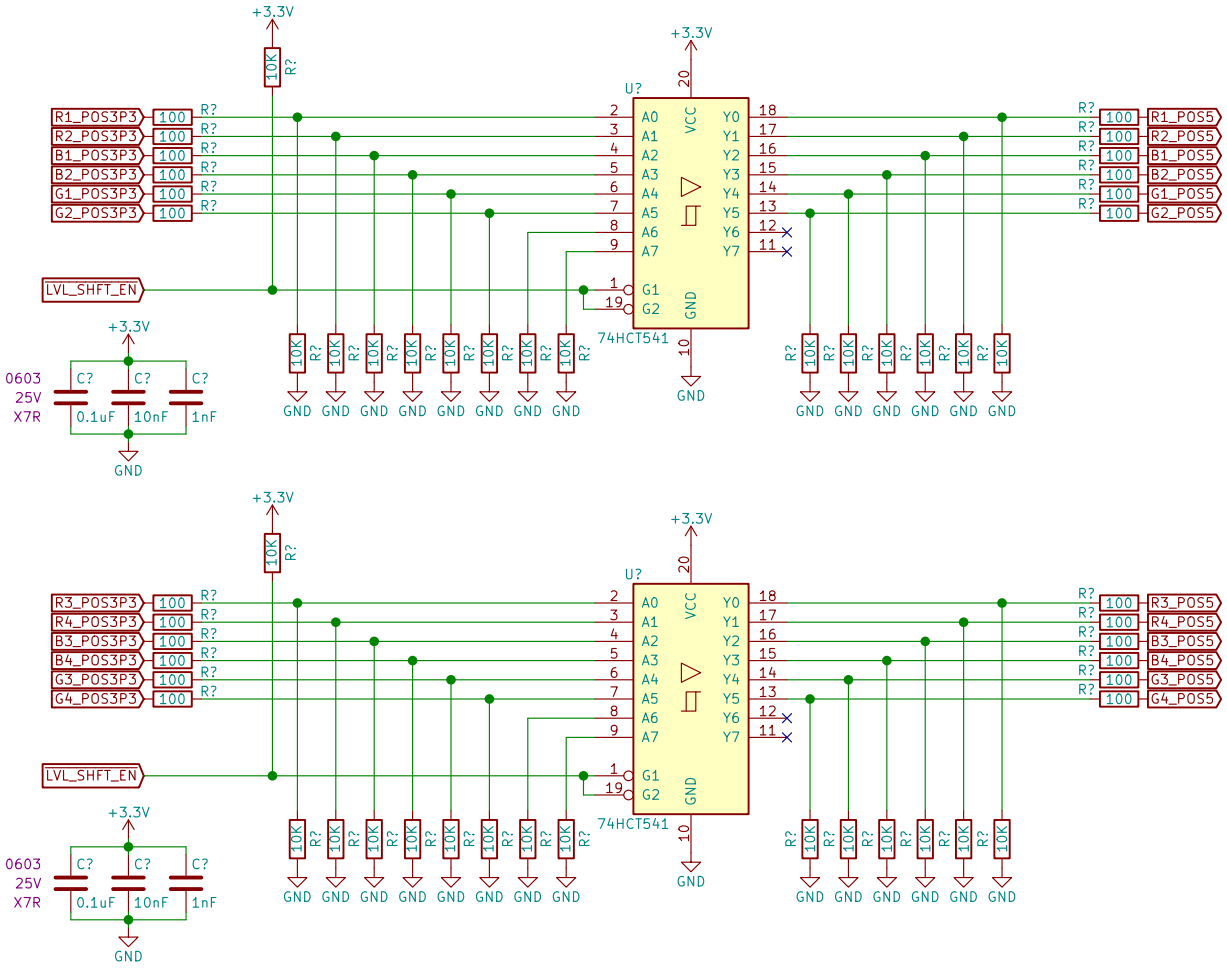
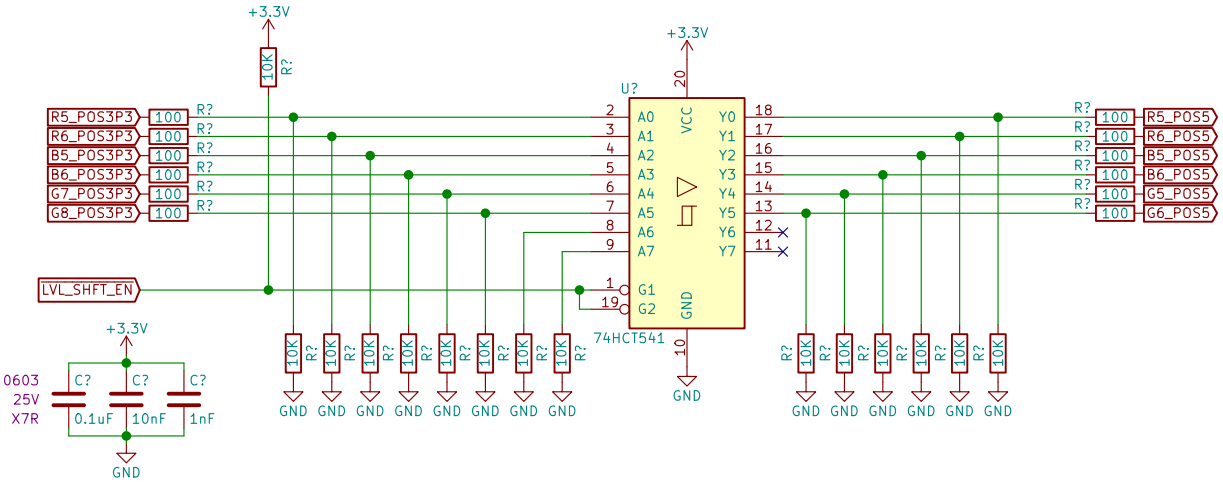
