

PSOC™ Edge E8 Base Board

CONTENTS	
PAGE	DESCRIPTION
01	Title Page
02	Power Block Diagram
03	System Block Diagram
04	Power Supply 1
05	Power Supply 2
06	Power Supply 3
07	Power Supply 4
08	Power Supply 5
09	Device USB Type-C
10	Type-C USB Controller
11	Type-C Device Pwr. Config.
12	P5LP Based KitProg3
13	Communication Interface 1
14	Communication Interface 2
15	Program/Debug Interface
16	SoM Interface 1
17	SoM Interface 2
18	Audio Class-D Amplifier
19	AMICs & DMICs
20	MicroSD Card & IMU

CONTENTS	
PAGE	DESCRIPTION
21	M.2 Memory SoM Interface
22	M.2 Radio SOM Interface
23	User Interfaces
24	Arduino Headers
25	Expansion Headers
26	Display DC-DC Converter
27	Display Backlight Driver
28	MIPI-DSI Display Interface
29	USB Host
30	Ethernet PHY
31	RJ45 MagJack
32	Accessories
33	Revision History

Drawing Numbers	
PCBA	121-60647-01
PCB	600-60647-01
FAB DRW	610-60647-01
ASSY DRW	620-60647-01
SCH DRW	630-60647-01

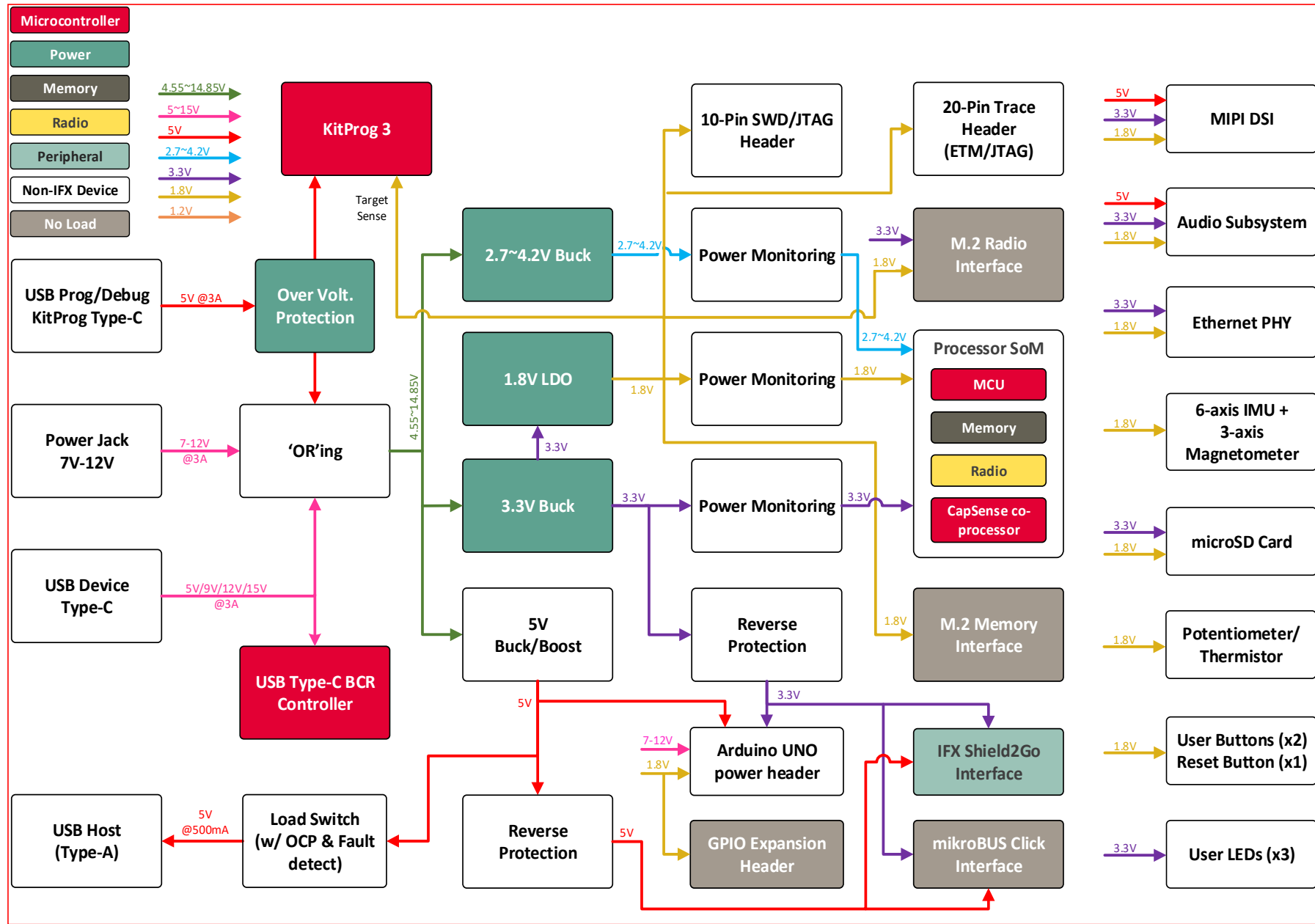
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Page Title: Title Page				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date: Monday, April 28, 2025		Sheet 1 of 33		



# Power Block Diagram



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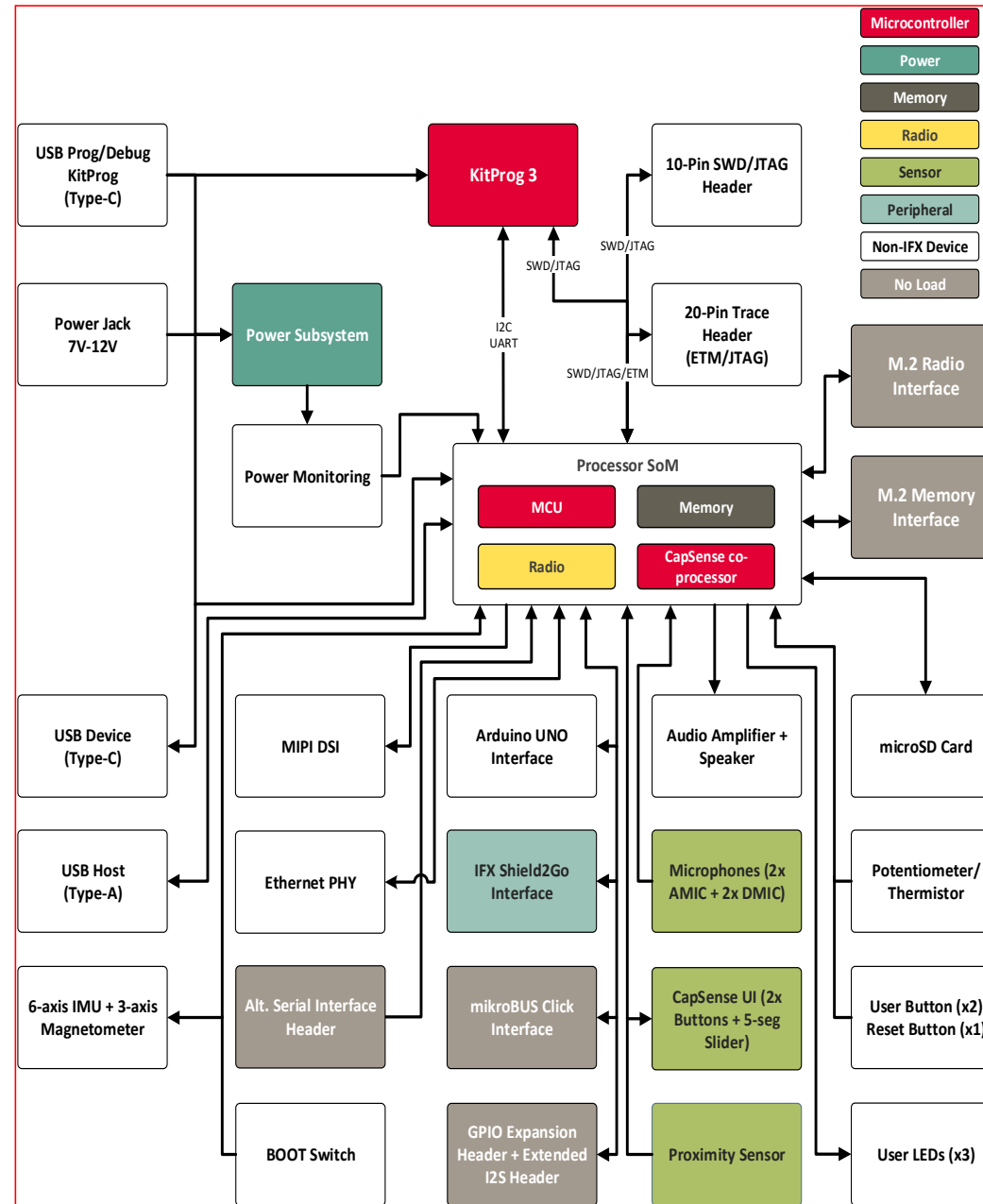
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**Page Title: Power Block Diagram**

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A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	2 of 33



## System Block Diagram



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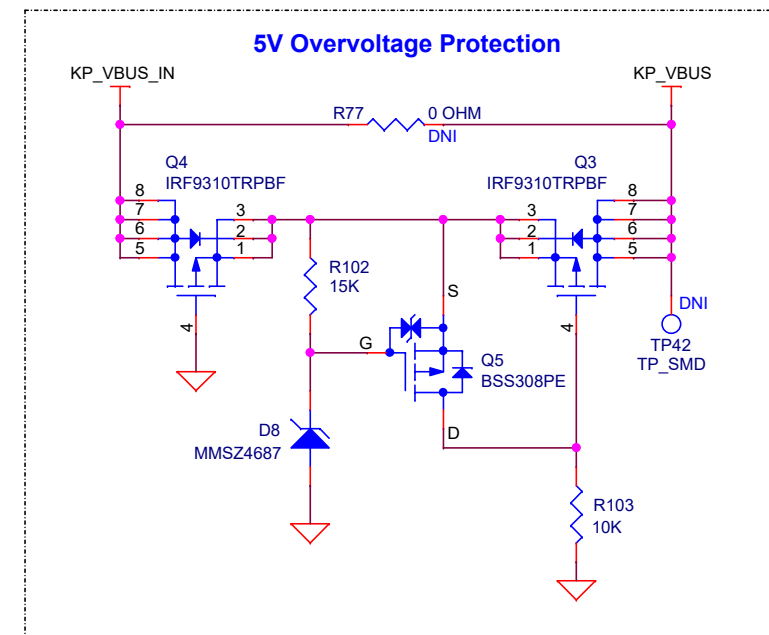
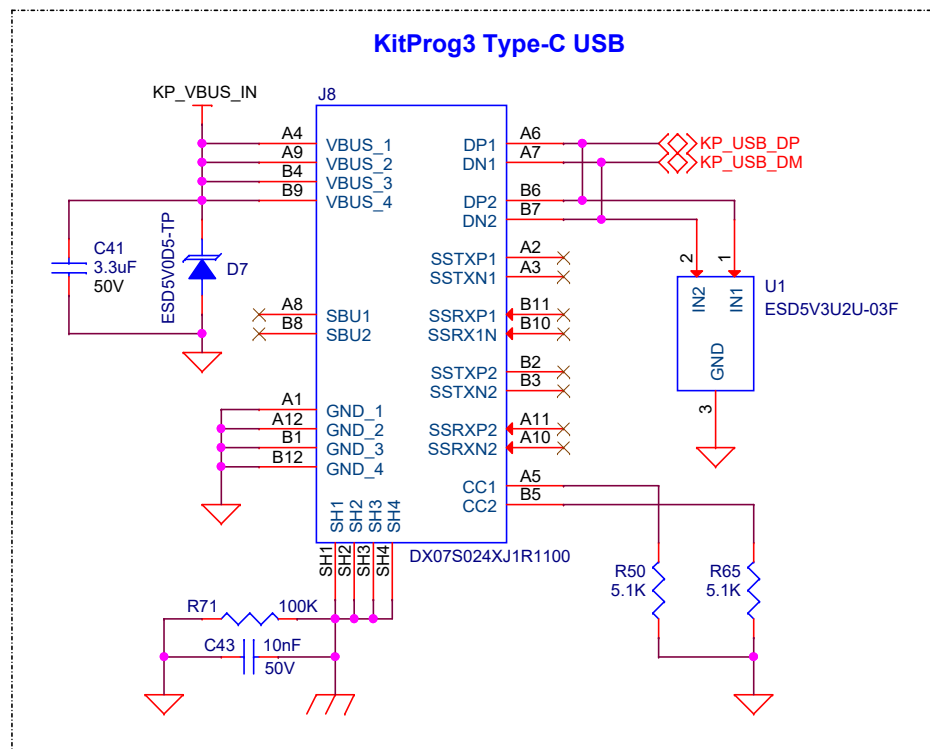
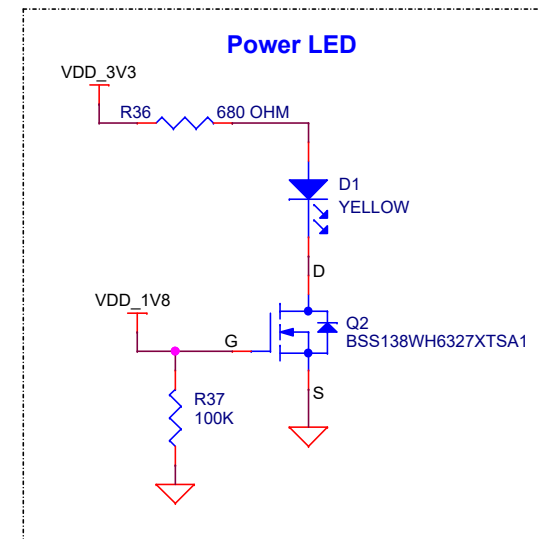
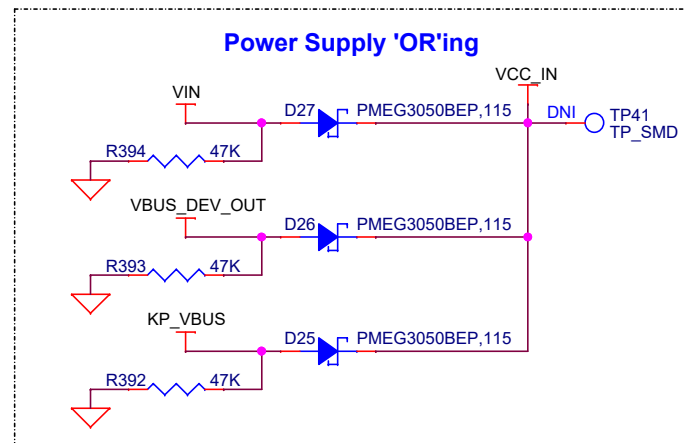
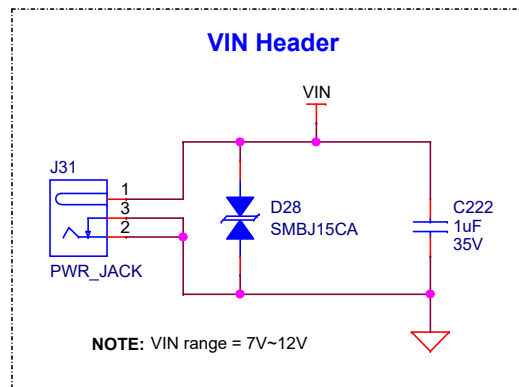


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Page Title : System Block Diagram

Size	Document Number	Drawn By	Approved By	Rev
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Date:	Friday, August 08, 2025		Sheet	3 of 33





