

	1	2	3	4	5	
A		<div>Power Input</div> <div>Power_Input.sch</div> <div>POS3P3 Power Supply</div> <div>POS3P3_Power_Supply.sch</div> <div>Microcontroller Programming</div> <div>Microcontroller_Programming.sch</div> <div>WiFi Module</div> <div>Wi-Fi_Module.sch</div> <div>USB UART Isolation</div> <div>USB_UART_Isolation.sch</div> <div>USB UART Bridge</div> <div>USB_UART_Bridge.sch</div> <div>Panel Data Connectors</div> <div>Panel_Data_Connectors.sch</div>		<div>External SRAM</div> <div>External_SRAM.sch</div> <div>External Flash 1</div> <div>External_Flash_1.sch</div> <div>External Flash 2</div> <div>External_Flash_2.sch</div> <div>External Flash 3</div> <div>External_Flash_3.sch</div> <div>External Flash 4</div> <div>External_Flash_4.sch</div> <div>External Flash 5</div> <div>External_Flash_5.sch</div> <div>External Flash 6</div> <div>External_Flash_6.sch</div> <div>External Flash 7</div> <div>External_Flash_7.sch</div> <div>External Flash 8</div> <div>External_Flash_8.sch</div> <div>Status LEDs 1</div> <div>Status_LEDs_1.sch</div> <div>Panel Data Level Shifters 1</div> <div>Panel_Data_LevelShifters_1.sch</div> <div>Panel Data Level Shifters 2</div> <div>Panel_Data_LevelShifters_2.sch</div> <div>Panel Data Level Shifters 3</div> <div>Panel_Data_LevelShifters_3.sch</div> <div>Test Points</div> <div>Test_Points.sch</div>		A
B						B
C						C
D						D

To Do List:

- * Mechanical sheet
- * Decide on input power supply (AC/DC)
- * Add status LEDs, PGOOD stuff
- * Add 5V Monitoring
- * Evaluate Micro AVDD/AVSS filter
- * Add on/off pushbutton
- * Add master brightness encoder
- * Copy LTC7851_Demo into repo
- * 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 notes to USB sheet
- * Generate netlist
- * Generate BOM

Sheet: /
File: LED_Display_Controller.sch

Title:

Size: A

Date:

Rev:

KiCad E.D.A. kicad (5.0.1)–3

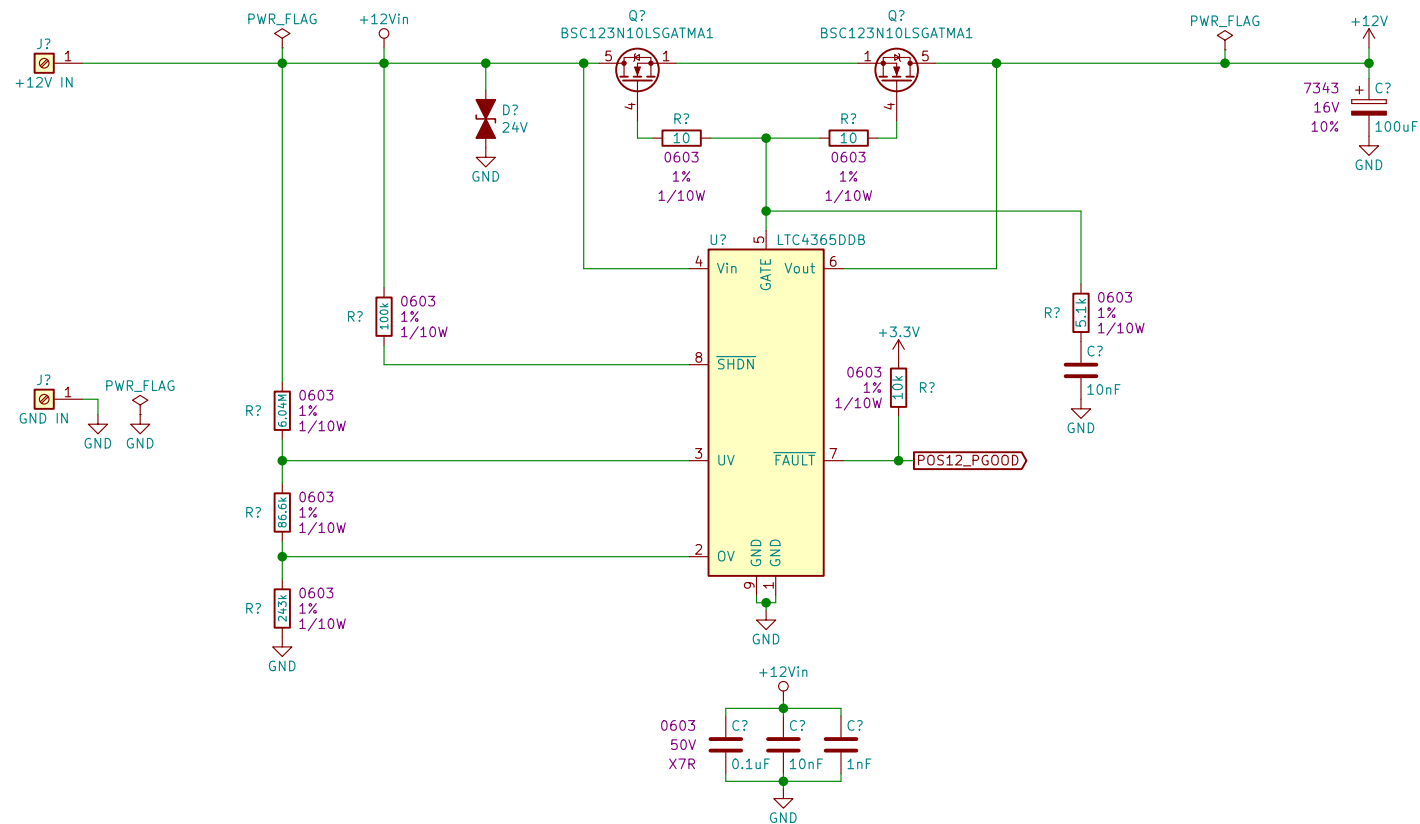
Id: 1/25

- To Do List:
- * Mechanical sheet
 - * Decide on input power supply (AC/DC)
 - * Add status LEDs, PGOOD stuff
 - * Add 5V Monitoring
 - * Evaluate Micro AVDD/AVSS filter
 - * Add on/off pushbutton
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 - * Draw custom footprints
 - * Assign footprints
 - * Run ERC, resolve errors
 - * Add firmware notes sheet
 - * Add COM port settings notes to USB sheet
 - * Generate netlist
 - * Generate BOM

Sheet: / File: LED_Display_Controller.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)–3		Id: 1/25

Power Input

Choose NMOS, copy from nixie clock



Sheet: /Power Input/
File: Power_Input.sch

Title:

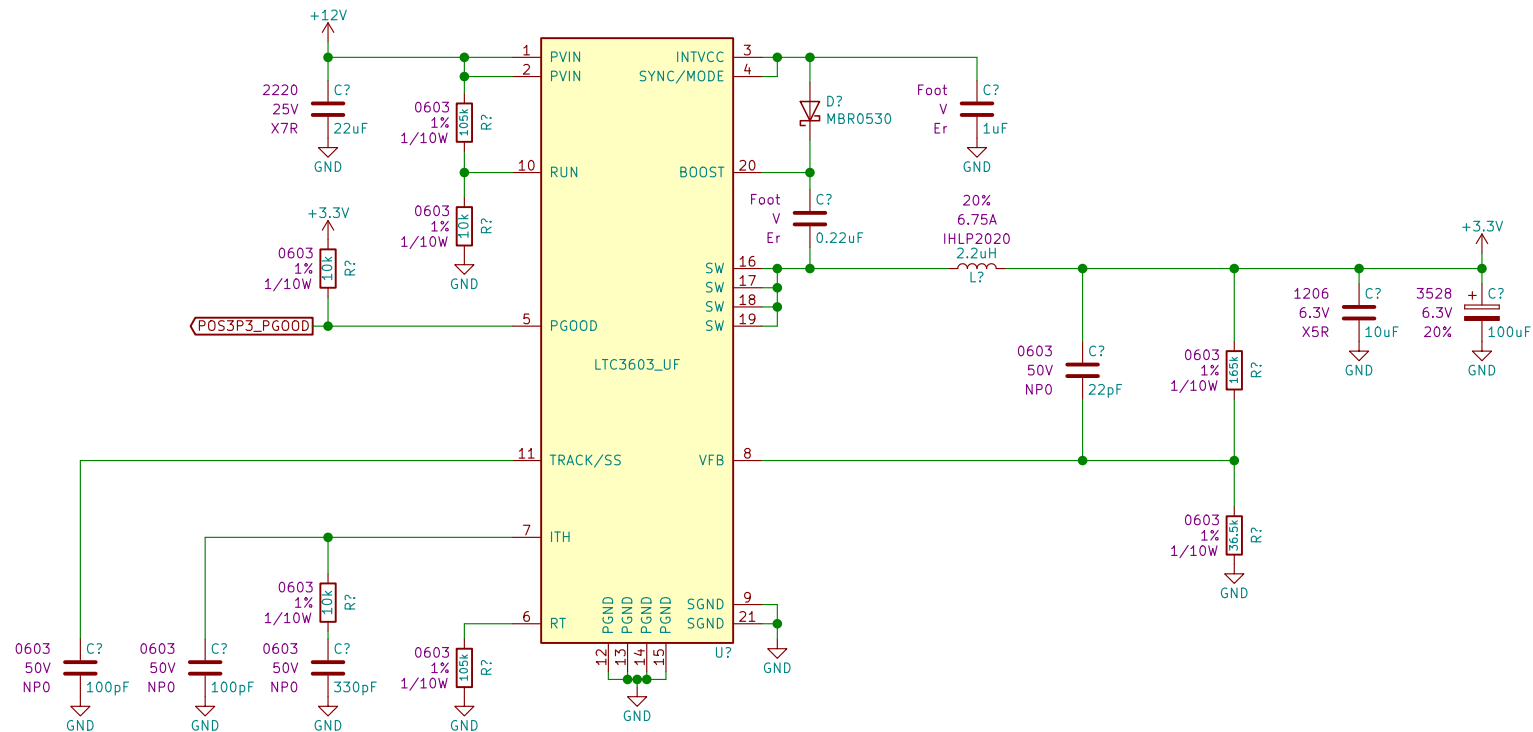
Size: A

Date:

Size: A	Date:
KiCad E.D.A.	kicad (5.0.1)-3

Rev:

Id: 2/25



Sheet: /POS3P3 Power Supply/
File: POS3P3_Power_Supply.sch

Title:

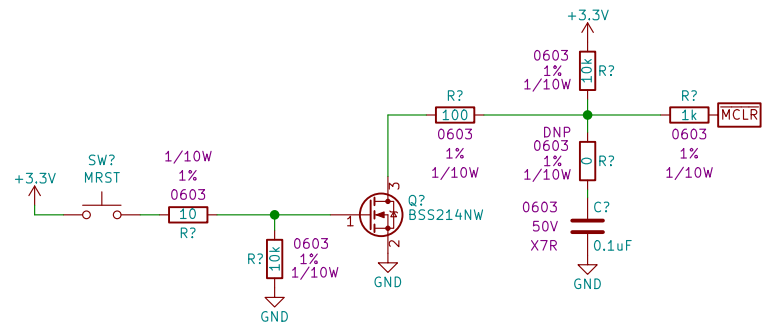
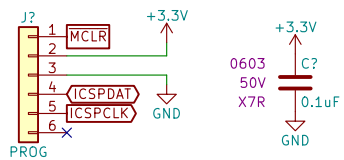
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 3/25



Sheet: /Microcontroller Programming/
File: Microcontroller_Programming.sch

Title:

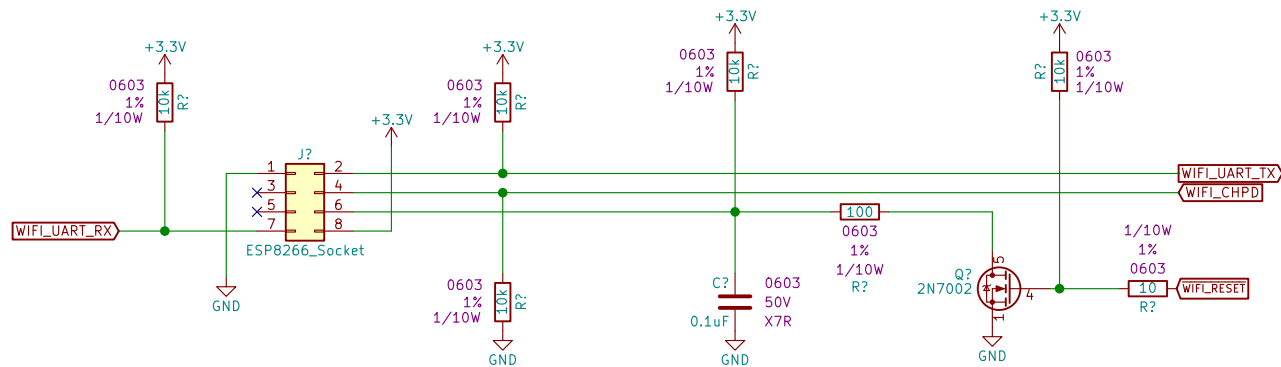
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 4/25



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:

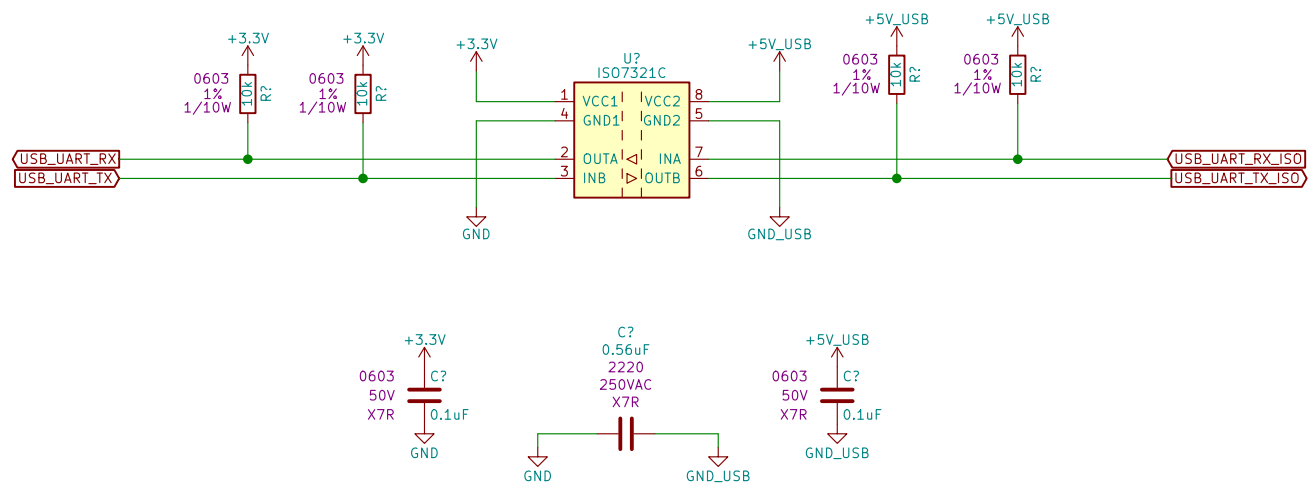
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 5/25



Sheet: /USB UART Isolation/
File: USB_UART_Isolation.sch

Title:

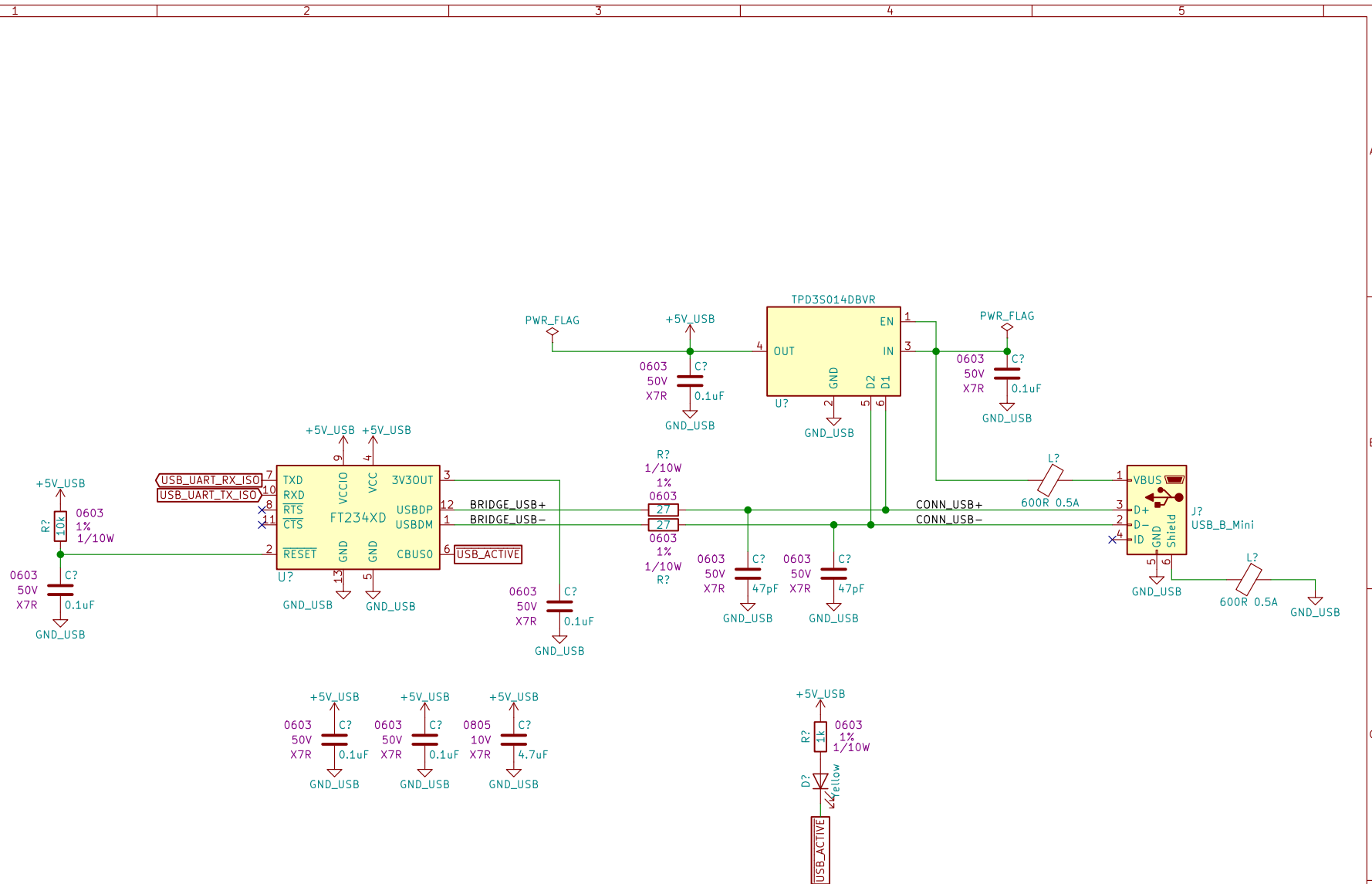
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 6/25



Sheet: /USB UART Bridge/
File: USB_UART_Bridge.sch

Title:

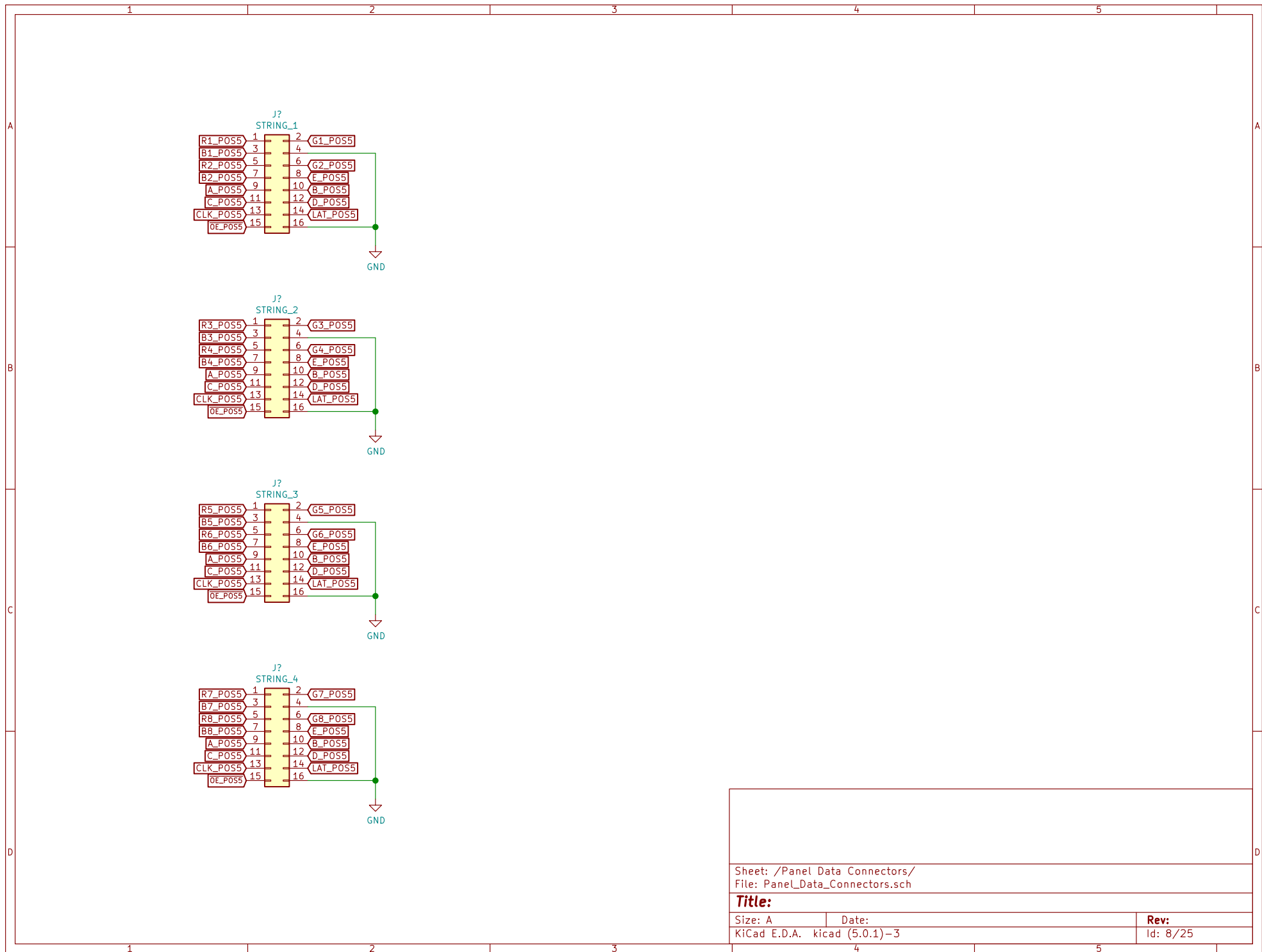
Size: A

Date:

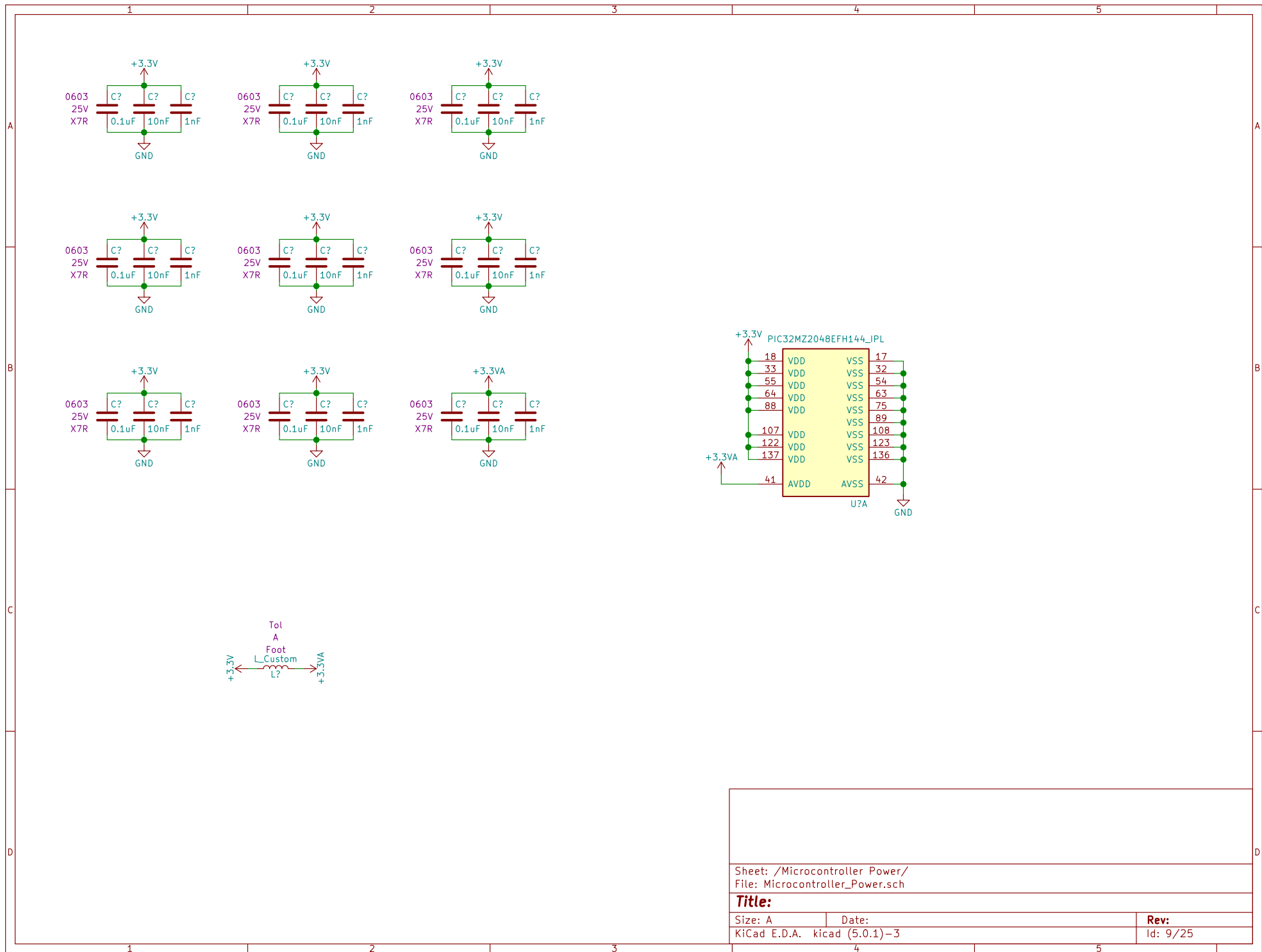
KiCad E.D.A. kicad (5.0.1)-3

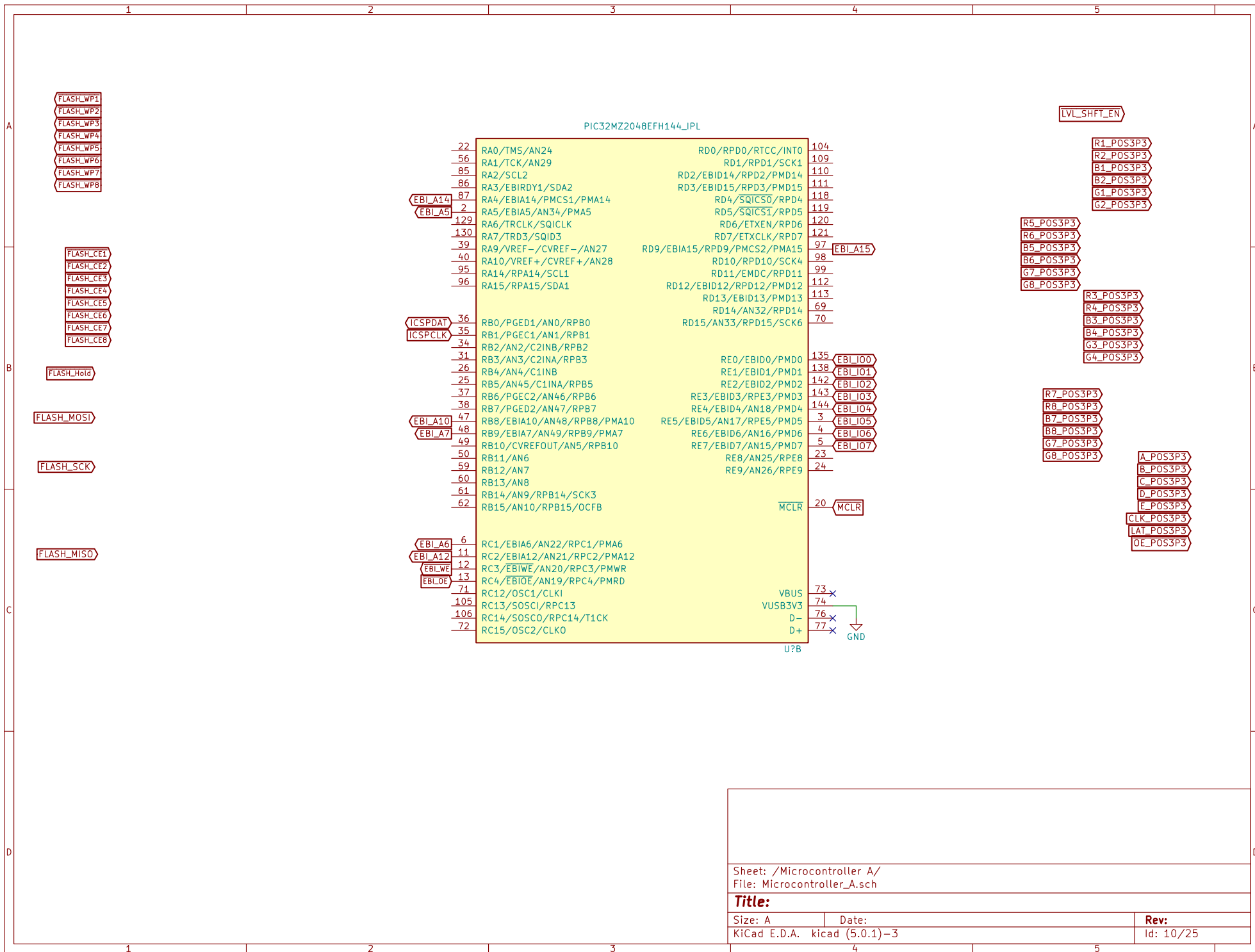
Rev:

Id: 7/25



Sheet: /Panel Data Connectors/ File: PanelData_Connectors.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)–3		Id: 8/25