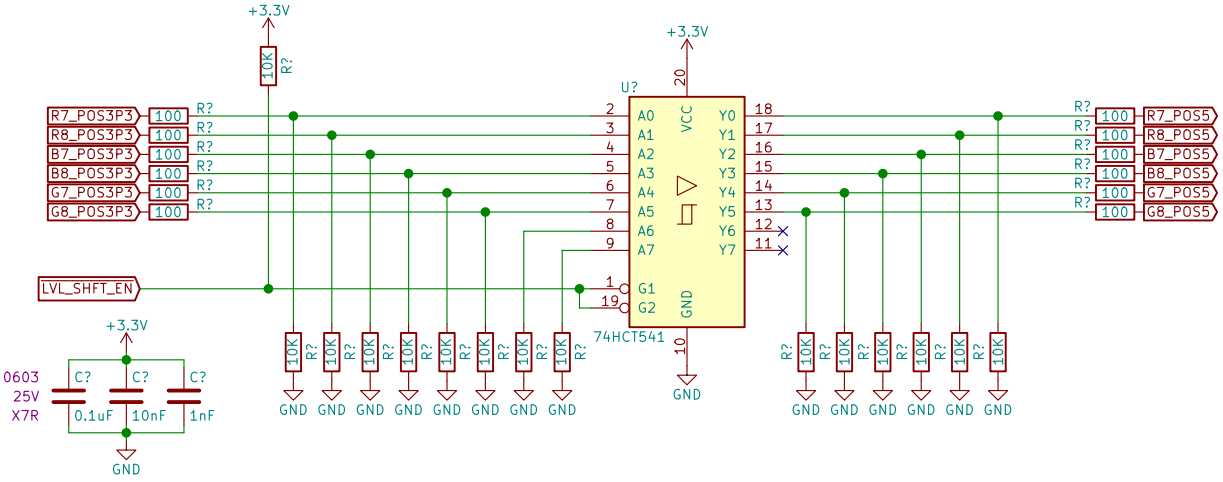