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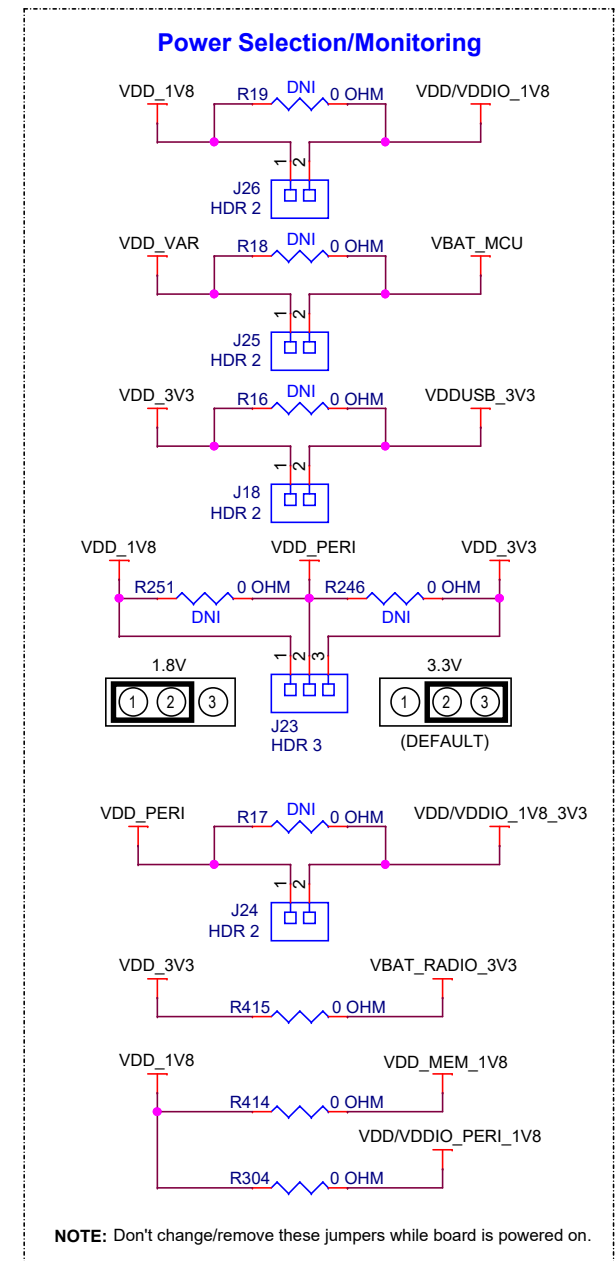
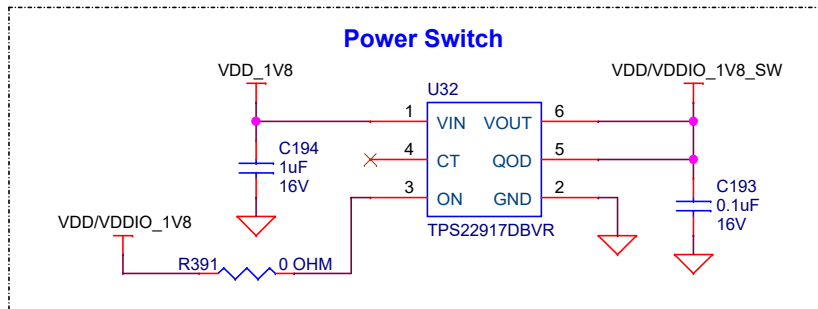
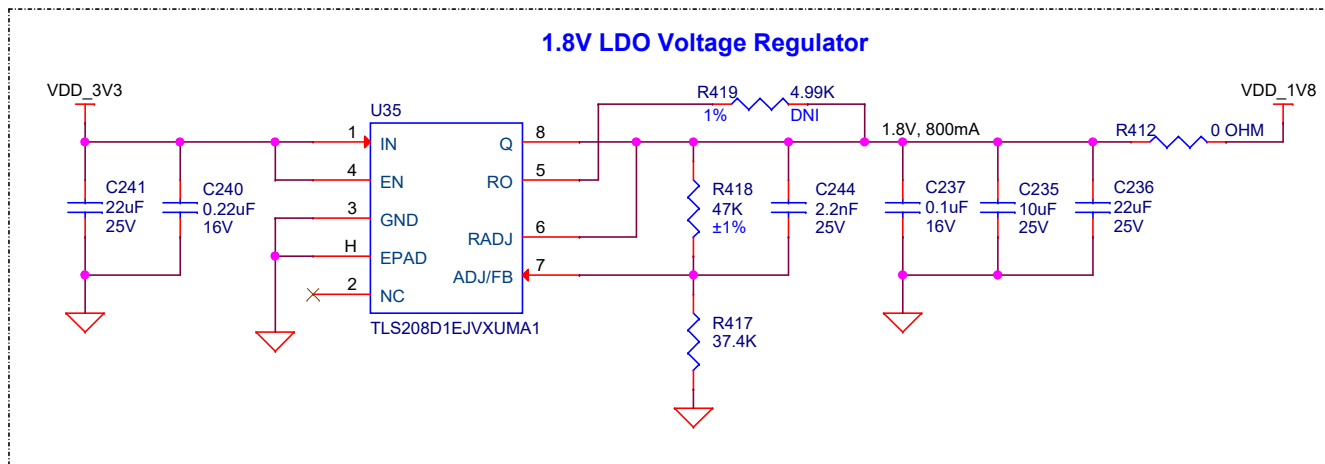


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Date:	Monday, April 28, 2025		Sheet	4 of 33



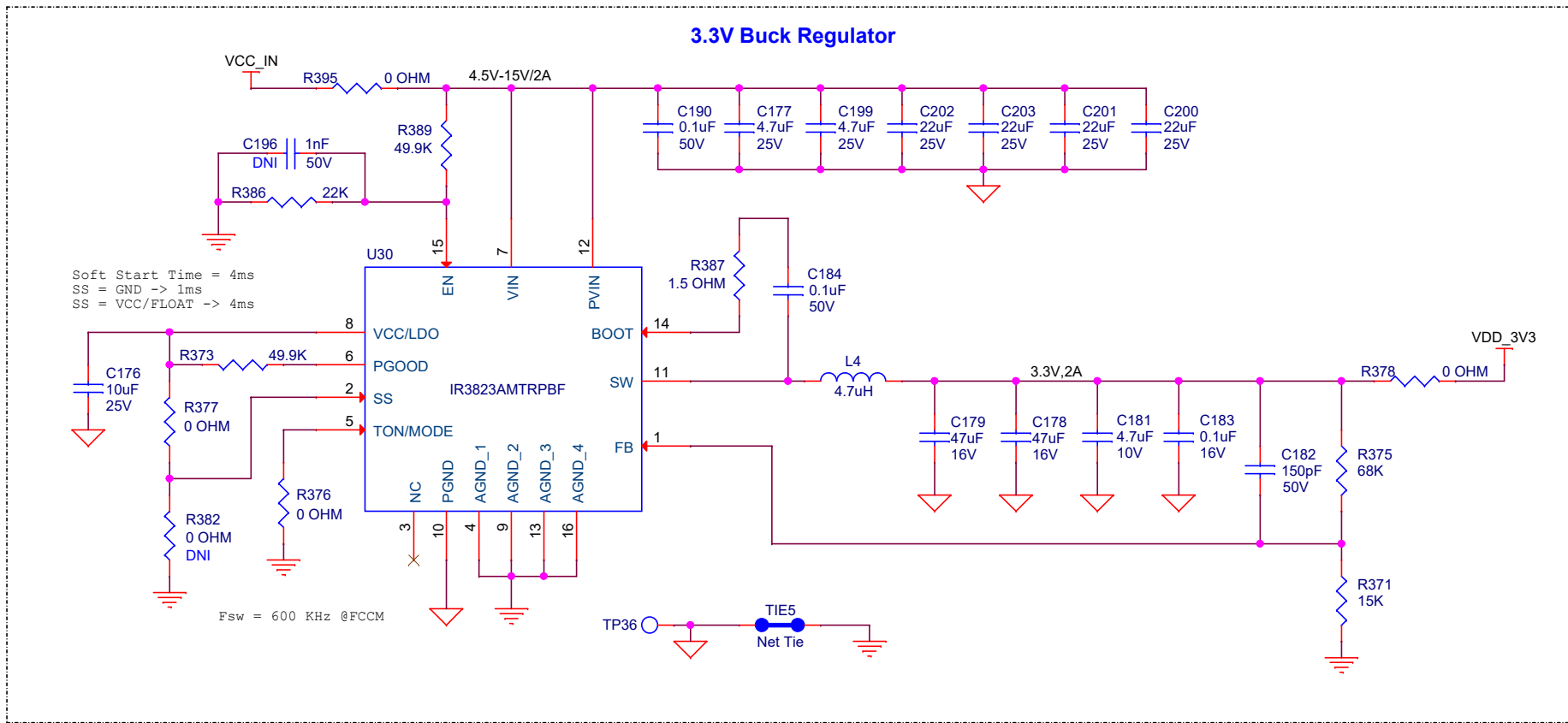


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Date:	Monday, April 28, 2025		Sheet	5 of 33





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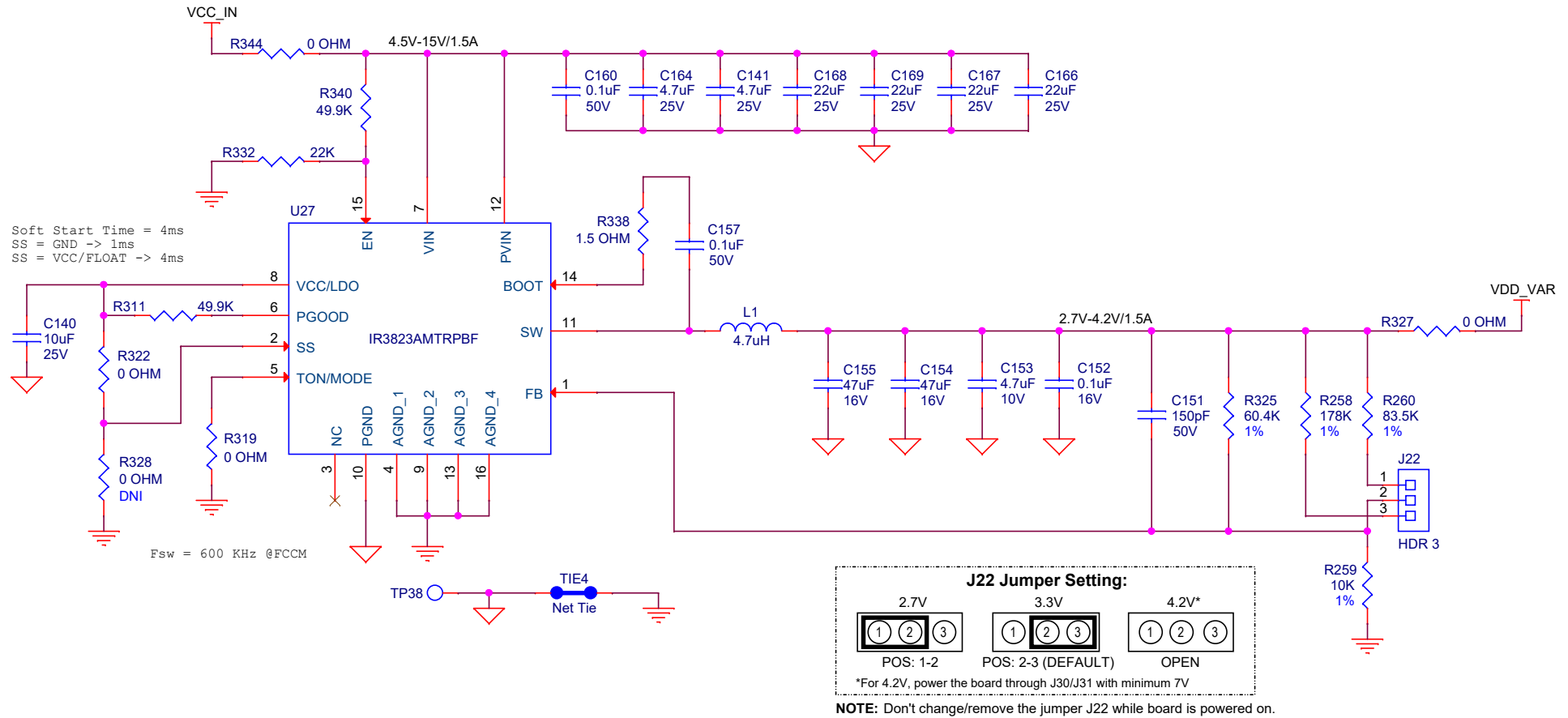
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Date: <b>Monday, April 28, 2025</b>			Sheet <b>6</b> of <b>33</b>	



## Variable (2.7V-4.2V) Buck Regulator



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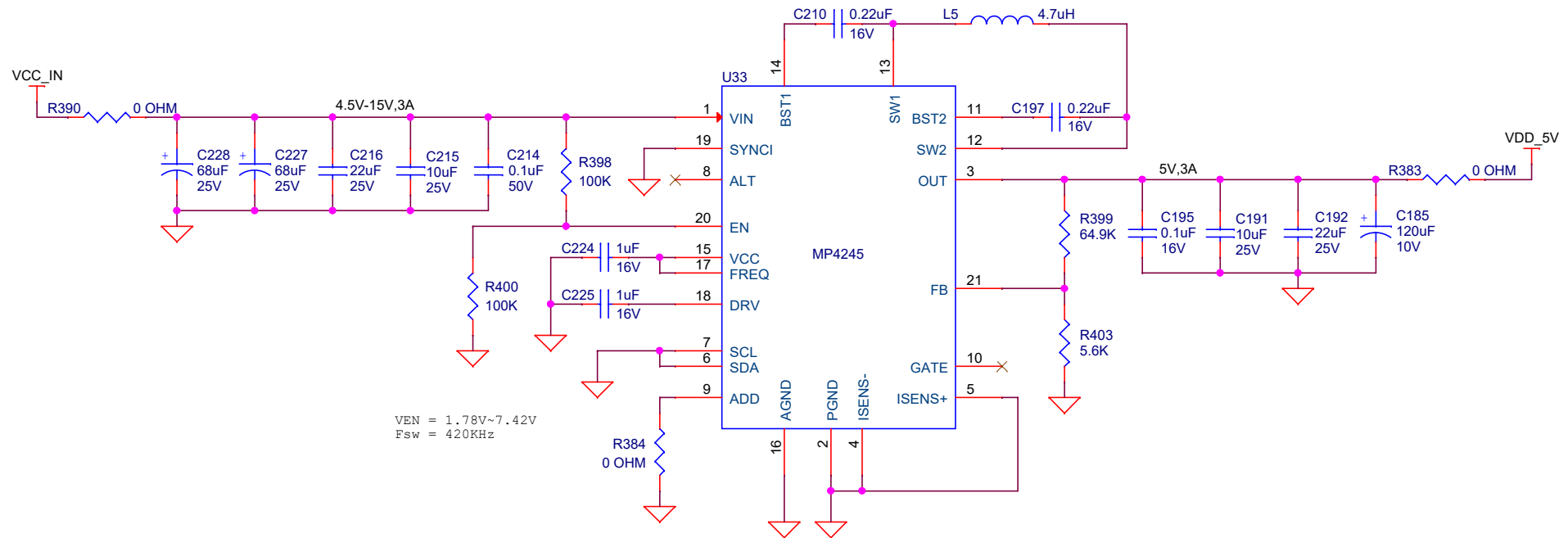
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Date:	Monday, April 28, 2025		Sheet	7 of 33