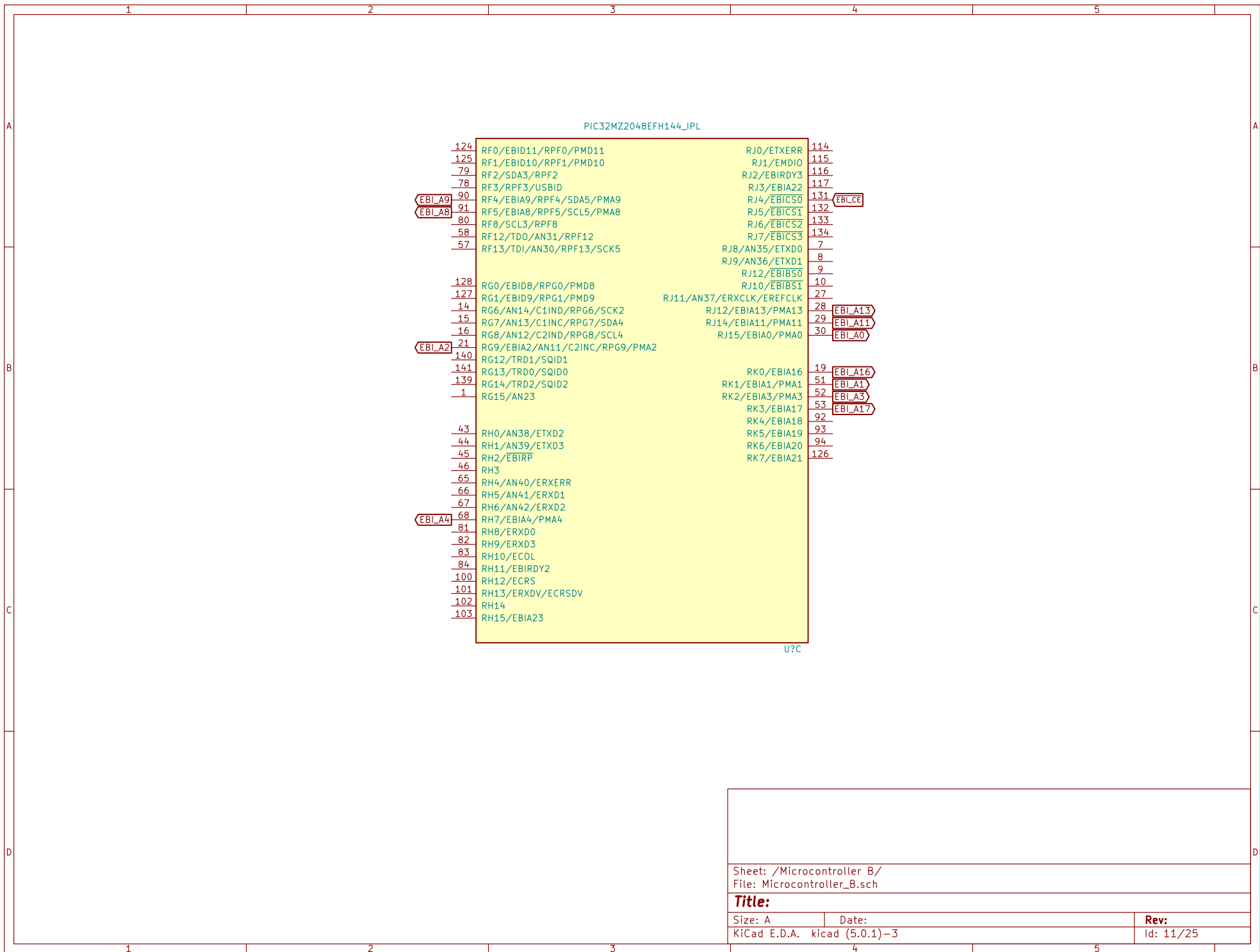




Sheet: /Microcontroller A/
File: Microcontroller_A.sch

Title:

Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 10/25



Sheet: /Microcontroller B/
File: Microcontroller_B.sch

Title:

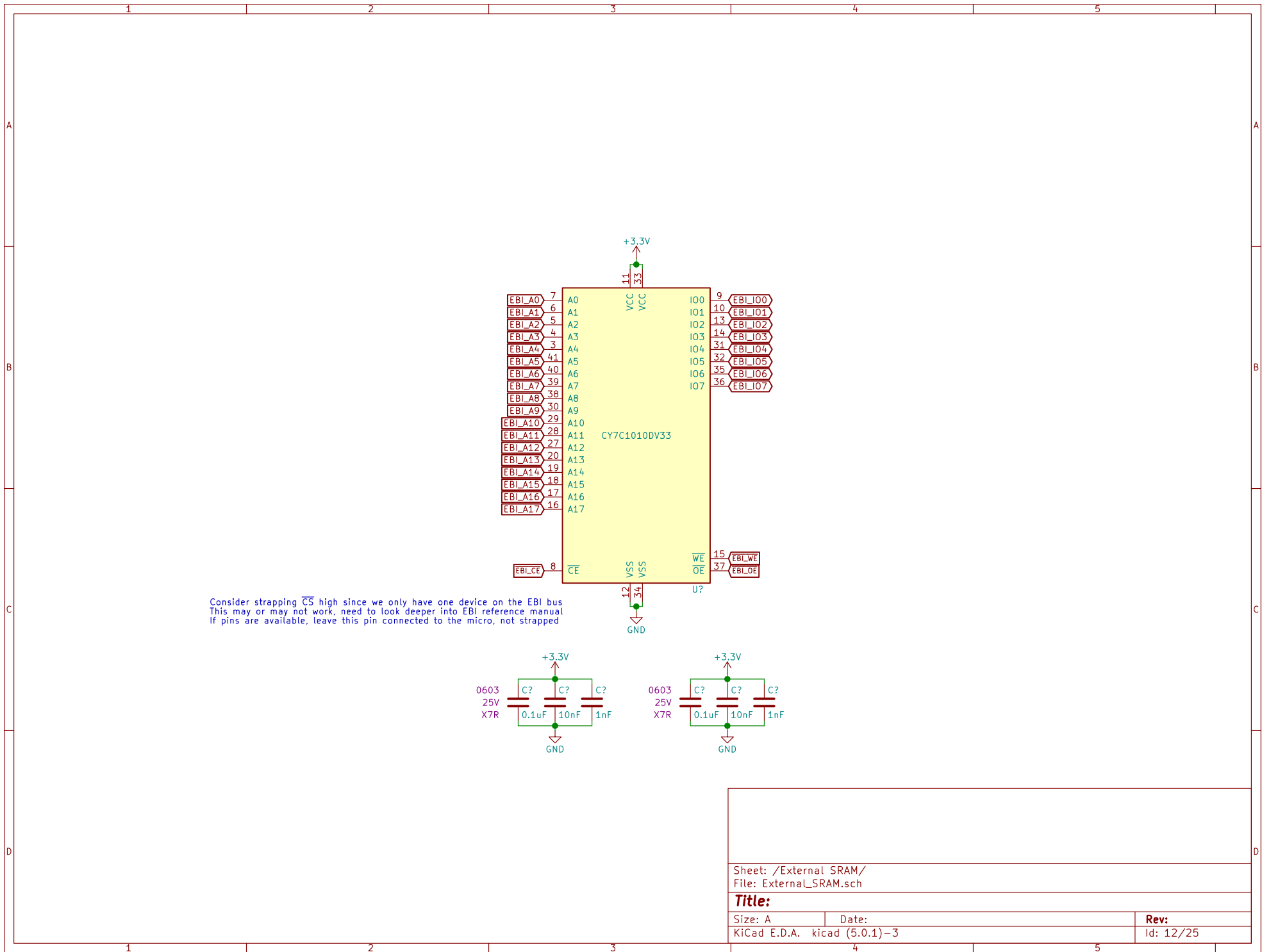
Size: A

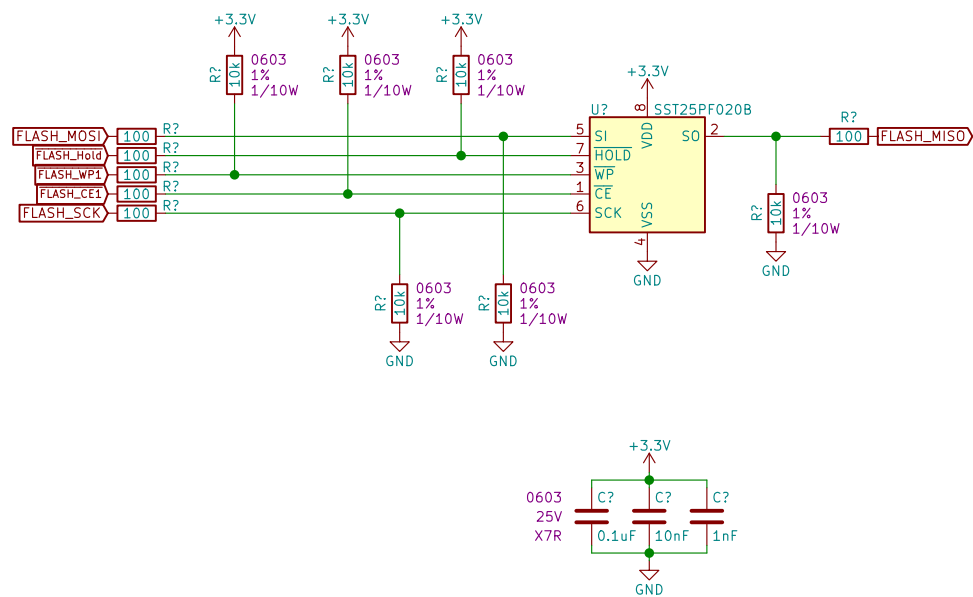
Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 11/25