Sheet: /Status LEDs 1/		
File: Status_LEDs_1.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 22/32

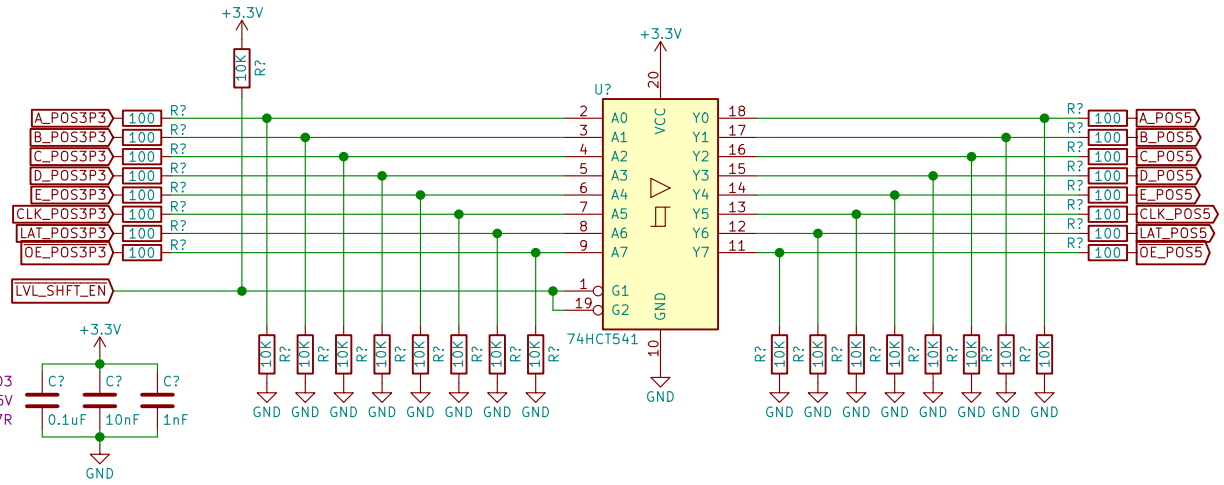


Sheet: /Panel Data Level Shifters 1/		
File: Panel_Data_Level_Shifters_1.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 23/32





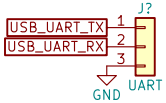
Sheet: /Panel Data Level Shifters 2/		
File: Panel_Data_Level_Shifters_2.sch		
Title:		
Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 24/32

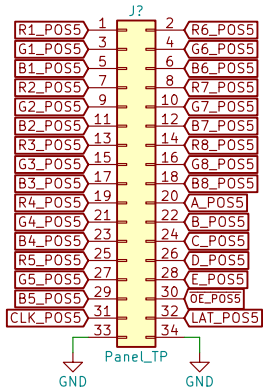


Sheet: /Panel Data Level Shifters 3/
File: Panel_Data_Level_Shifters_3.sch

Title:

Size: A	Date:	**Rev:**
KiCad E.D.A. kicad (5.0.0)		Id: 25/32





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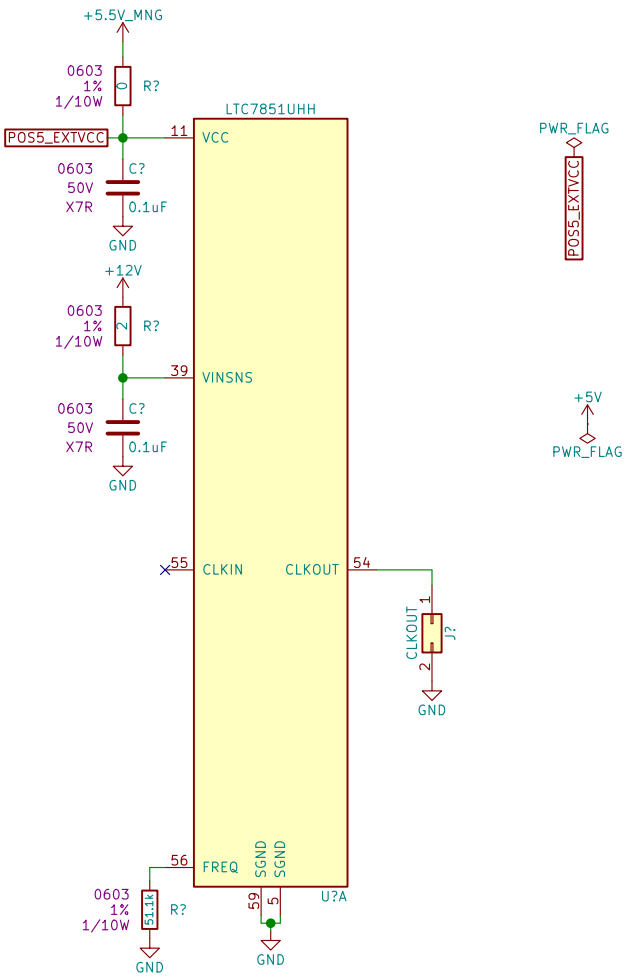
+5V Control