## 5V Buck-Boost Regulator



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Page Title: Power Supply 5

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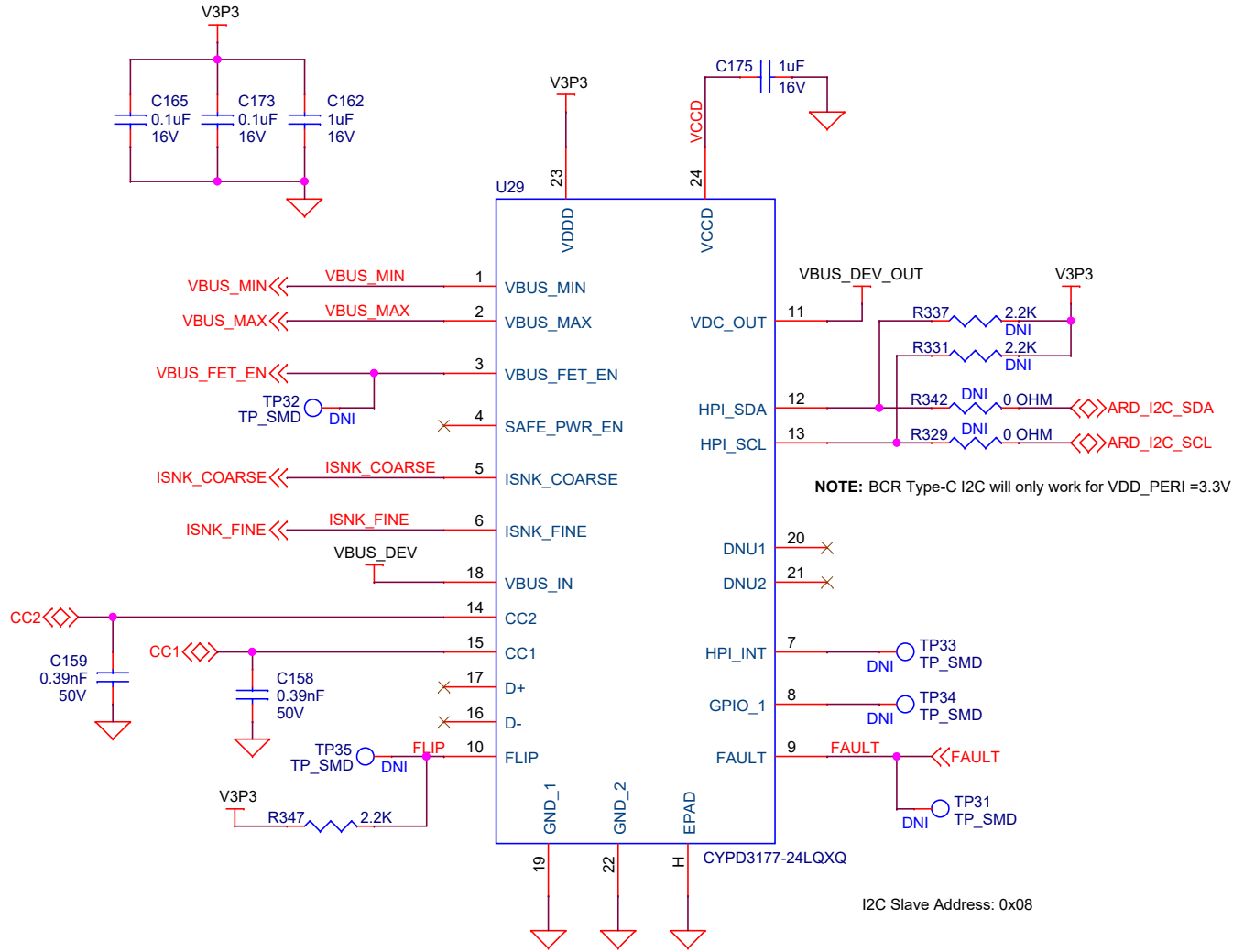
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# Device USB Type-C BCR Controller



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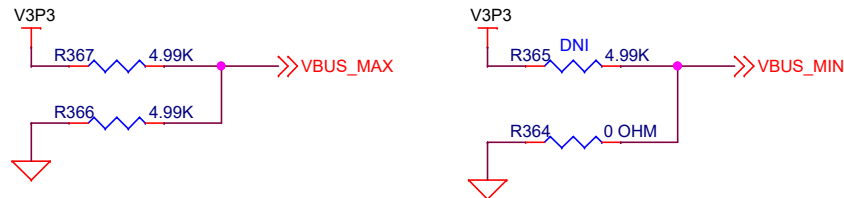
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Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	10 of 33



### VBUS Voltage Selectors: VBUS\_MAX and VBUS\_MIN

Requested voltage = (VBUS\_MIN -> VBUS\_MAX)  
= 5V or 15V



VBUS\_MAX is decided by the Resistor options.  
Default VBUS\_MAX is set to 15V

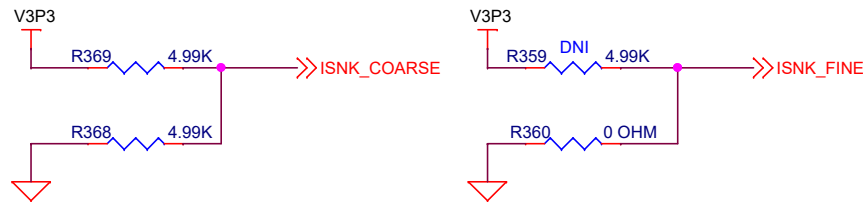
VBUS\_MIN is set to 5V

**VBUS\_MIN and VBUS\_MAX Resistor Options Table**

V3P3 RATIO	0/6	1/6	2/6	3/6
VBUS_MAX, VBUS_MIN	5V	9V	12V	15V
PULLUP* (R365, R367)	None	4.99K	4.99K	4.99K
PULLDOWN* (R364, R366)	0	1K	2.4K	4.99K

### VBUS CURRENT SELECTORS: ISNK\_COARSE and ISNK\_FINE

Requested (RDO) current = ISNK\_COARSE + ISNK\_FINE = 3000mA



ISNK\_COARSE is set to 3A

ISNK\_FINE is set to 0mA

**ISNK\_COARSE and ISNK\_FINE Resistor Options Table**

V3P3 RATIO	0/6	1/6	2/6	3/6	4/6	>=5/6
ISNK_COARSE	0A	1A	2A	3A	4A	5A
ISNK_FINE	0mA	250mA	500mA	750mA	900mA	
PULLUP* (R359, R369)	None	4.99K	4.99K	4.99K	4.99K	0
PULLDOWN* (R360, R368)	0	1K	2.4K	4.99K	10K	None

\*When pullup-pulldown combination is 0-none or none-0, use any resistor instead of 0-ohm

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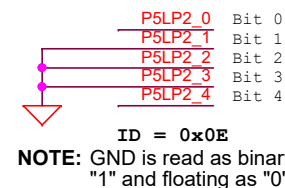
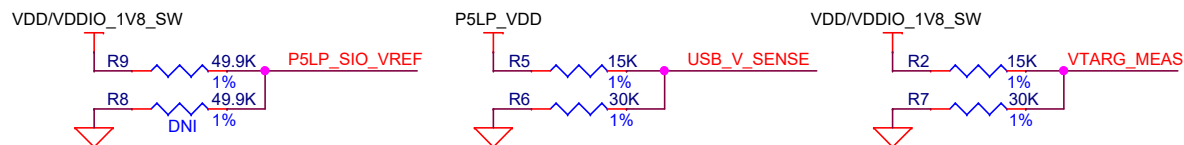
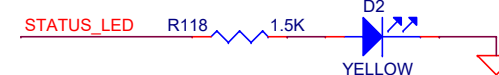
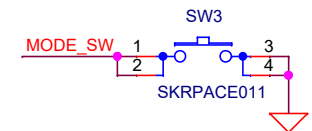
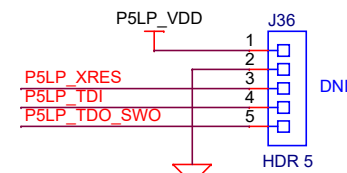
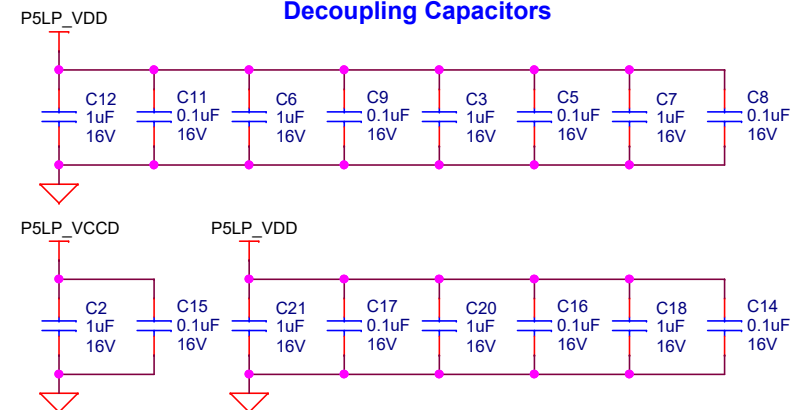
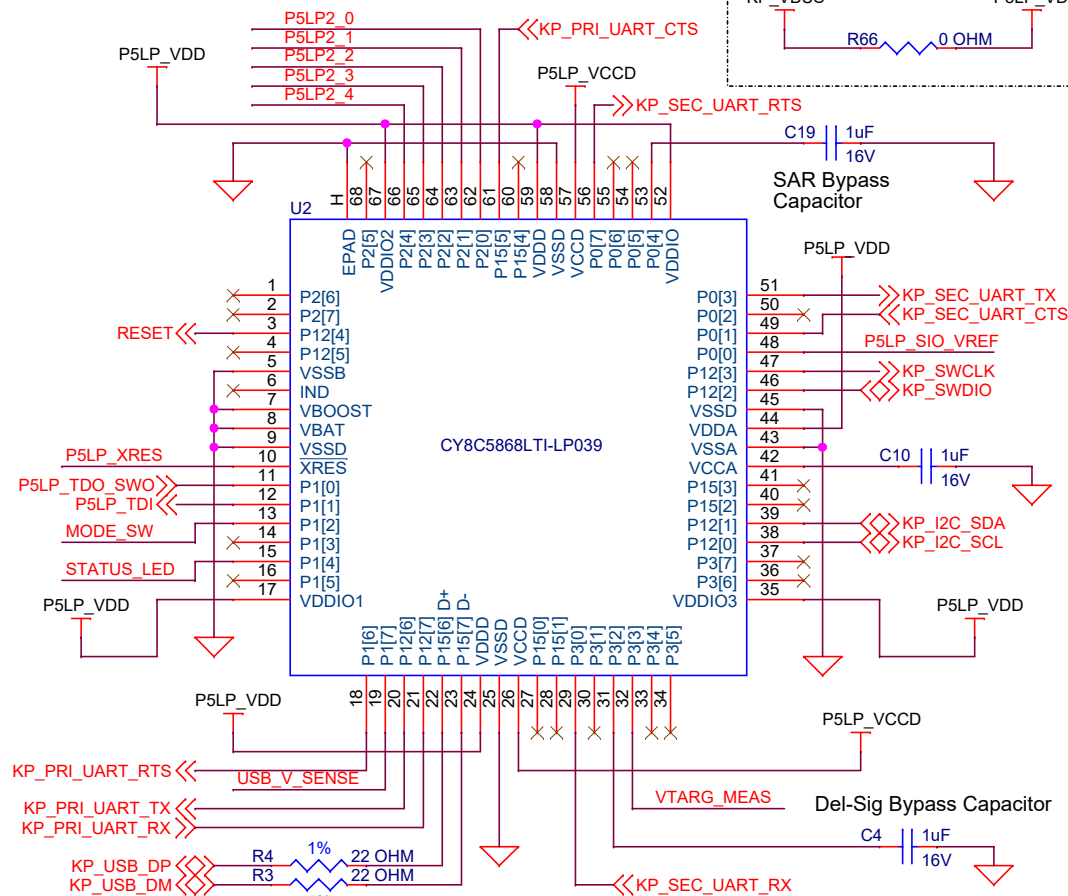


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**Page Title: Type-C Device Pwr. Config.**

Size	Document Number	Drawn By	Approved By	Rev
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Date:	Monday, April 28, 2025		Sheet	11 of 33





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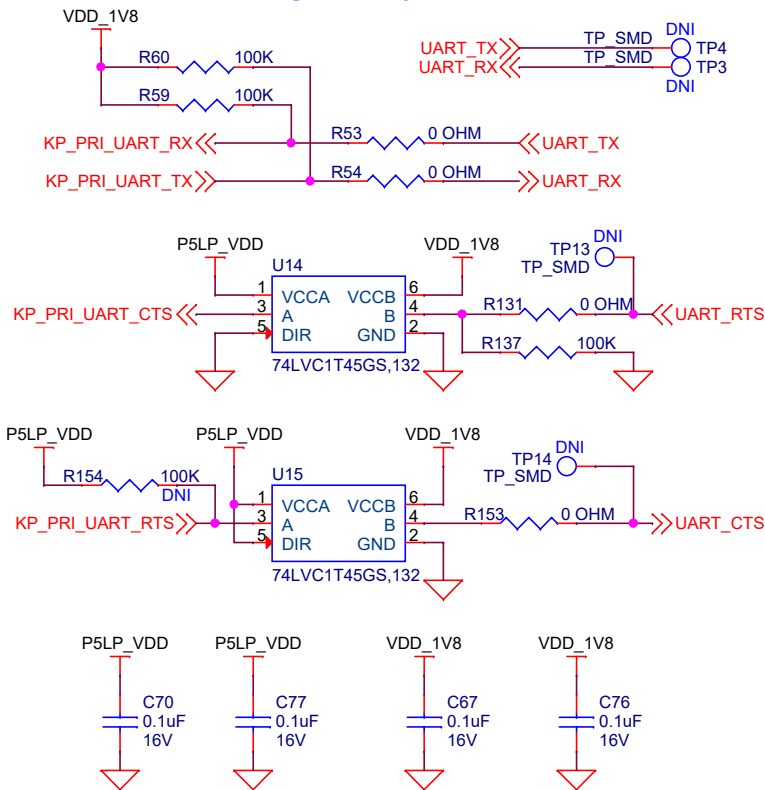
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Page Title: P5LP Based KitProg3

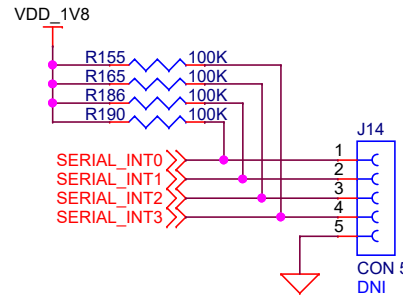
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Date: Monday, April 28, 2025			Sheet 12 of 33	