Sheet: /External Flash 1/
File: External_Flash_1.sch

Title:

Size: A

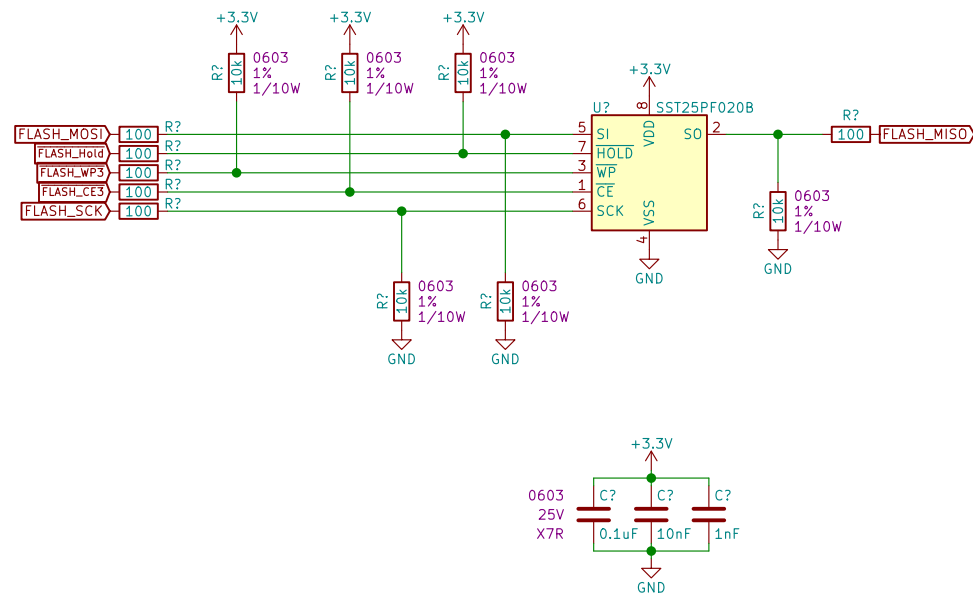
Date:

KiCad E.D.A. kicad (5.0.1)-3

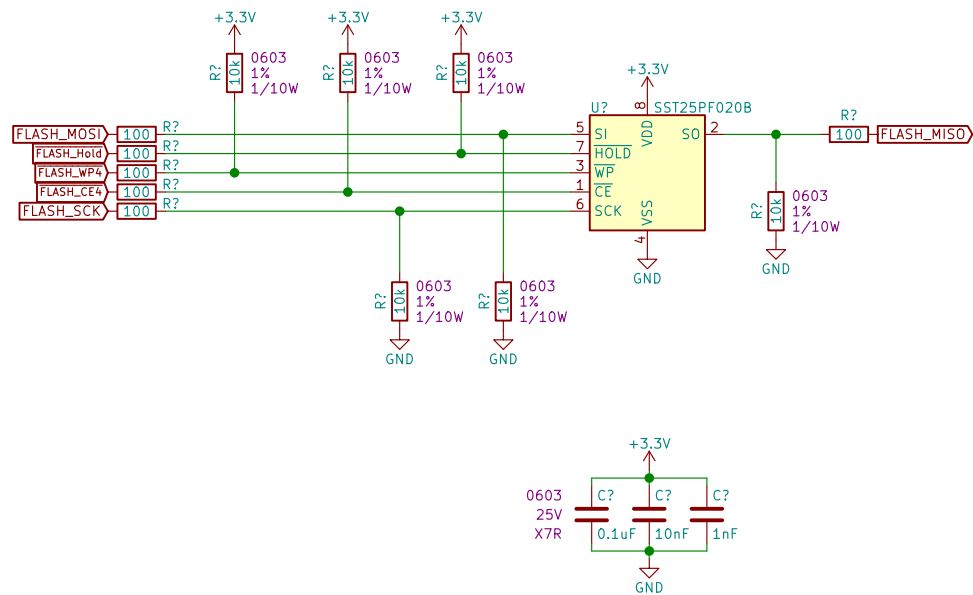
Rev:

Id: 13/25





Sheet: /External Flash 3/ File: External_Flash_3.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 15/25



Sheet: /External Flash 4/
File: External_Flash_4.sch

Title:

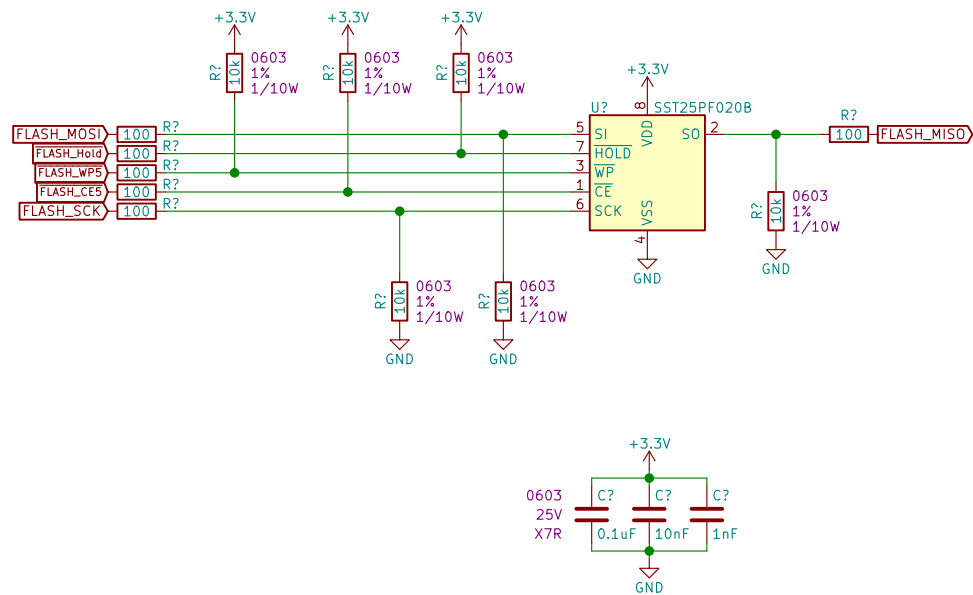
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 16/25



Sheet: /External Flash 5/
File: External_Flash_5.sch

Title:

Size: A

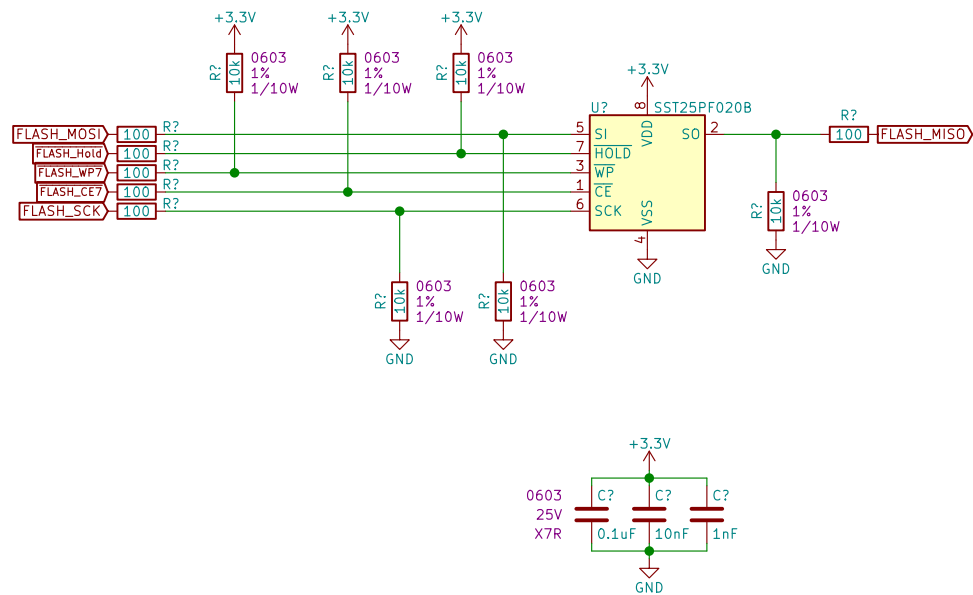
Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 17/25