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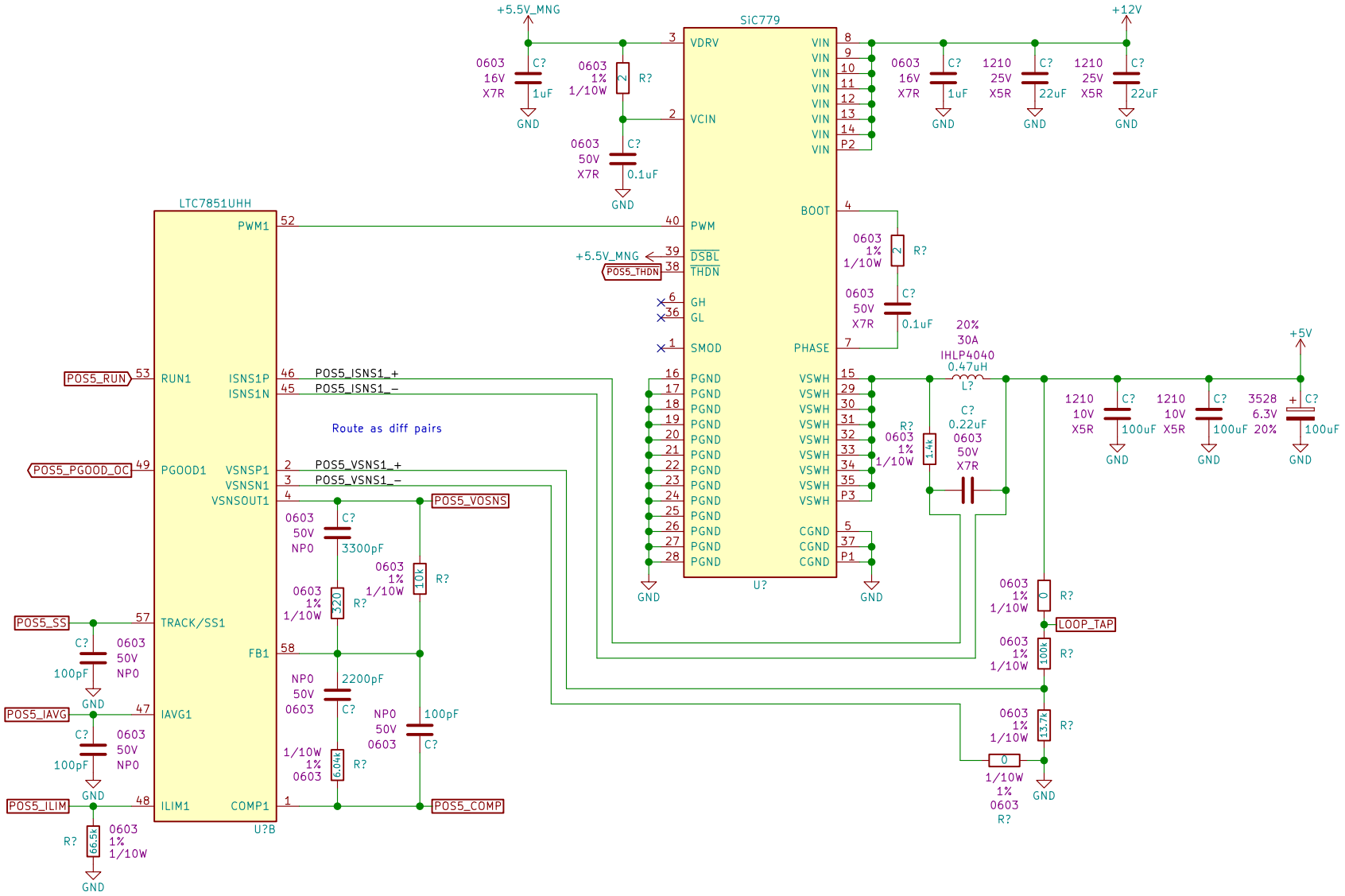
+5V Phase 1