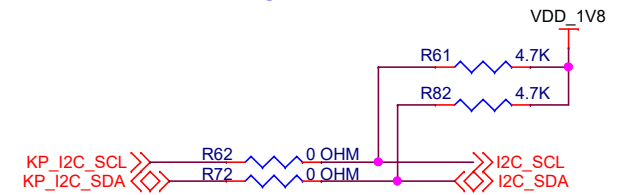
## KitProg3 Primary UART Interface



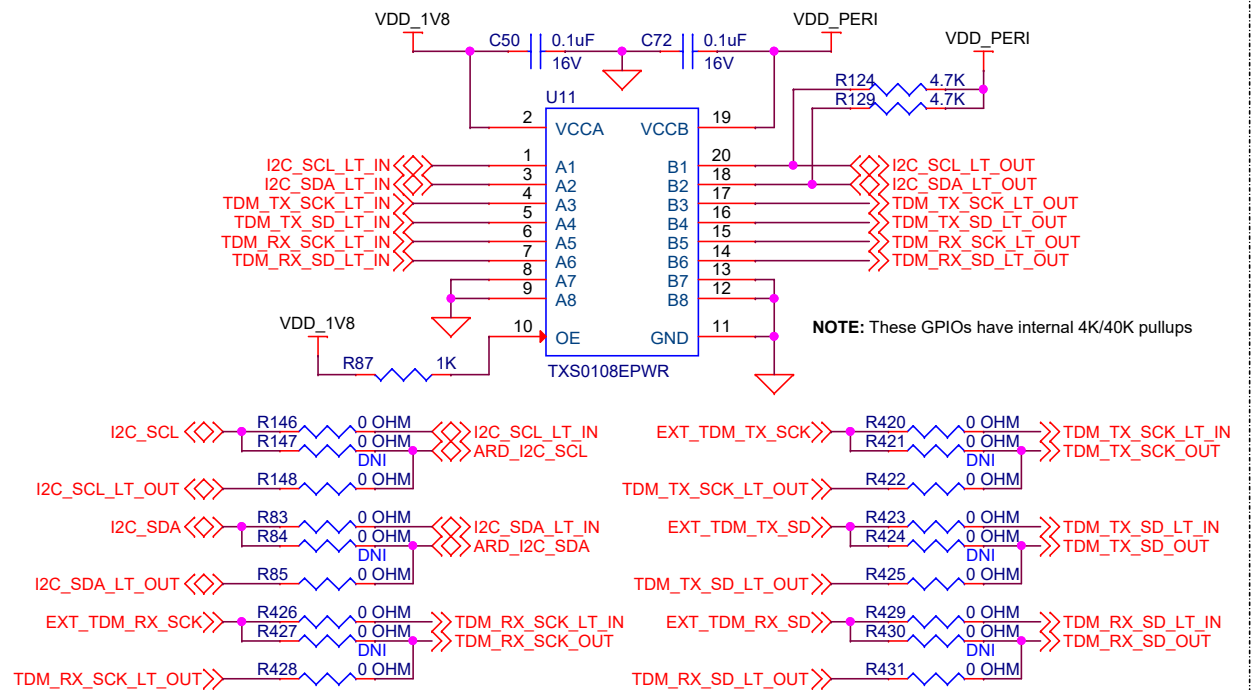
## Alternative Serial Interface



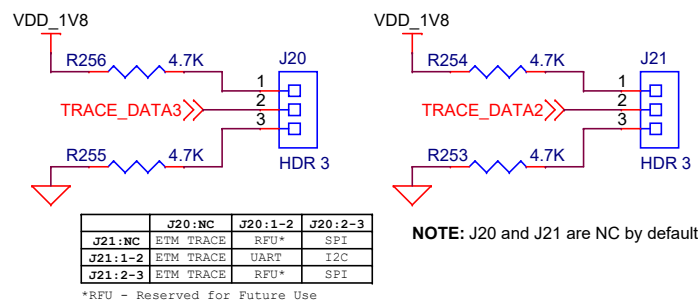
## KitProg3 I2C Interface



## I2C & TDM Level Translator



## Alternative Serial Interface Configuration



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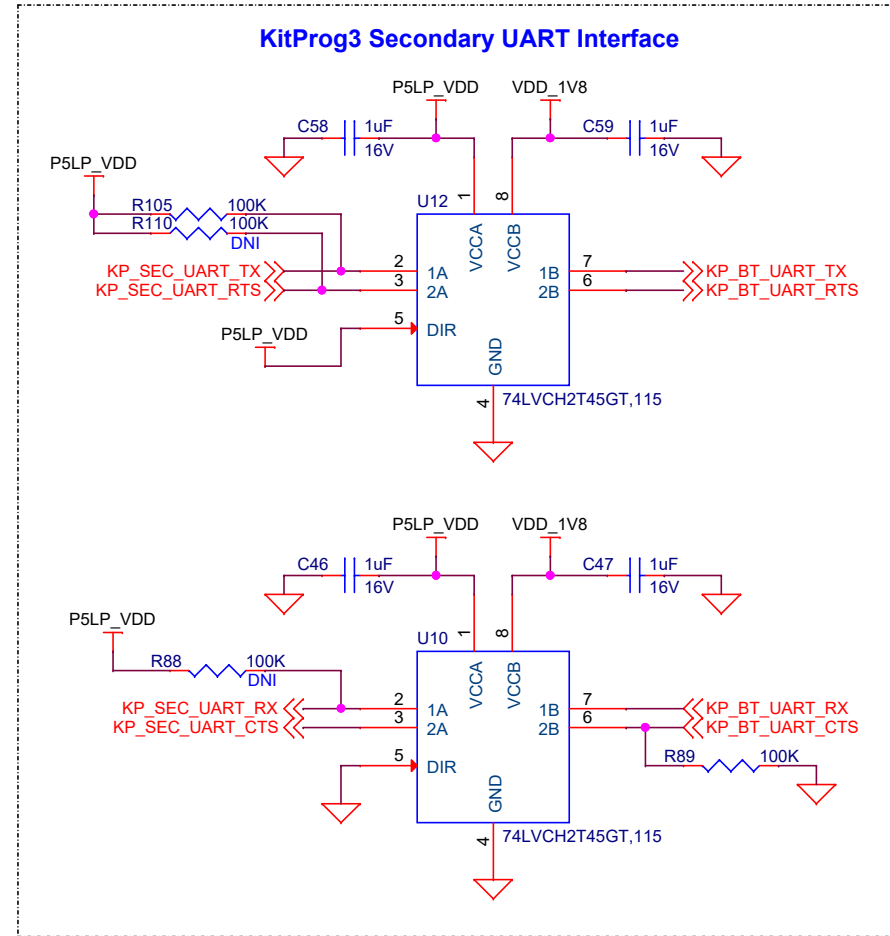
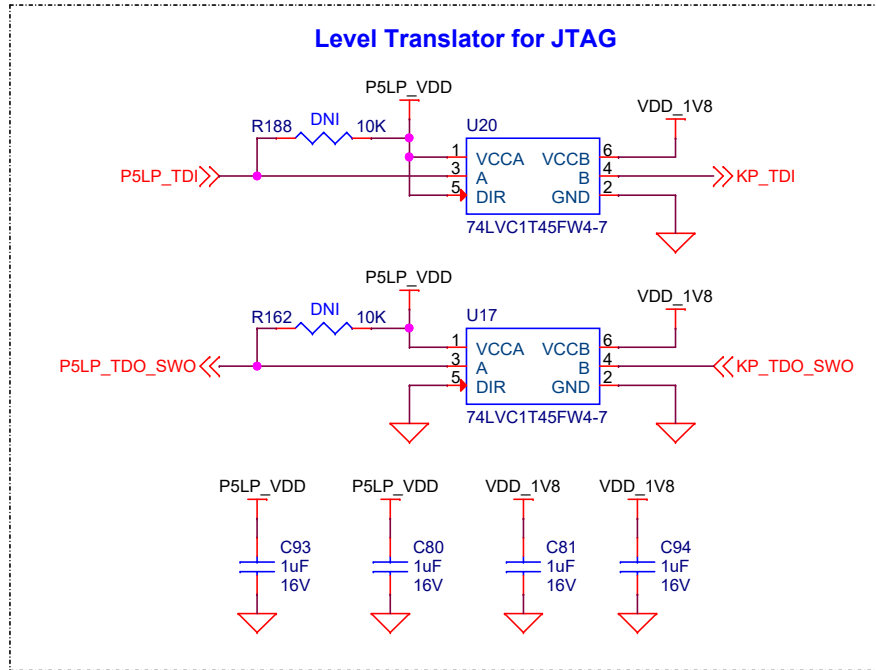


### SCH Title : PSOC™ Edge E8 Base Board

#### Page Title : Communication Interface 1

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Date:	Monday, April 28, 2025		Sheet	13 of 33





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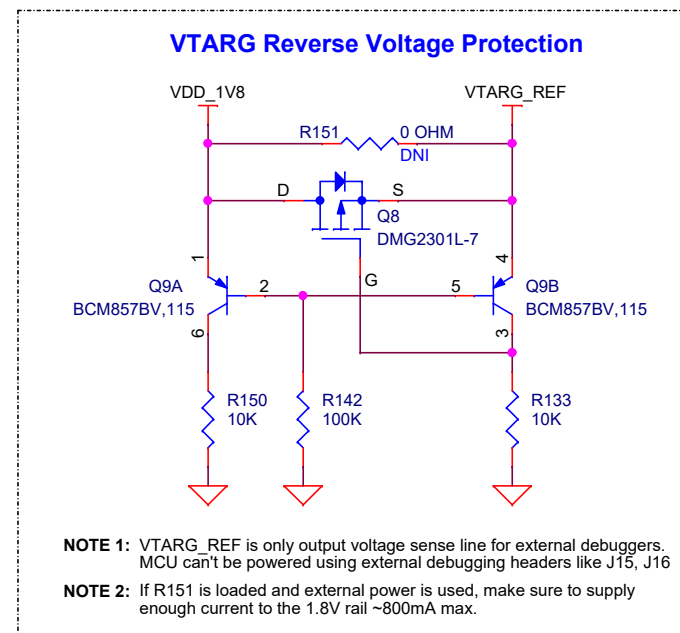
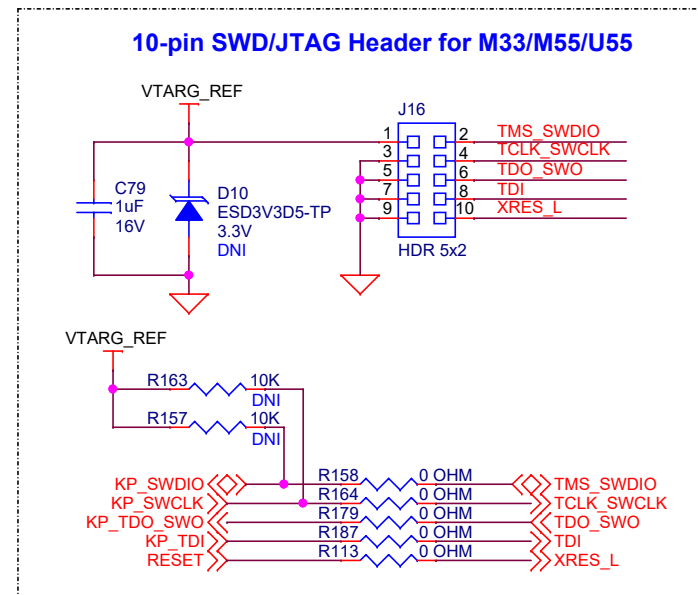
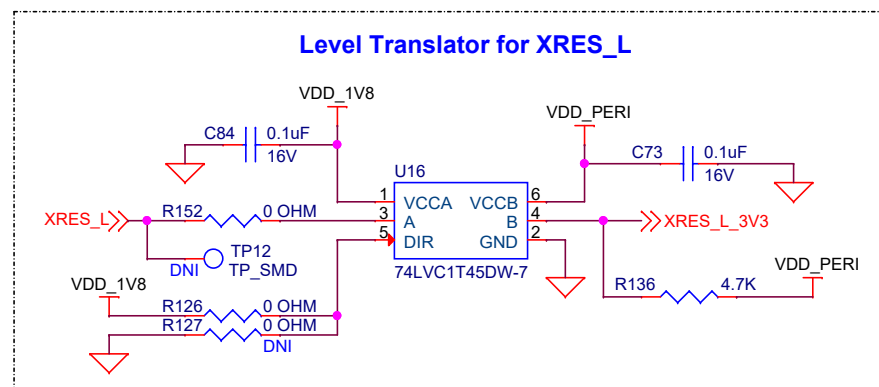
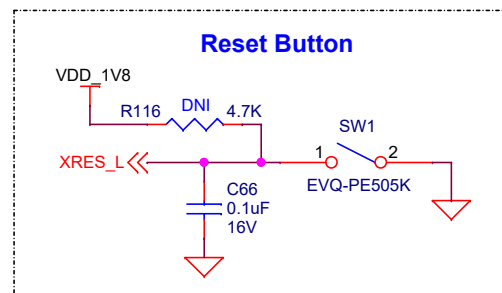
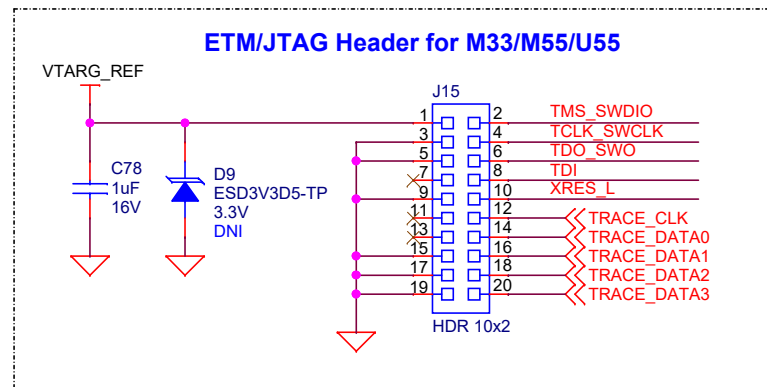
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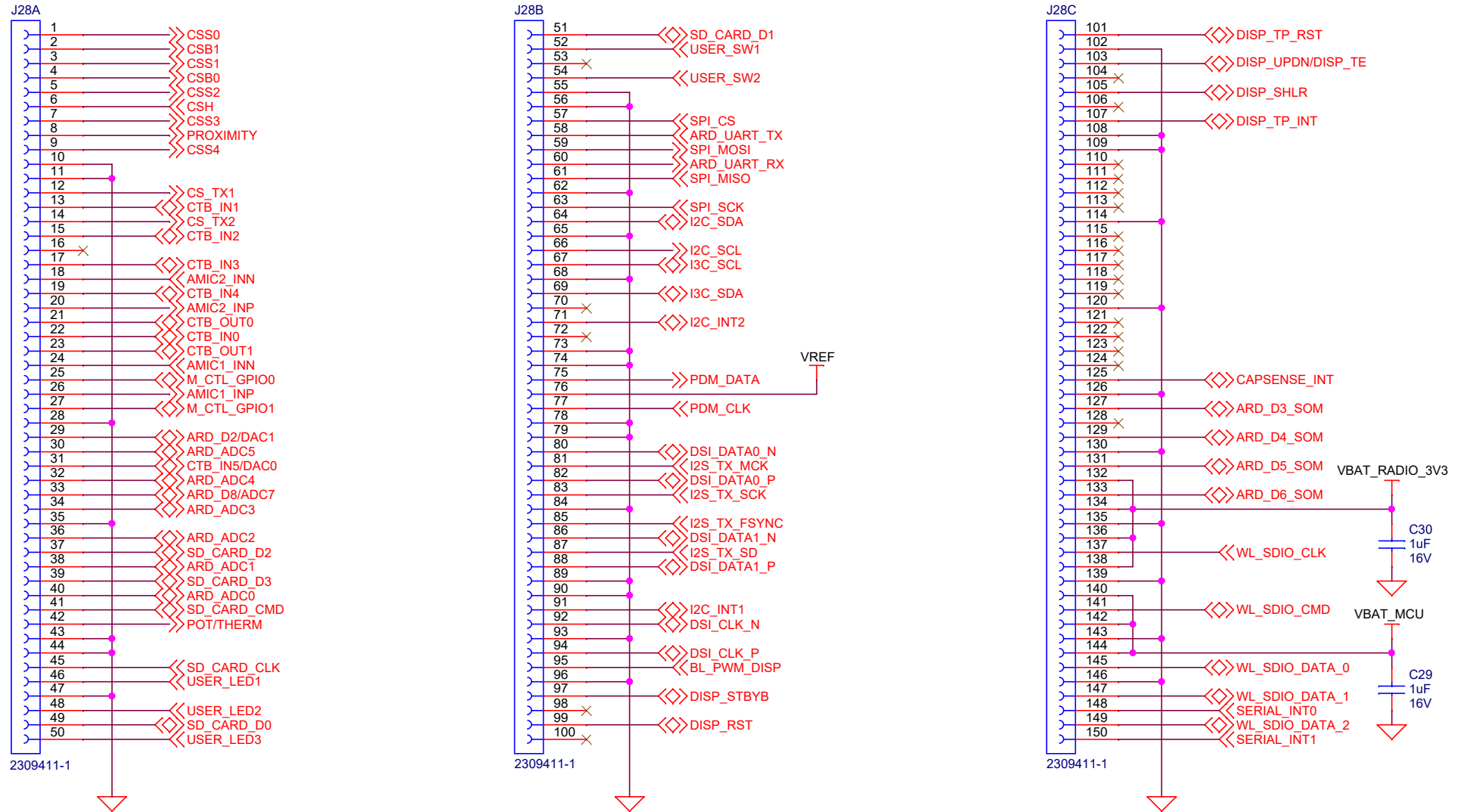
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**Page Title : Program/Debug Interface**

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Date:	Monday, April 28, 2025		Sheet	15 of 33