Sheet: /External Flash 7/
File: External_Flash_7.sch

Title:

Size: A

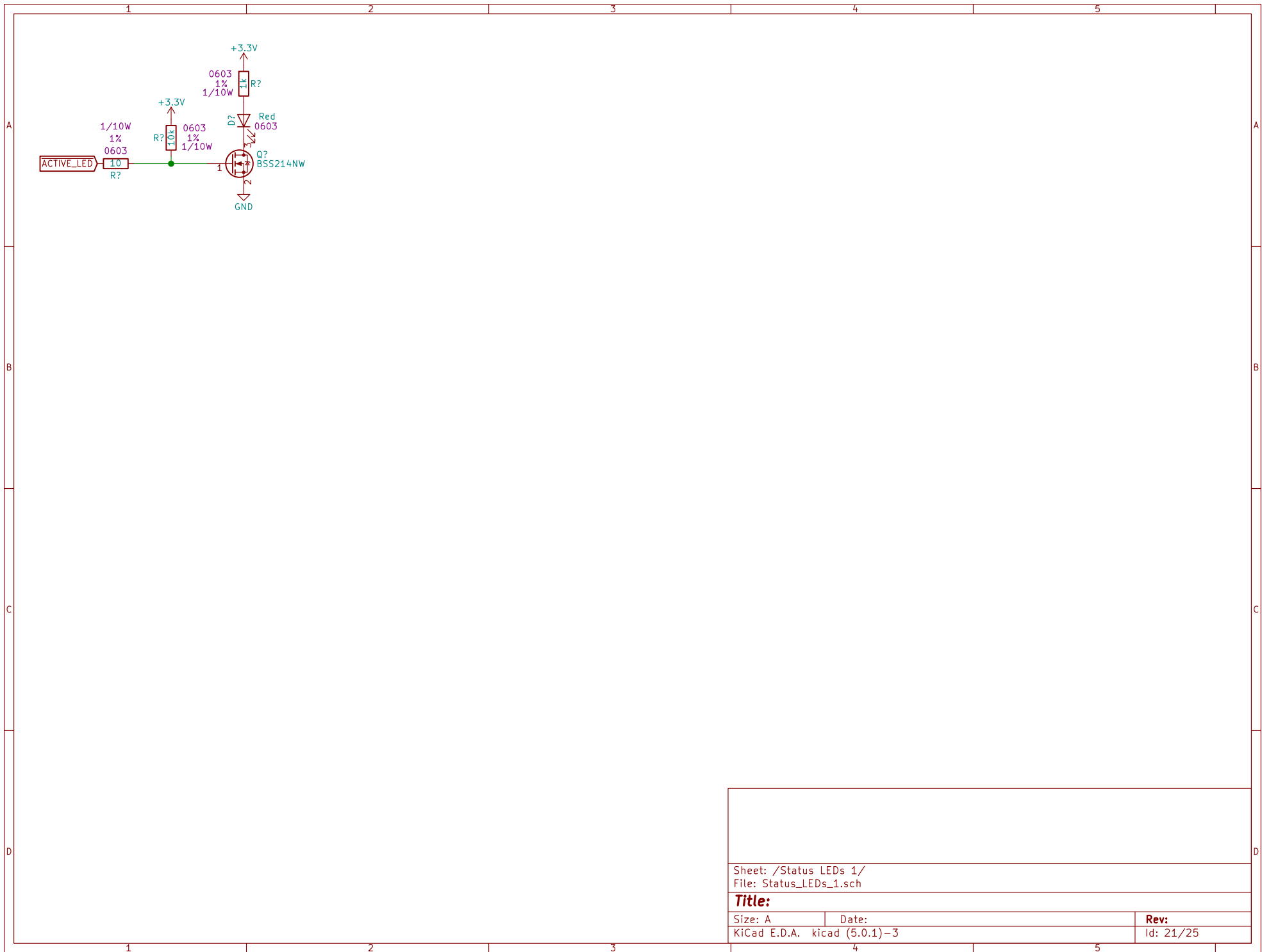
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KiCad E.D.A. kicad (5.0.1)-3

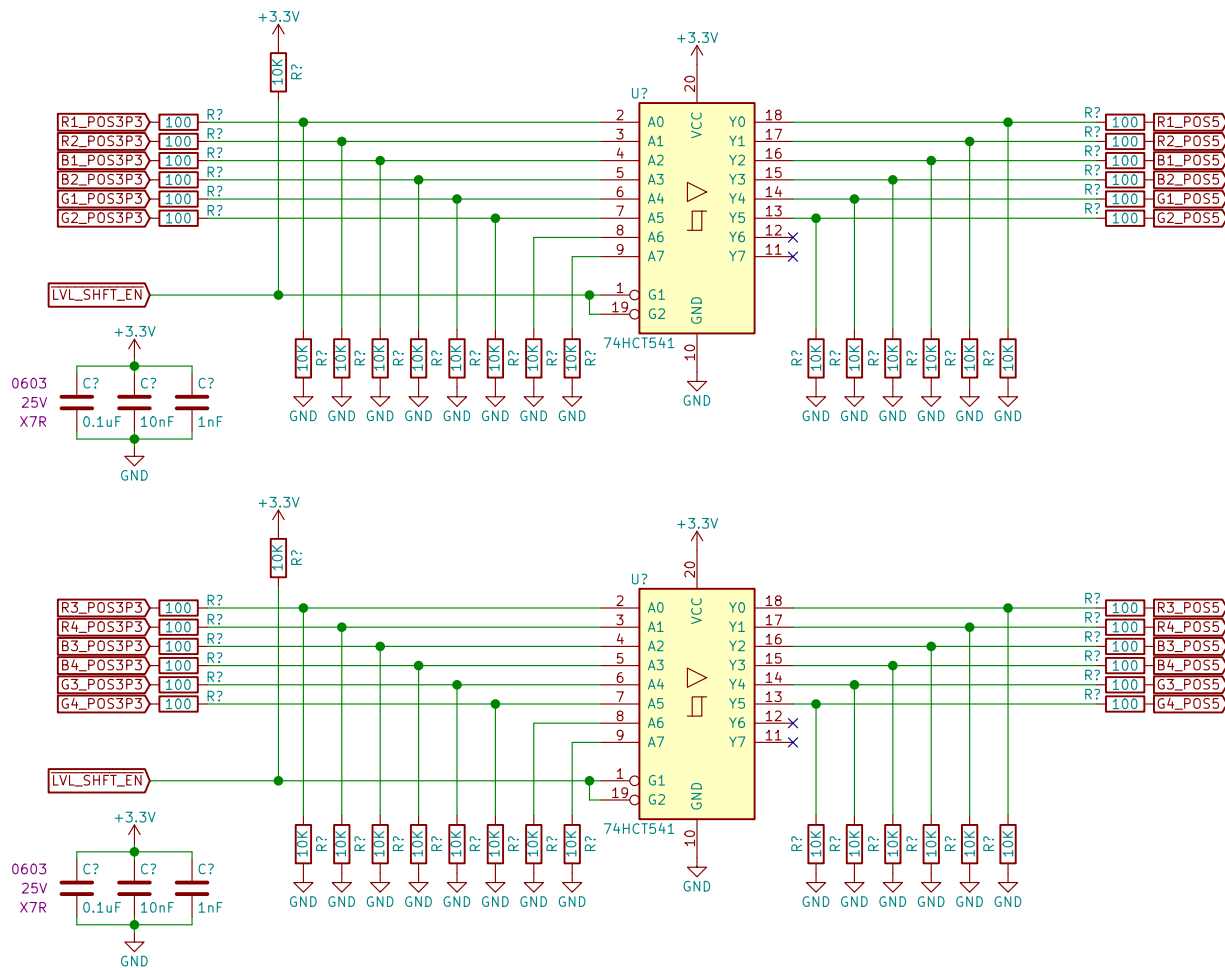
Rev:

Id: 19/25





Sheet: /Status LEDs 1/ File: Status_LEDs_1.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 21/25

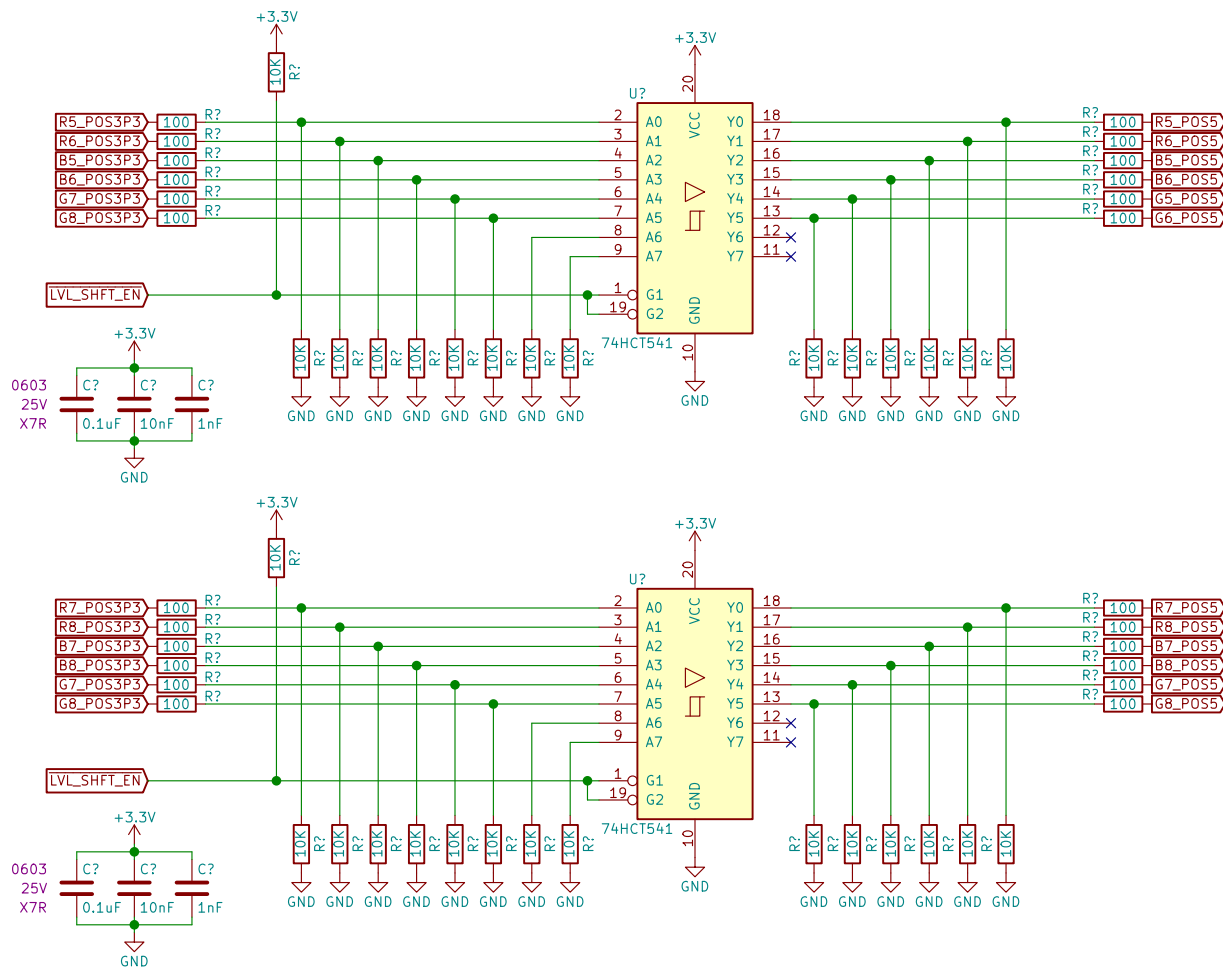


Sheet: /Panel Data Level Shifters 1/
File: PanelData_LevelShifters_1.sch

Title:

Size: A Date:
KiCad E.D.A. kicad (5.0.1)-3

Rev:
Id: 22/25

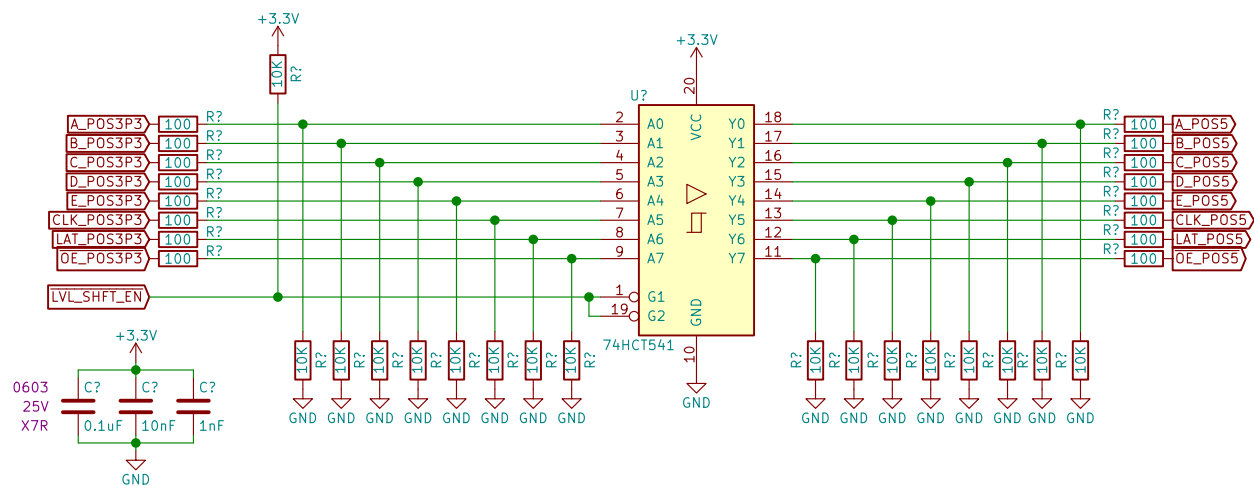


Sheet: /Panel Data Level Shifters 2/
File: PanelData_LevelShifters_2.sch

Title:

Size: A Date:
KiCad E.D.A. kicad (5.0.1)-3

Rev:
Id: 23/25



Sheet: /Panel Data Level Shifters 3/
File: PanelData_LevelShifters_3.sch

Title:

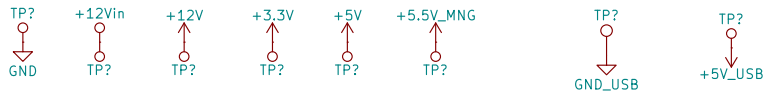
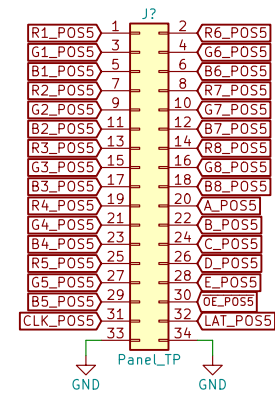
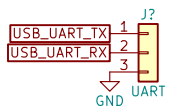
Size: A

Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 24/25



Sheet: /Test Points/ File: Test_Points.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 25/25