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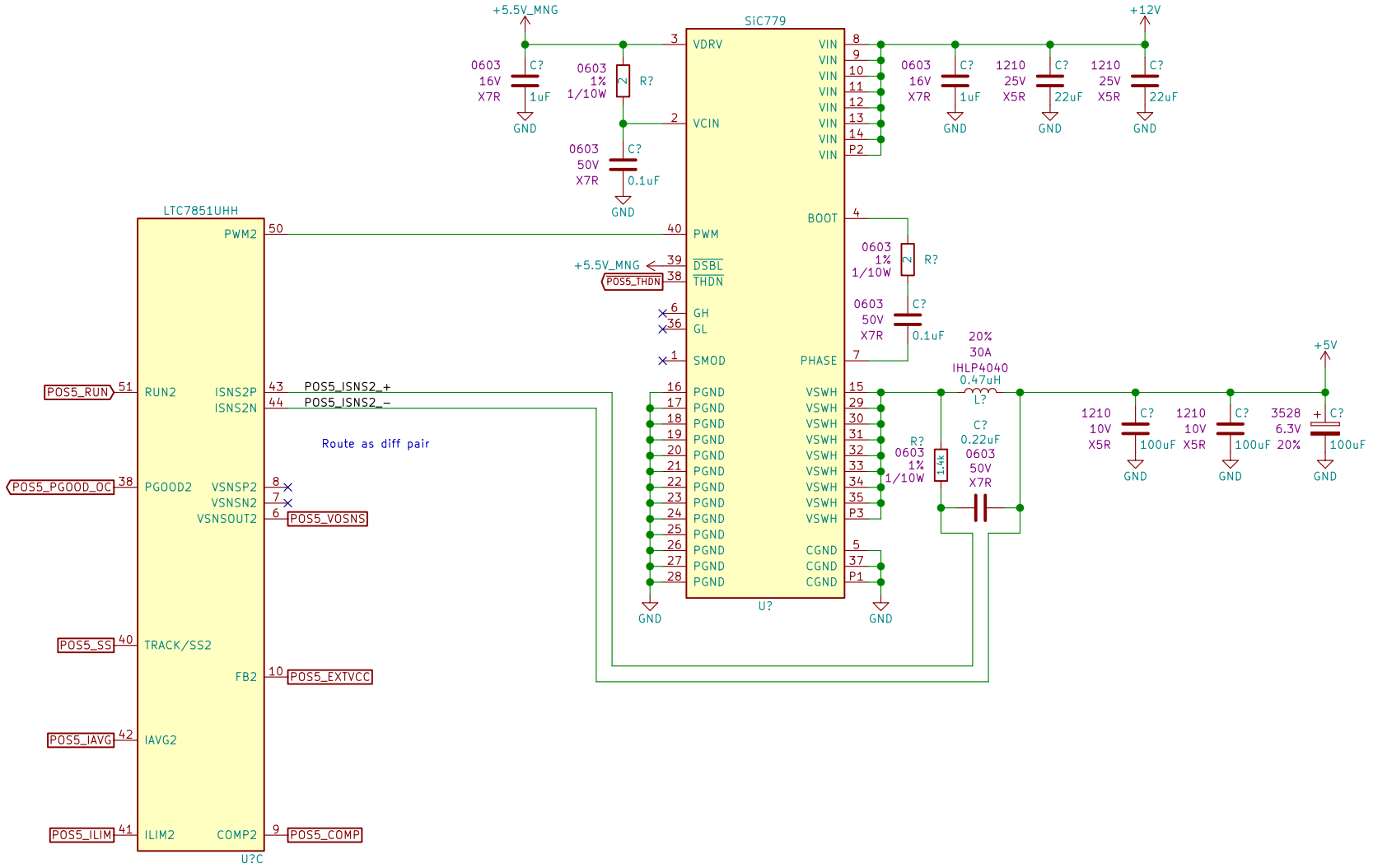
+5V Phase 2