## SoM Interface



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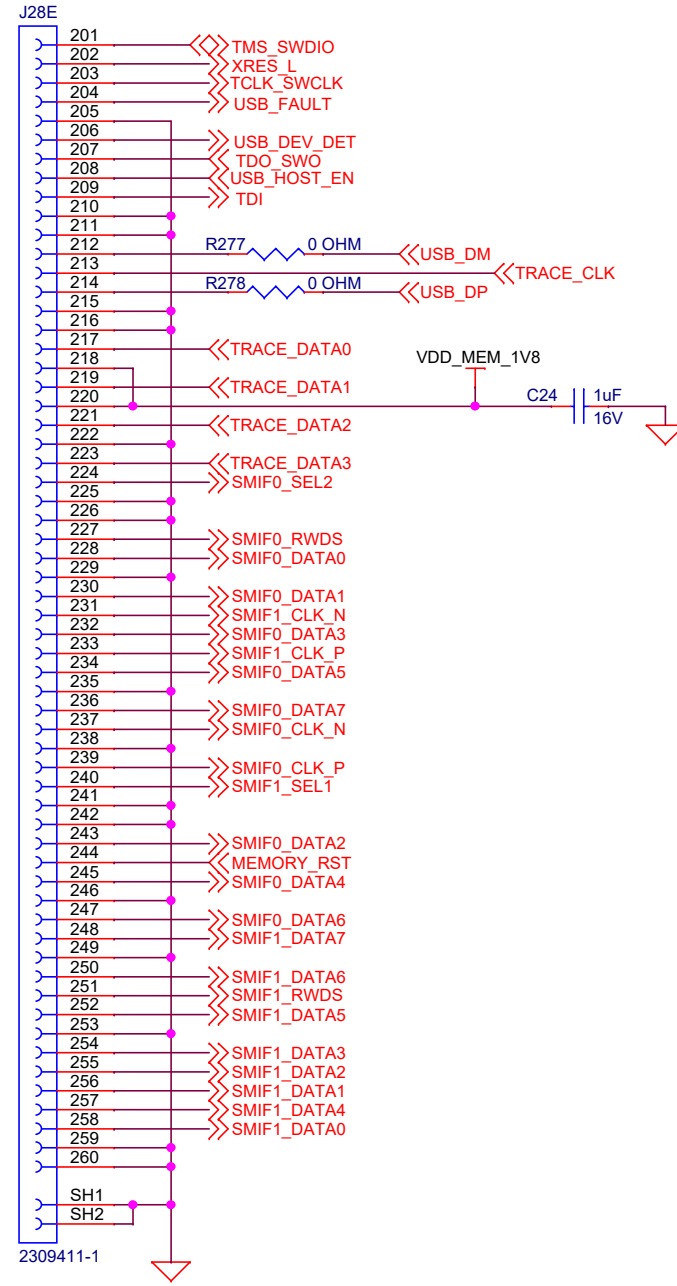
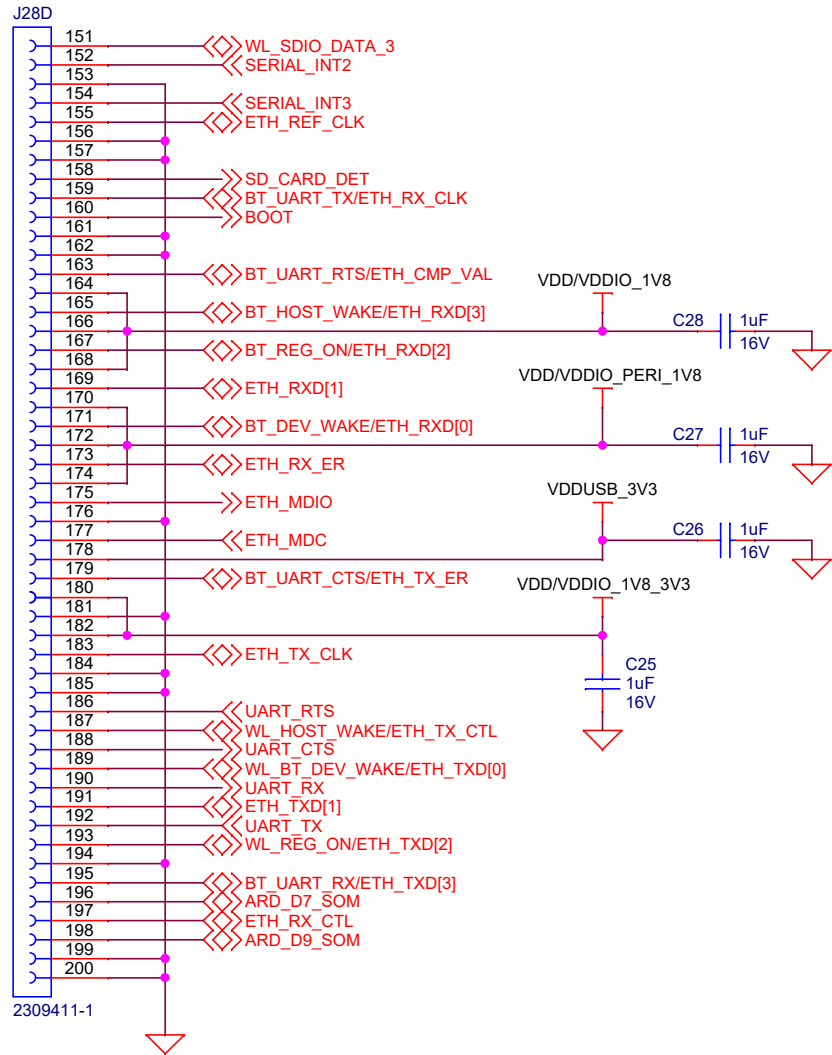
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**Page Title : SoM Interface 1**

Size	Document Number	Drawn By	Approved By	Rev
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Date:	Monday, April 28, 2025		Sheet	16 of 33



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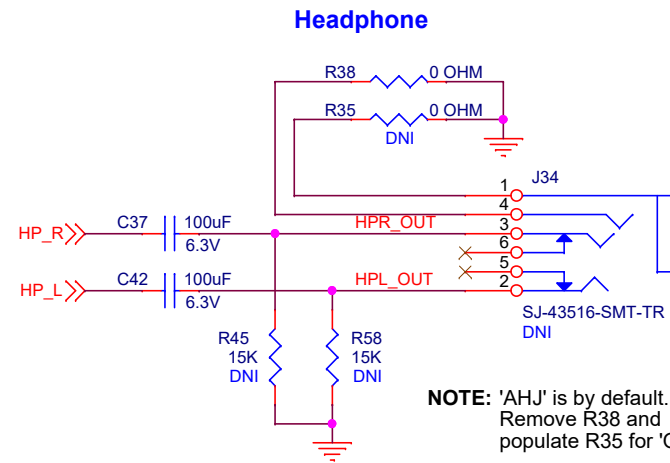
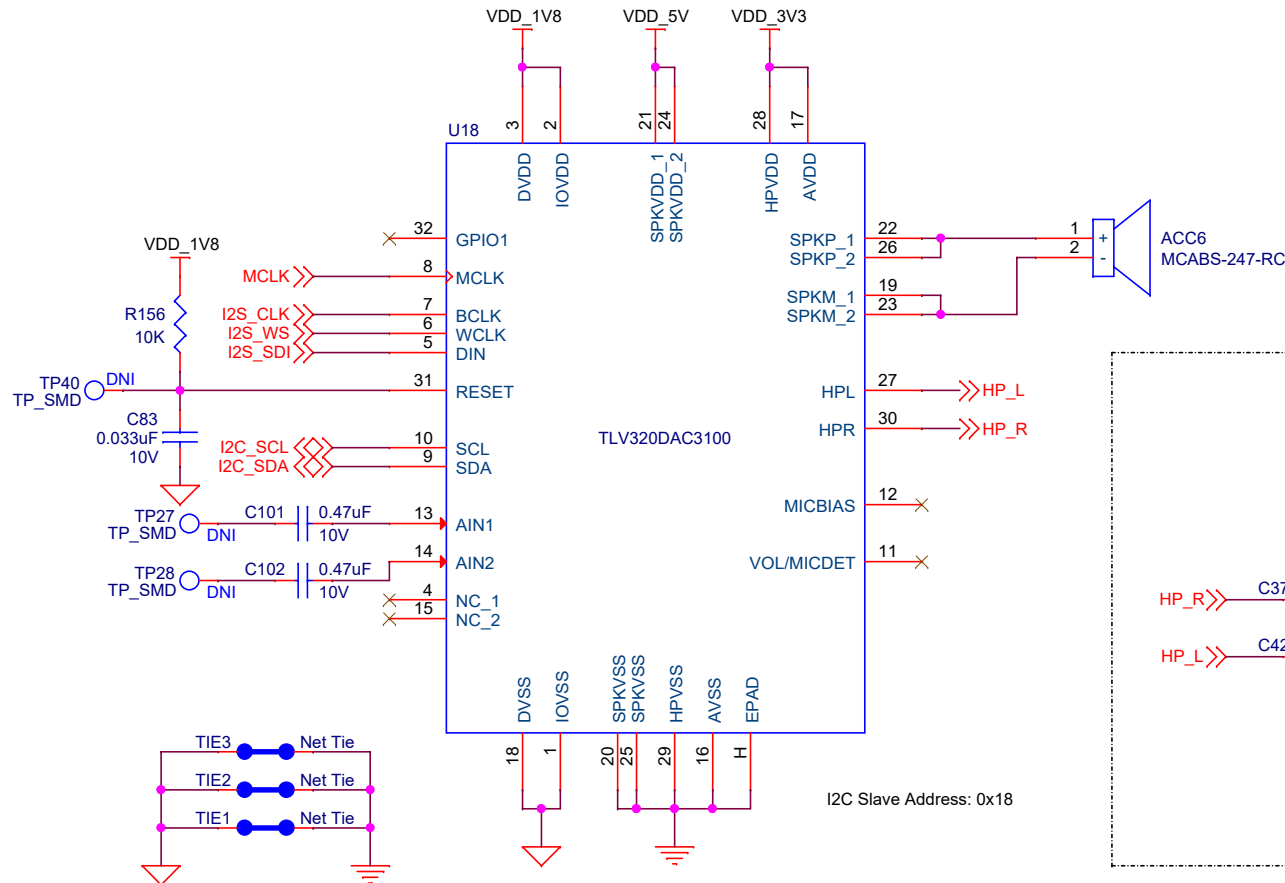
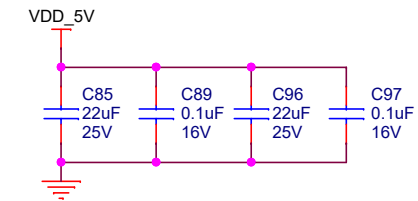
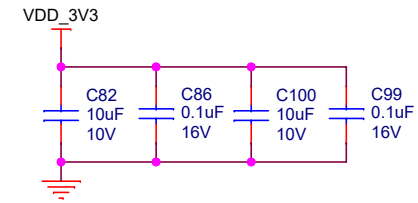
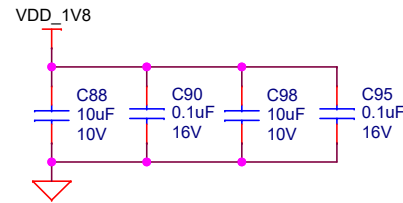
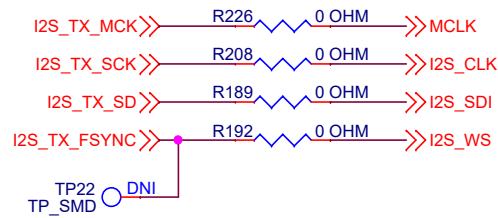
SCH Title : PSOC™ Edge E8 Base Board

Page Title : SoM Interface 2

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	17 of 33



# Audio Amplifier



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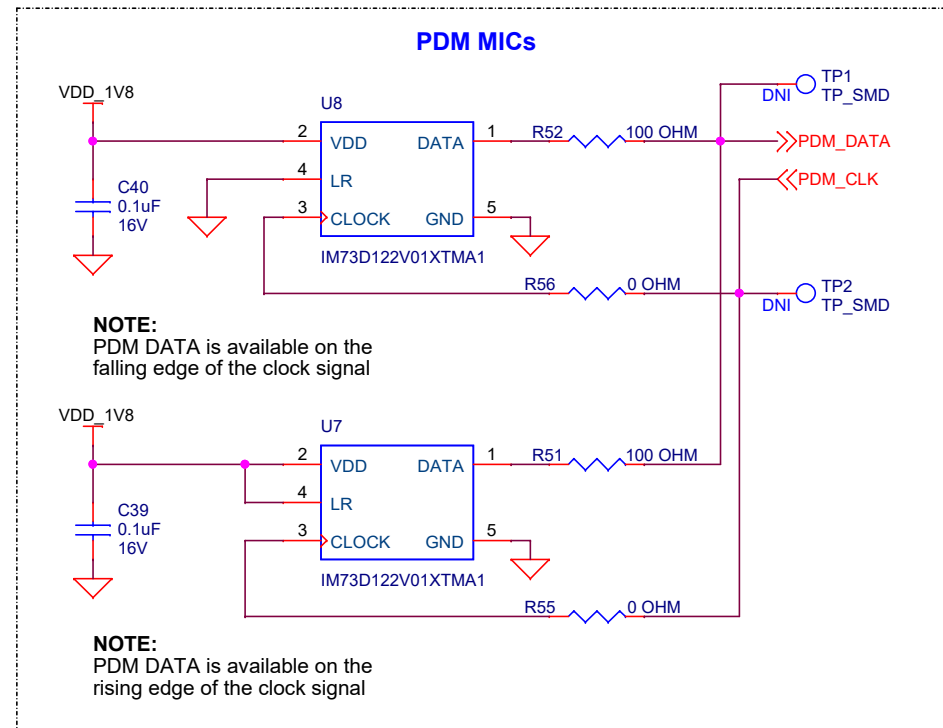
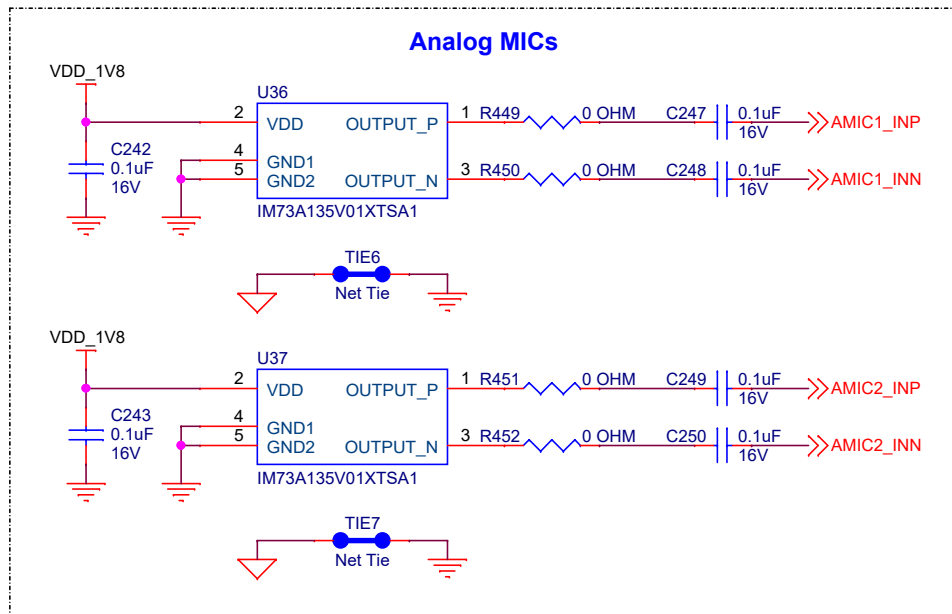


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**Page Title : Audio Class-D Amplifier**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	18 of 33





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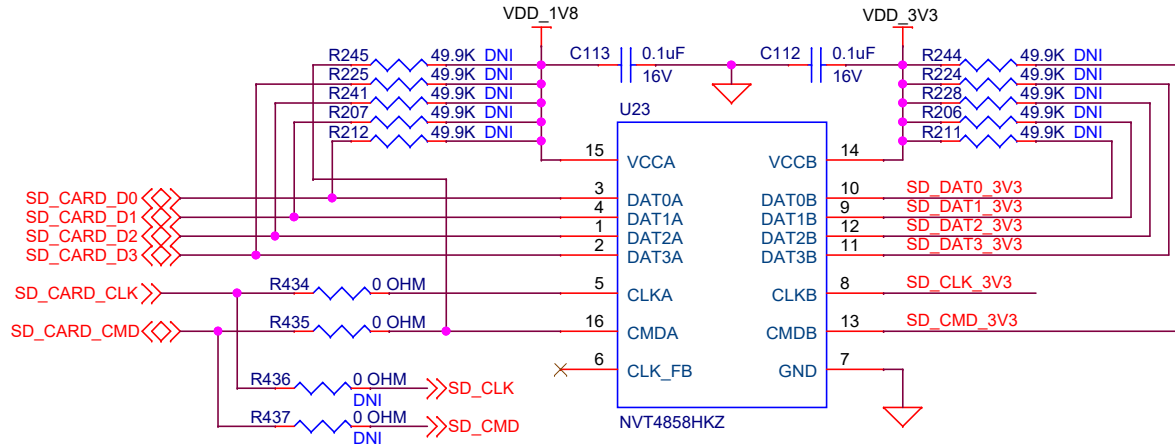
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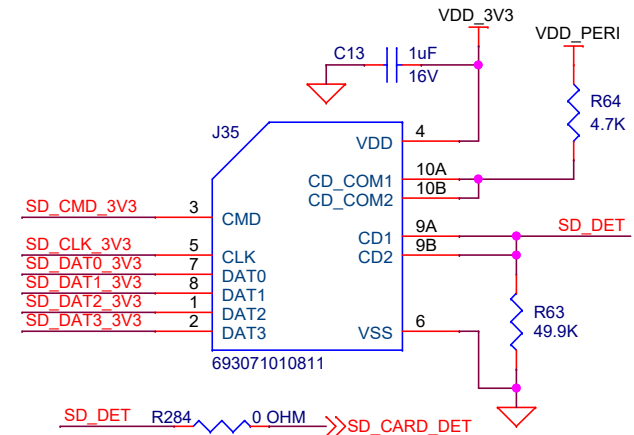
Date:	Friday, August 08, 2025	Sheet	19 of 33
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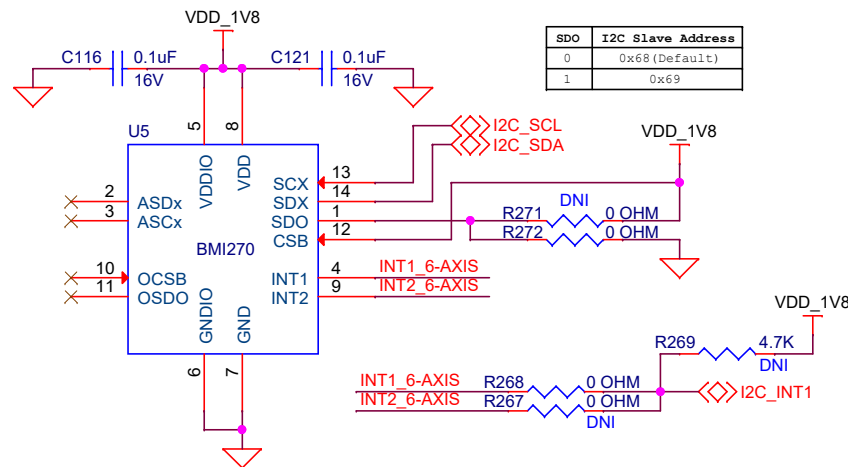
## Level Translator for MicroSD Card



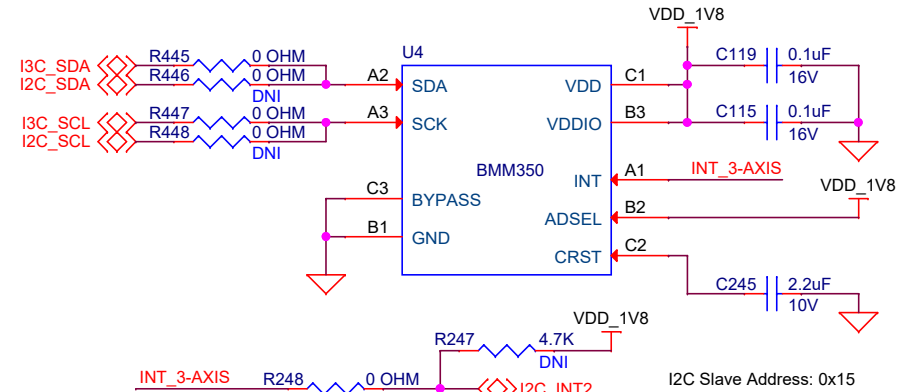
## MicroSD Card Interface



## 6-axis IMU (Accelerometer + Gyroscope)



## 3-axis Magnetometer



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### SCH Title : PSOC™ Edge E8 Base Board

### Page Title : MicroSD Card & IMU

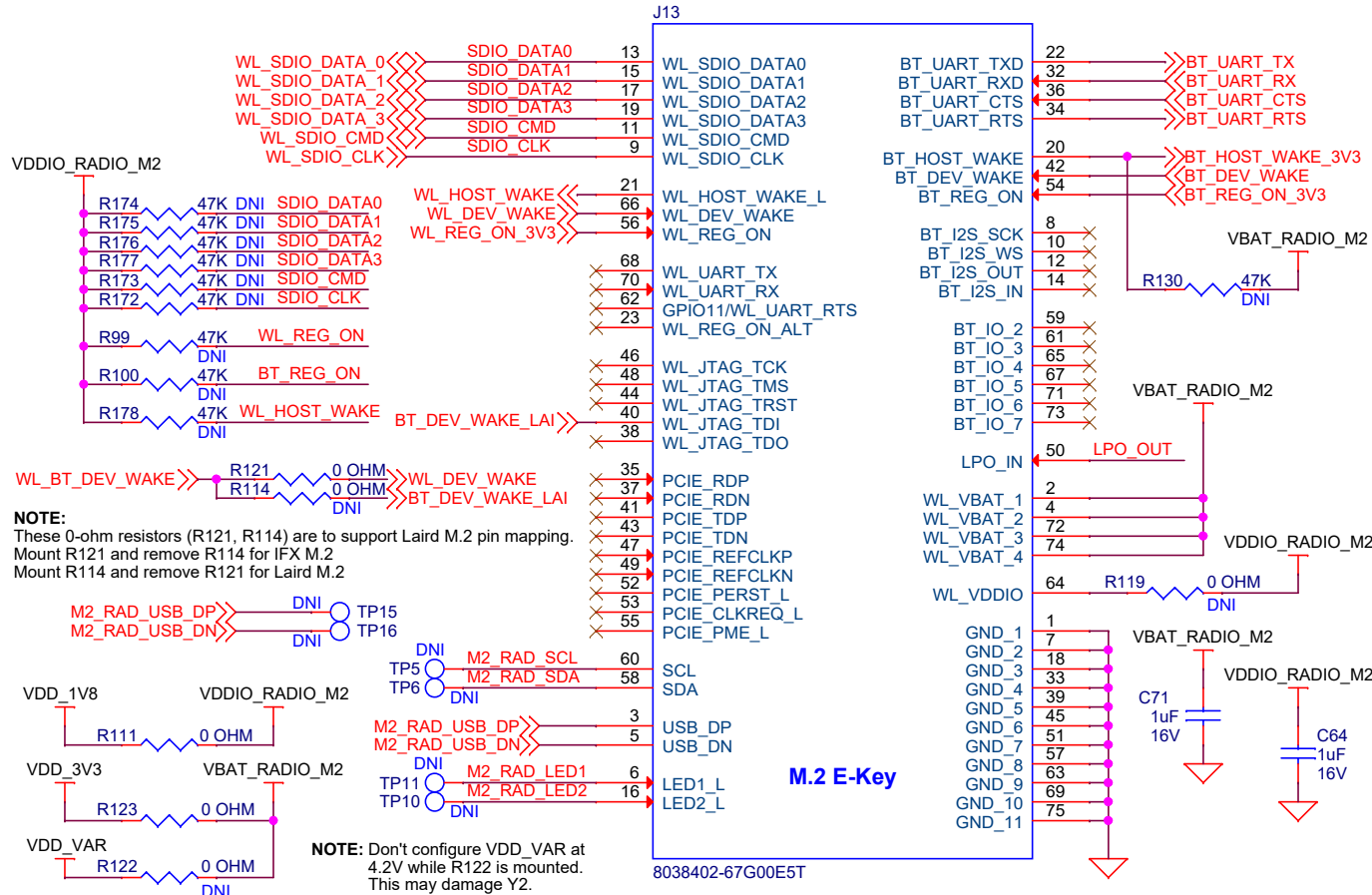
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	20 of 33



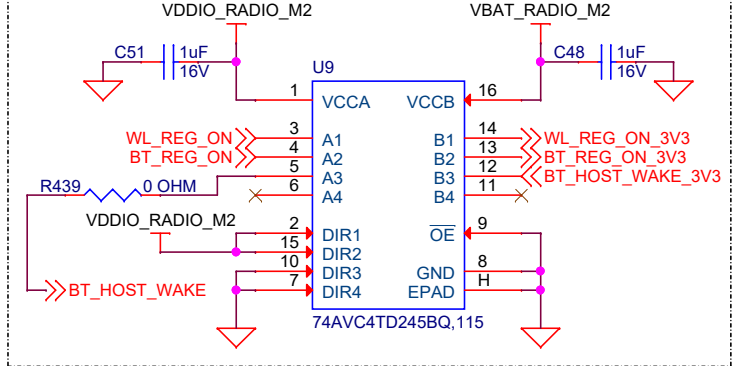




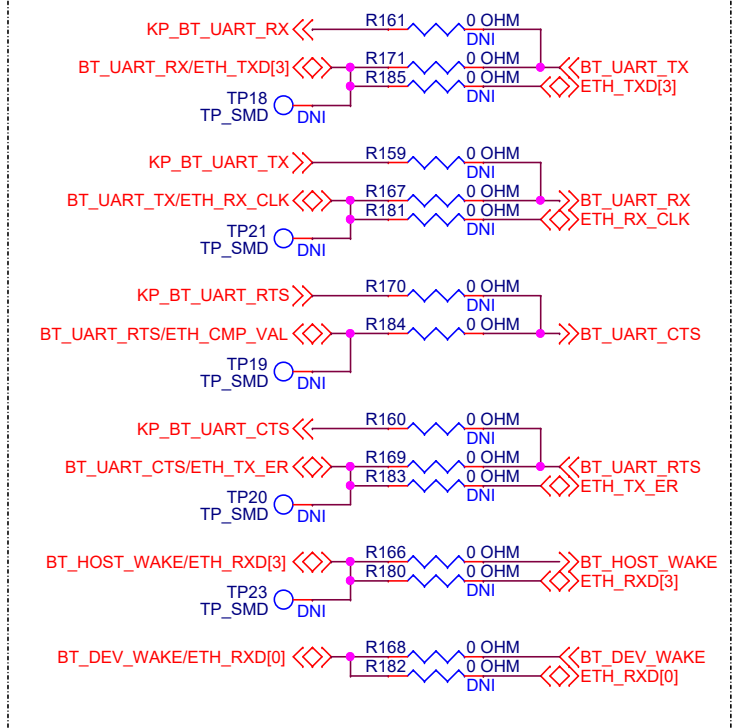
## M.2 Radio Interface Connector



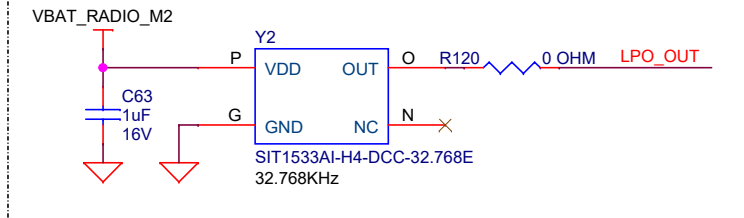
## Level Translator



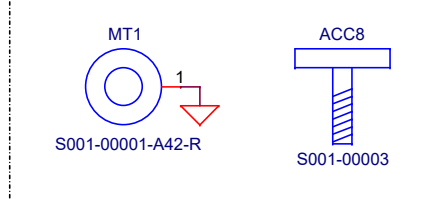
## Pin Multiplexing



## Onboard LPO



## M.2 Stand-off and Screw



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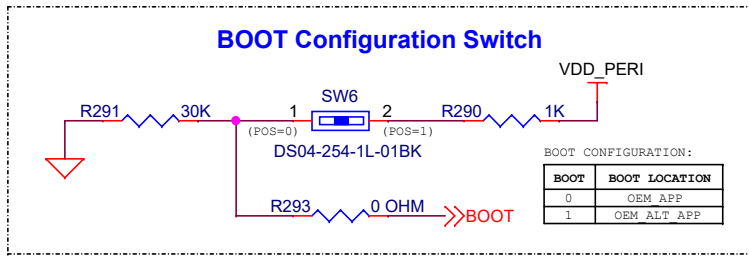
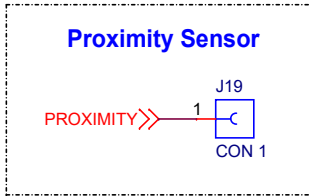
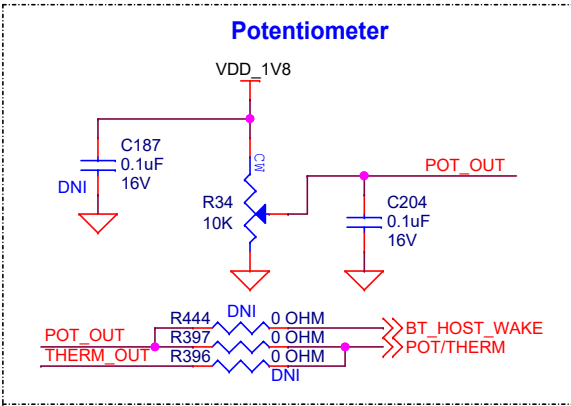
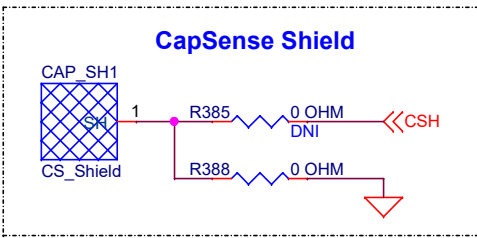
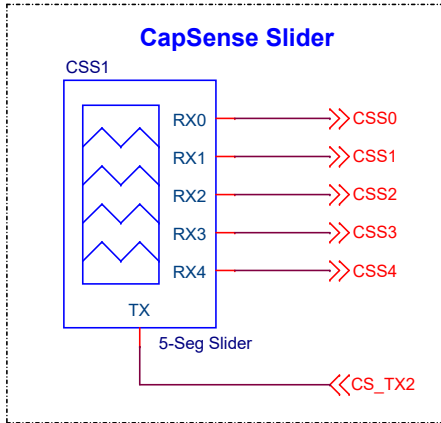
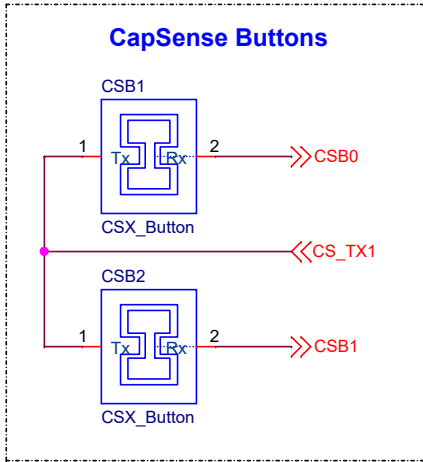
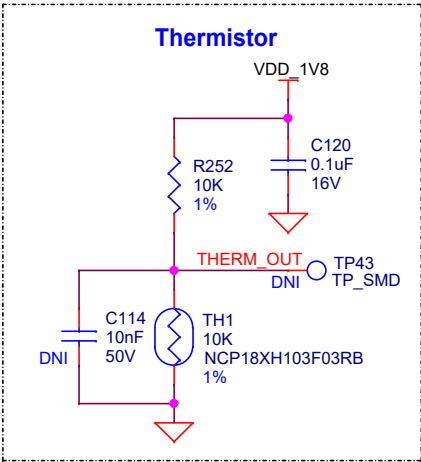
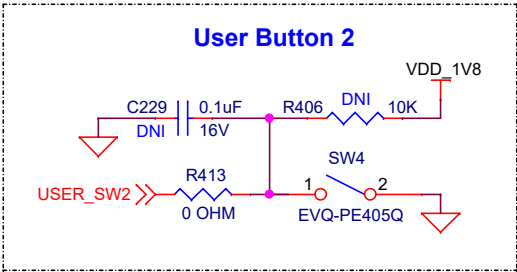
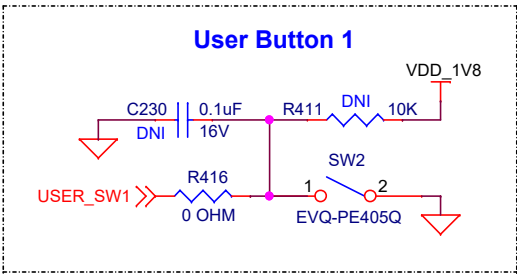
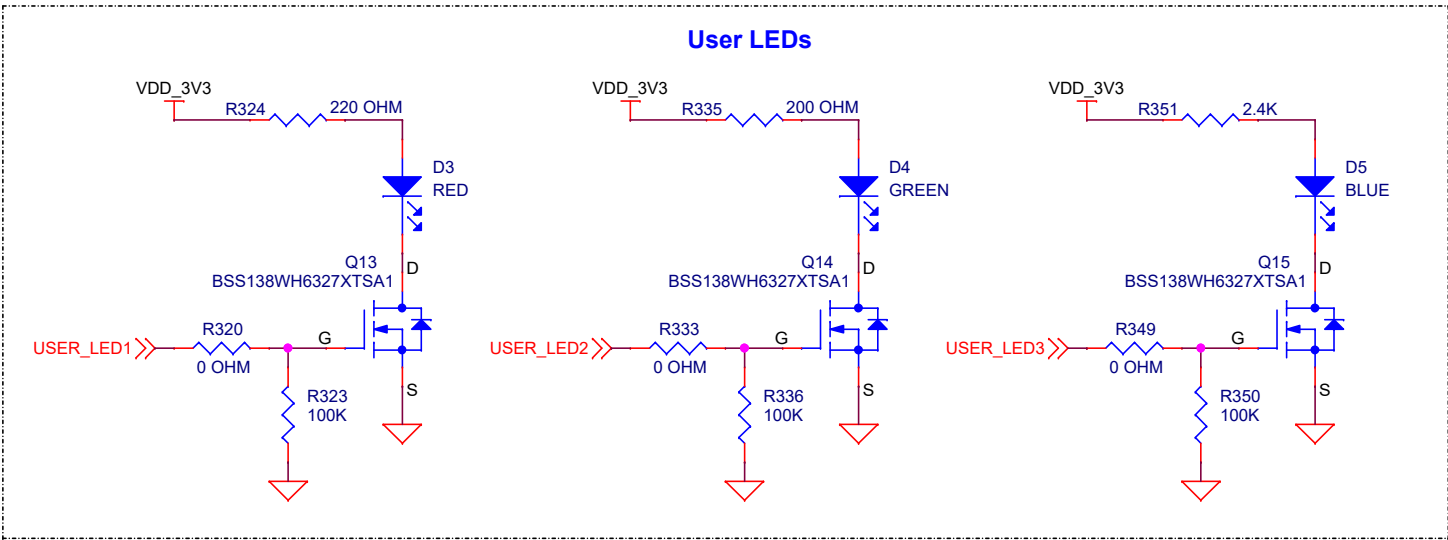