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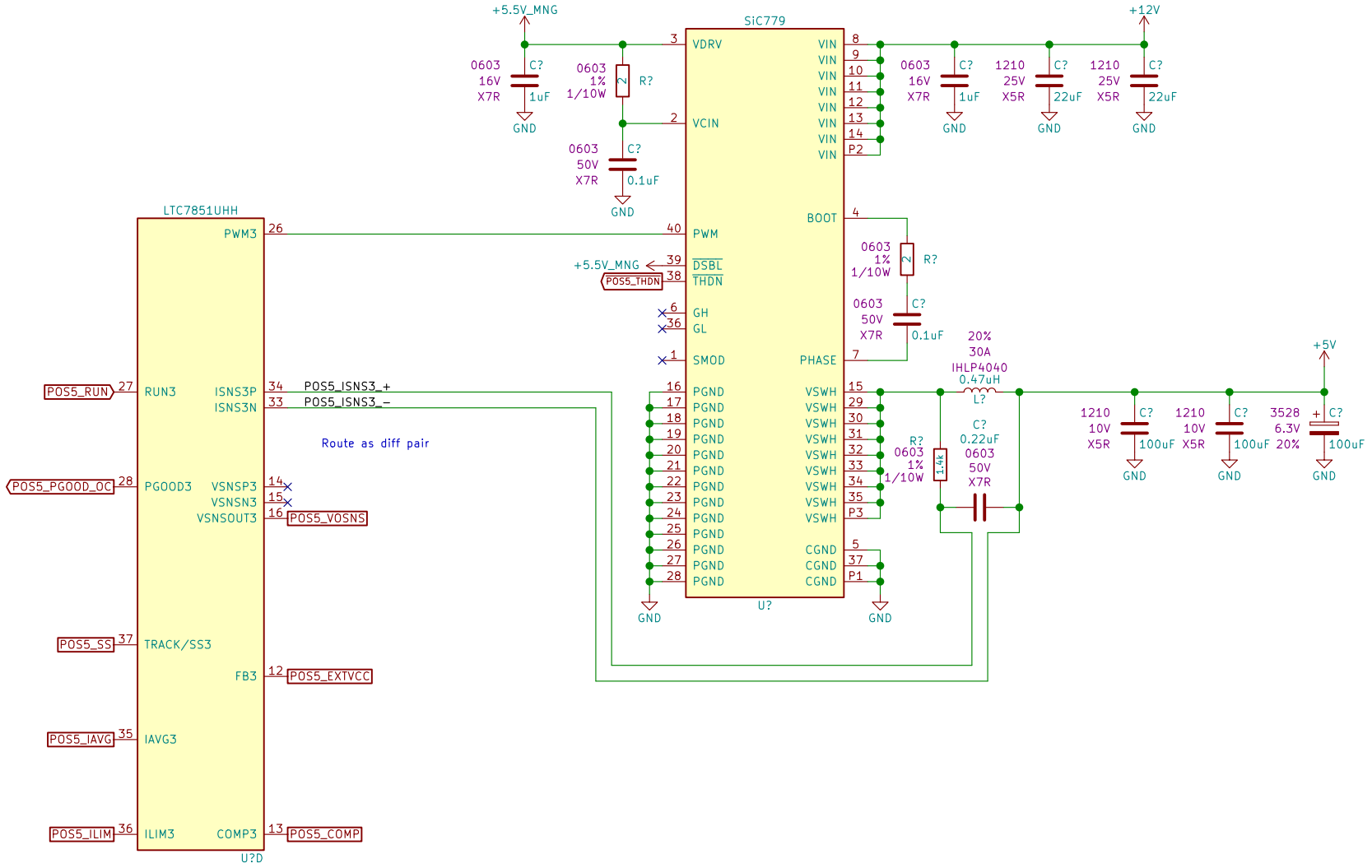
+5V Phase 3



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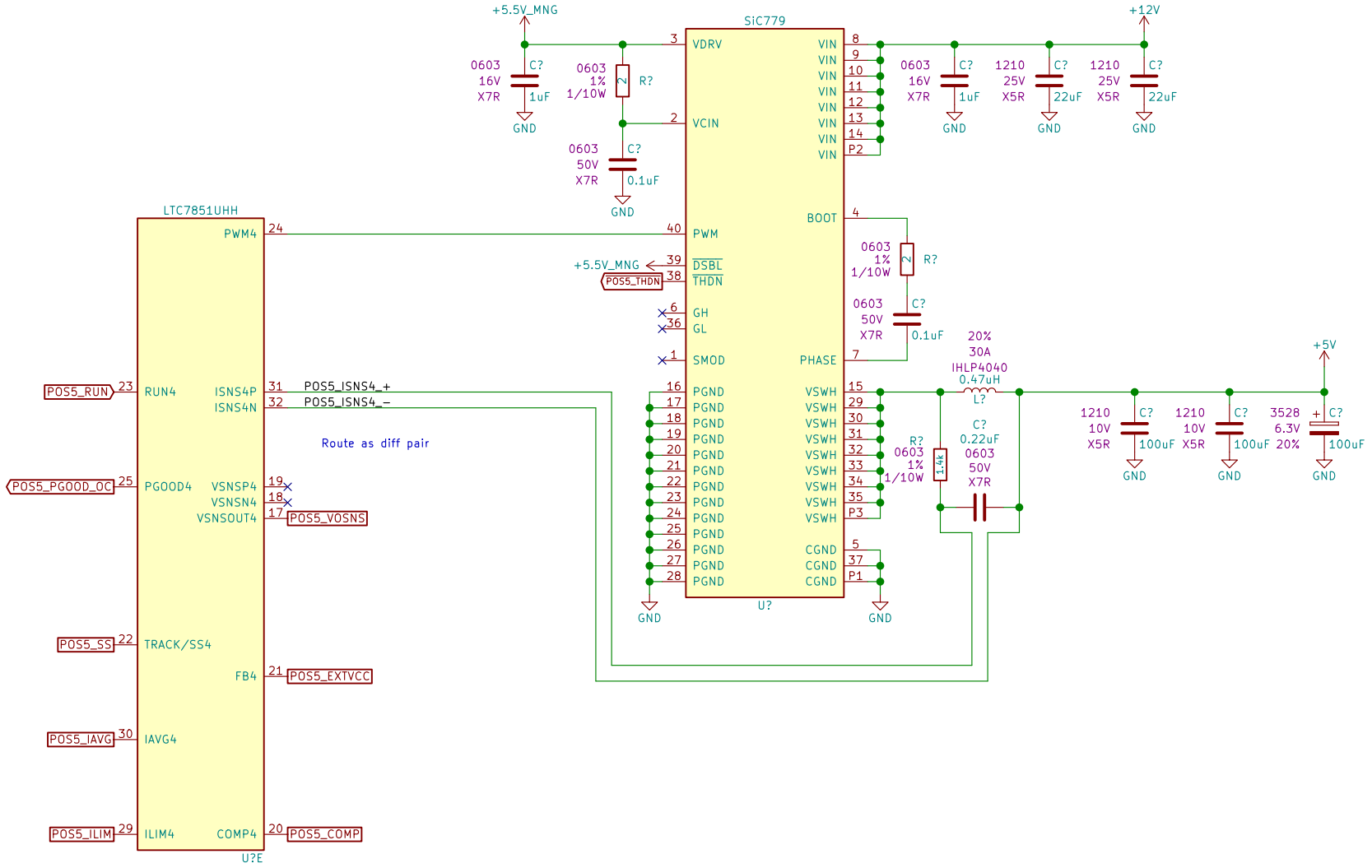
+5V Phase 4



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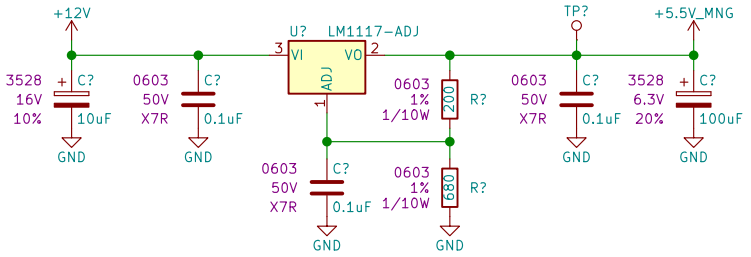
+5.5V MNG LDO



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