### SCH Title : PSOC™ Edge E8 Base Board

#### Page Title : M.2 Radio SOM Interface

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	22 of 33





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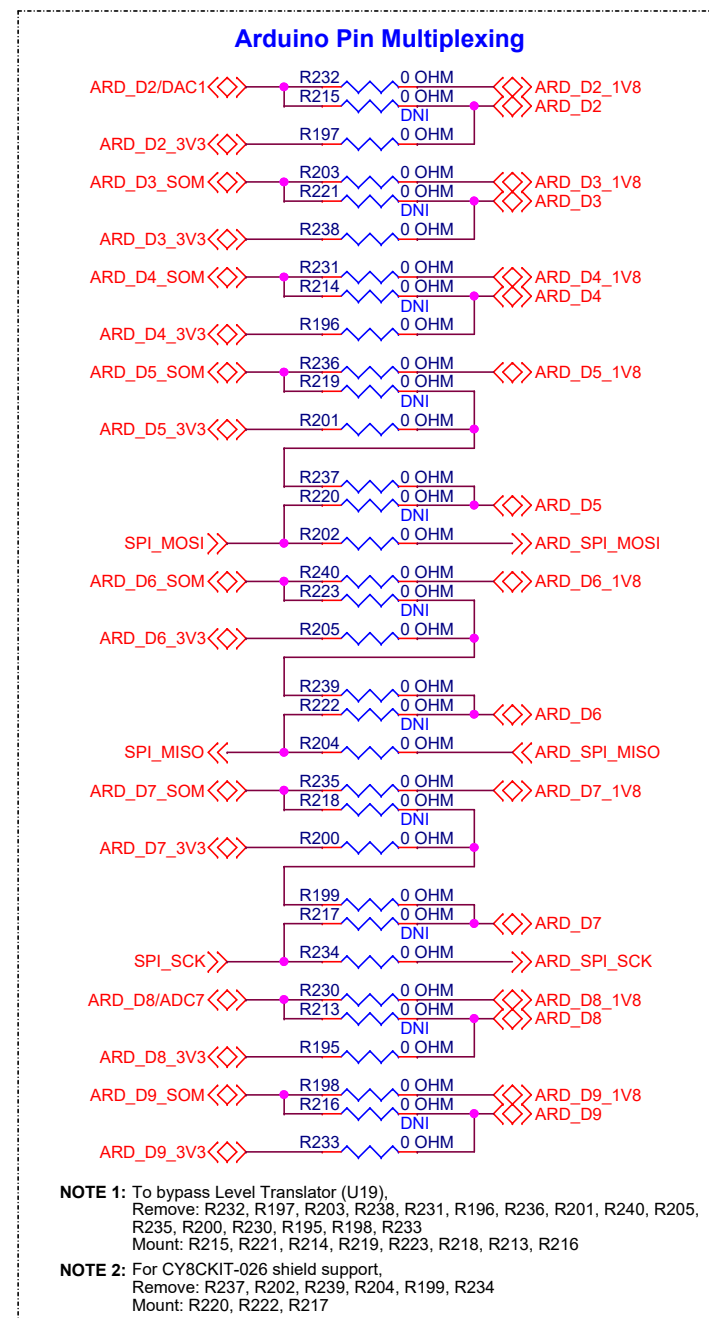
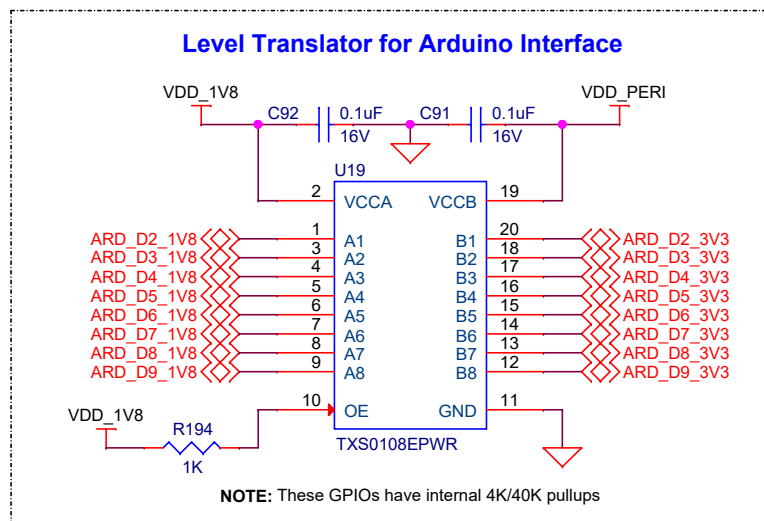
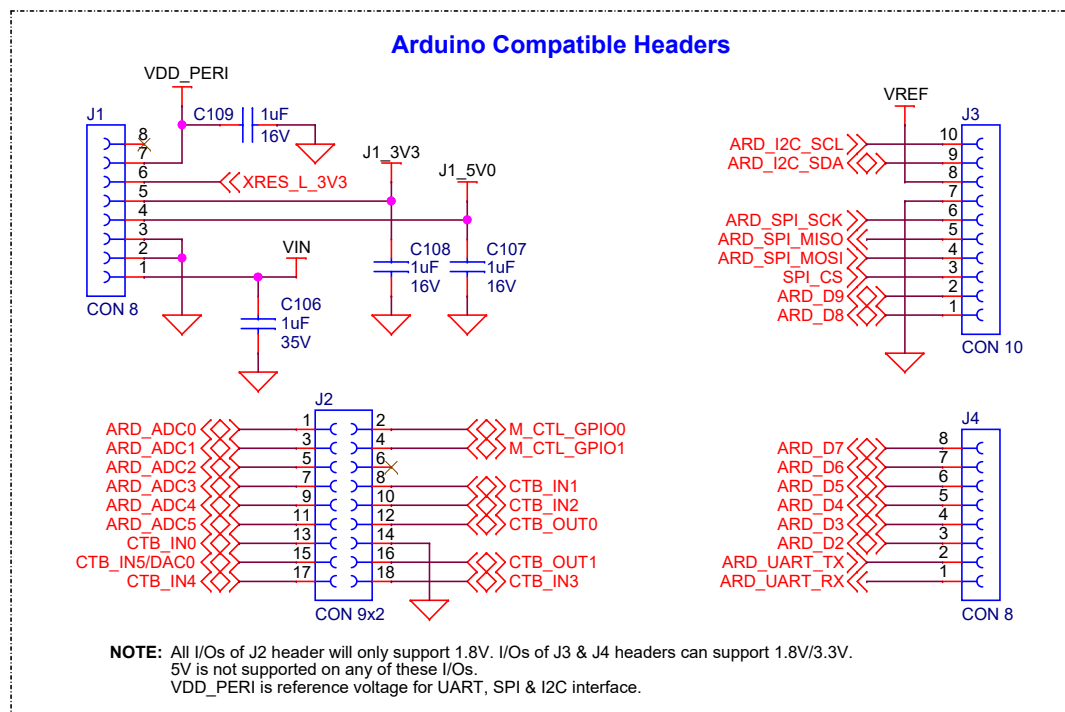


**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title: User Interfaces**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Thursday, August 07, 2025		Sheet	23 of 33





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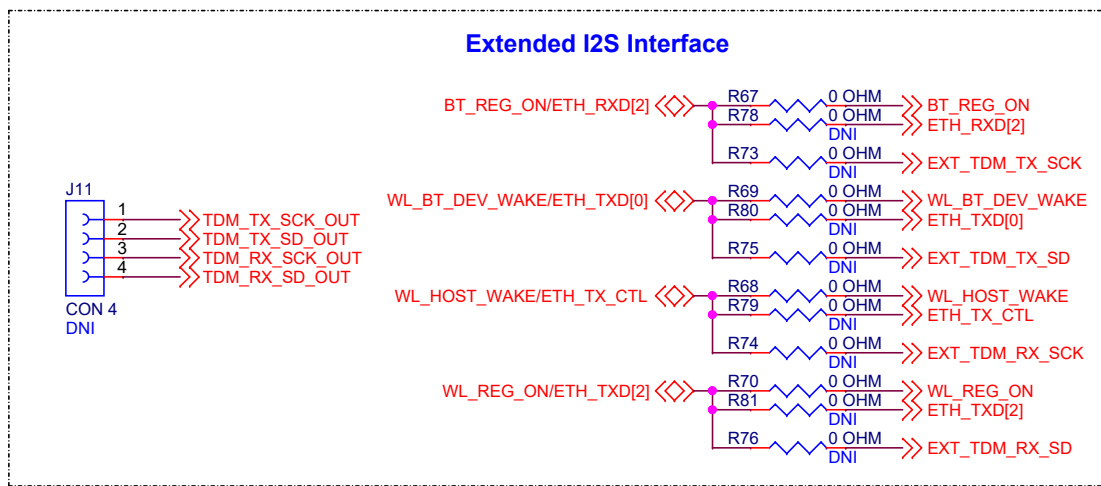
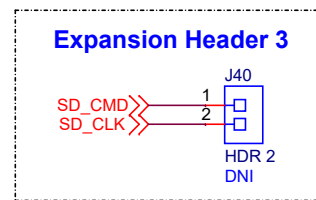
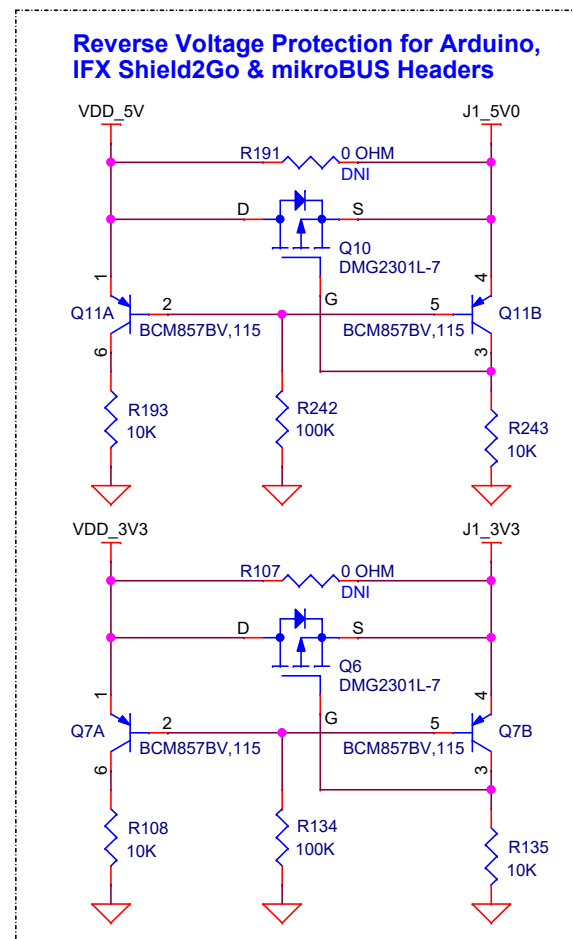
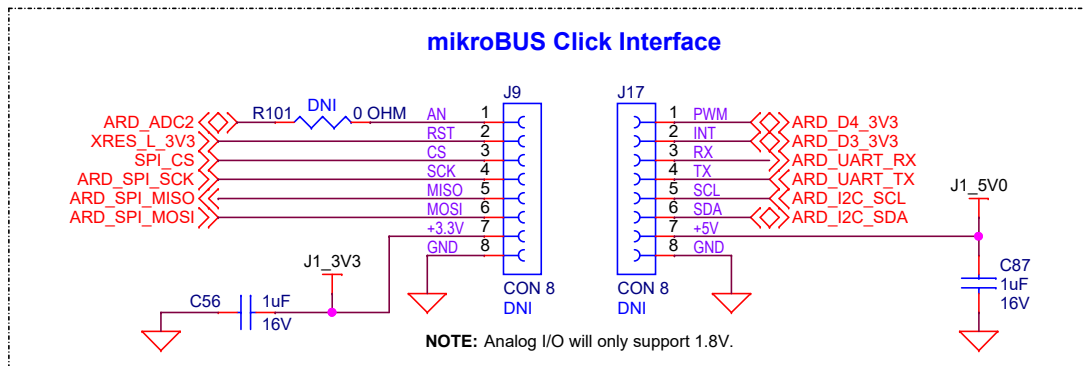
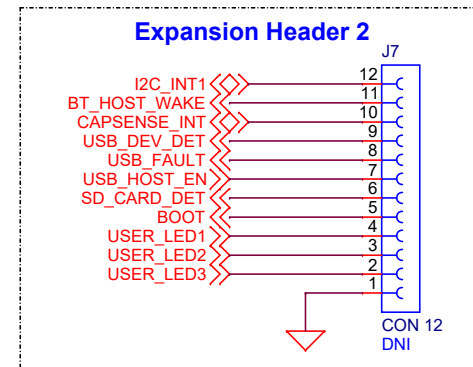
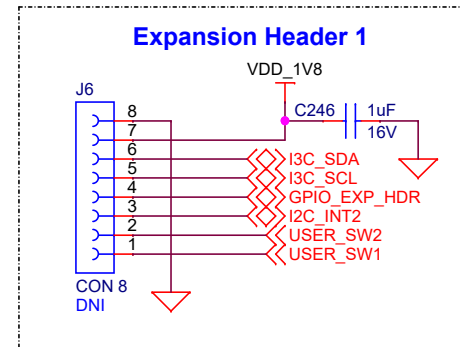
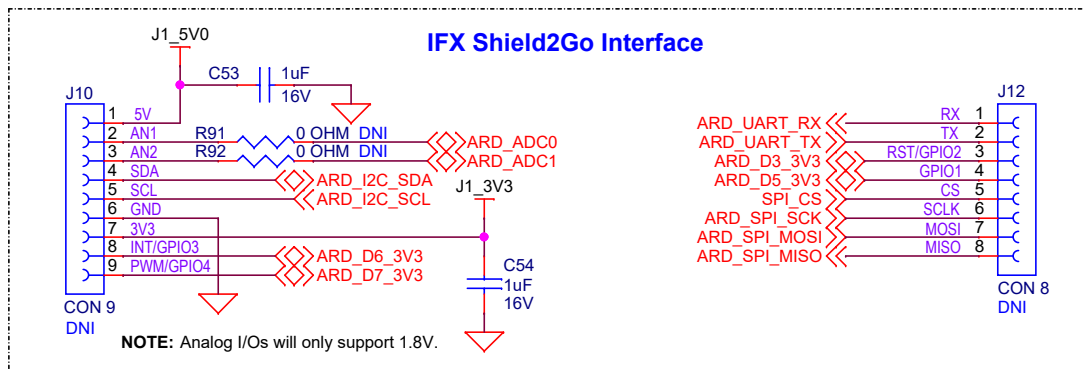


**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title: Arduino Headers**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	24 of 33





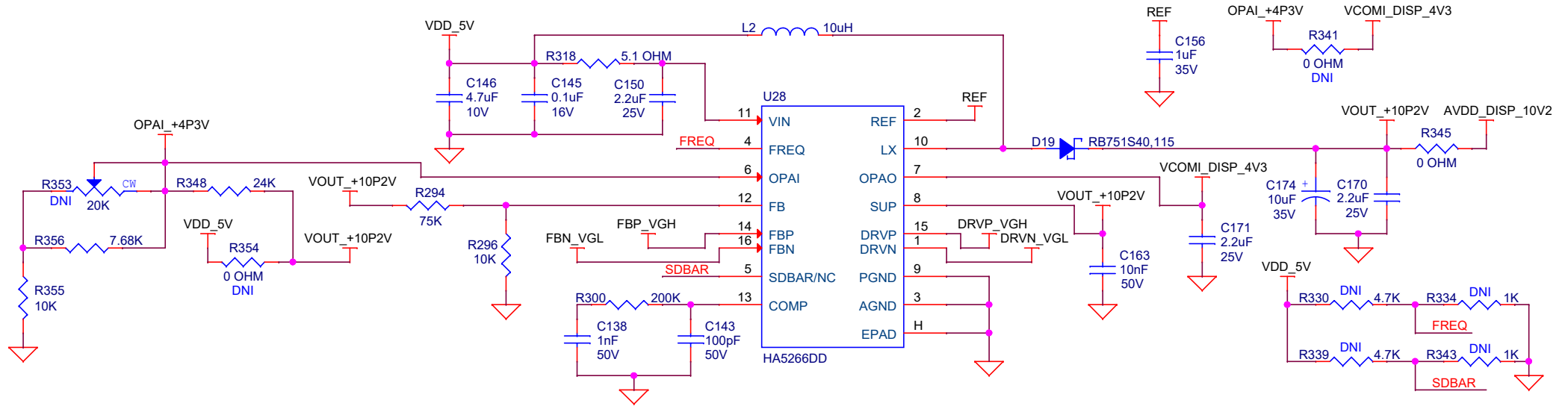
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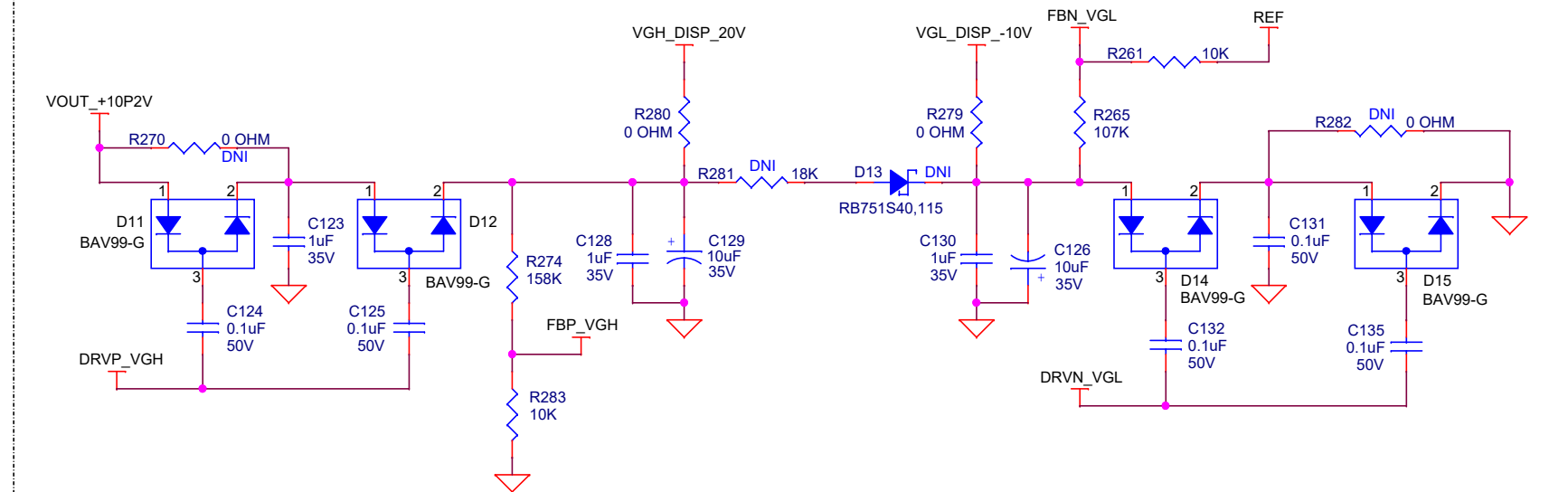
SCH Title : PSOC™ Edge E8 Base Board				
Page Title : Expansion Headers				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	25 of 33



### TFT DC-DC Converter Section



### TFT DC-DC Converter - Positive and Negative Charge pump



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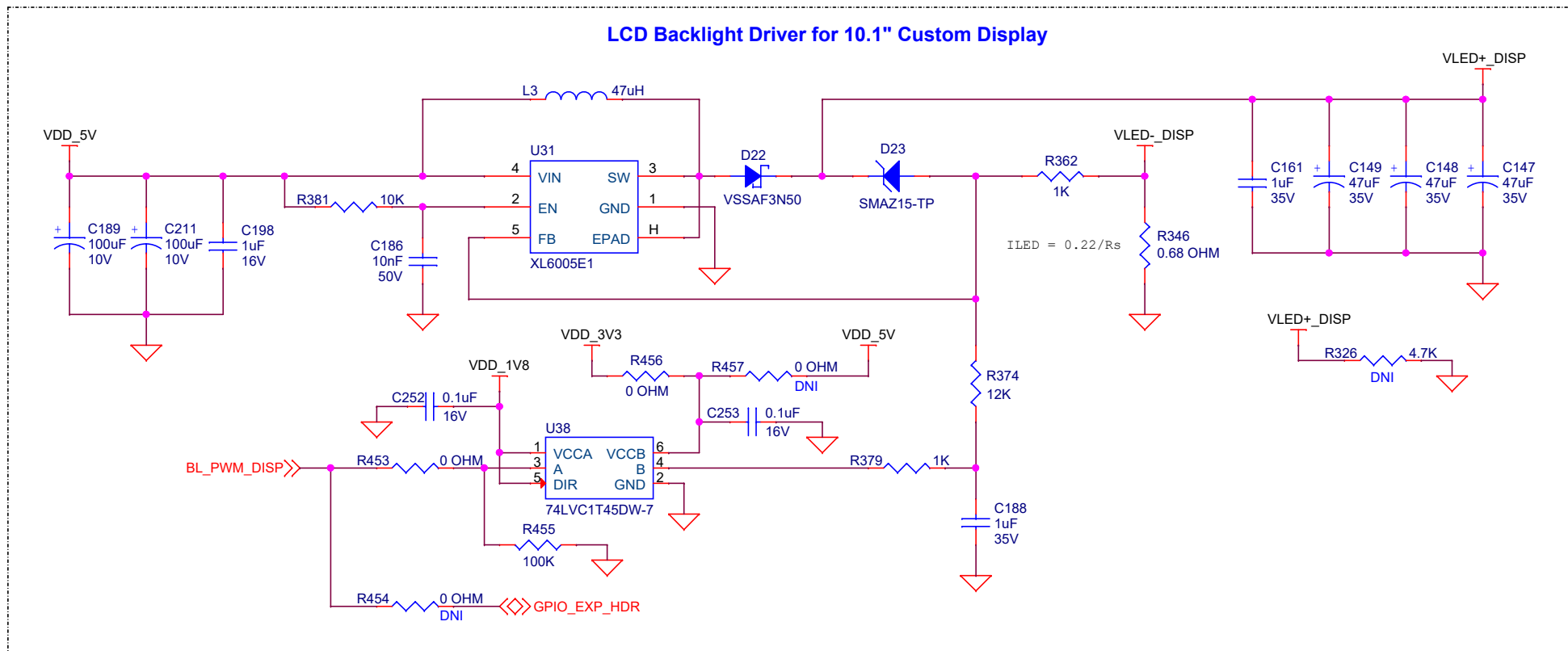


SCH Title : PSOC™ Edge E8 Base Board

Page Title : Display DC-DC Converter

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Thursday, August 07, 2025		Sheet	26 of 33





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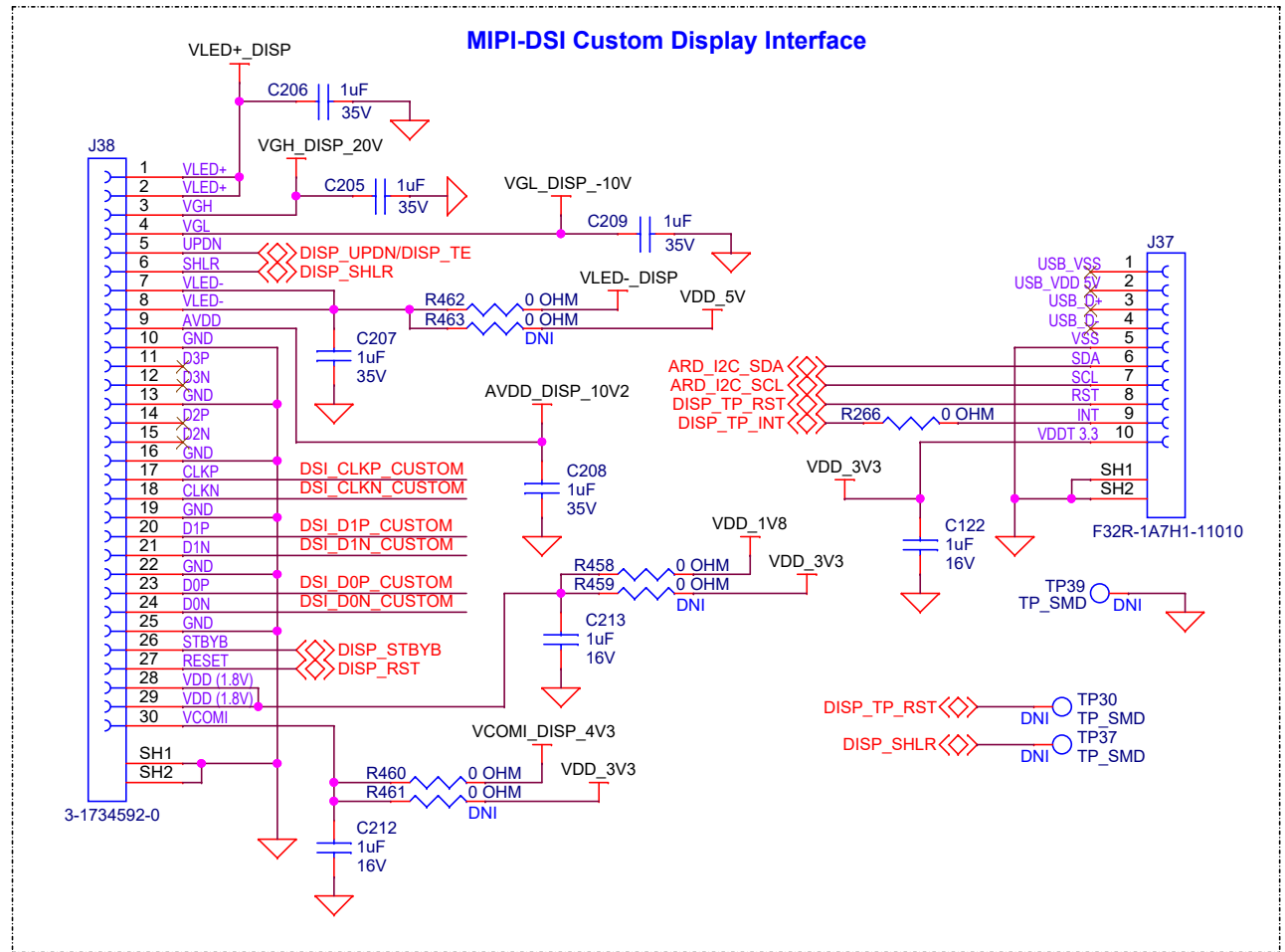
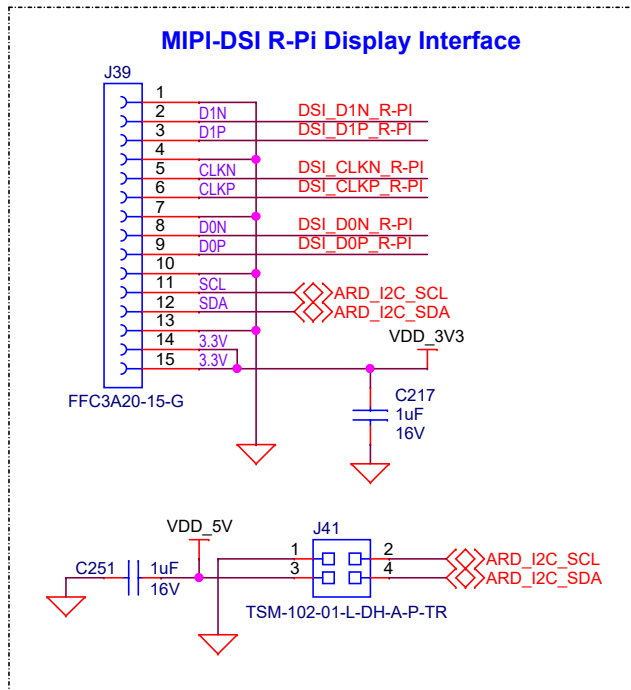
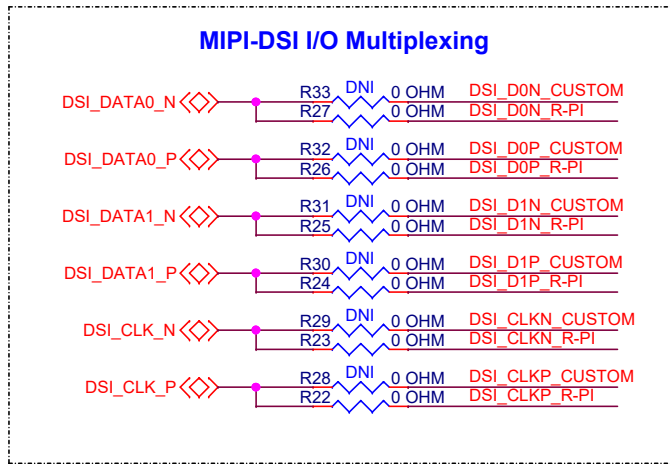


**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title: Display Backlight Driver**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	27 of 33





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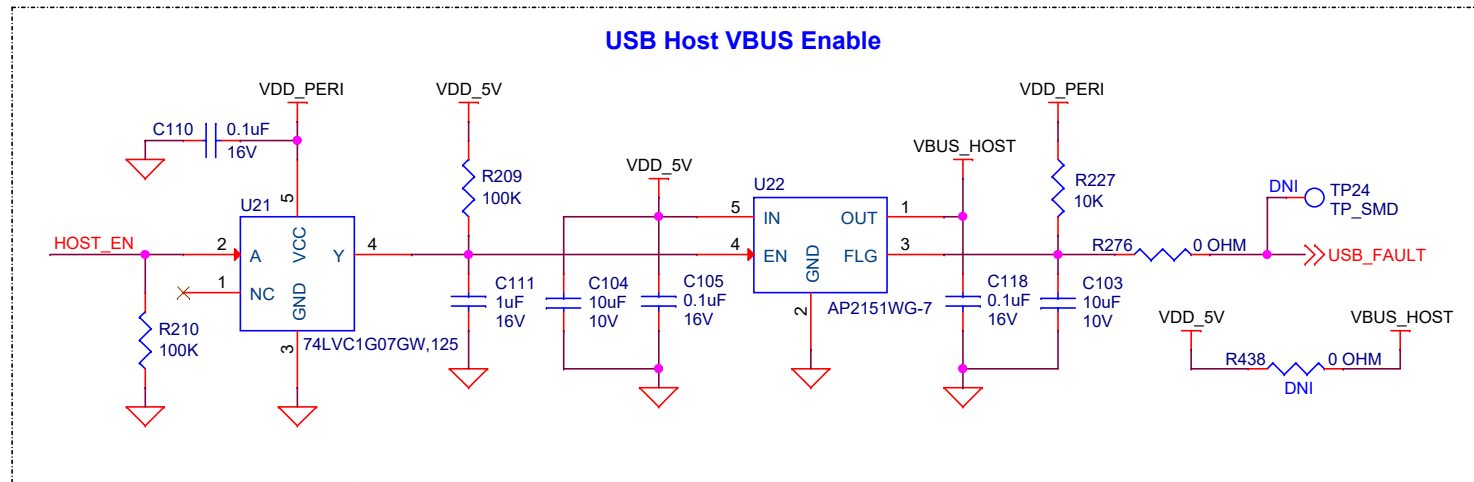
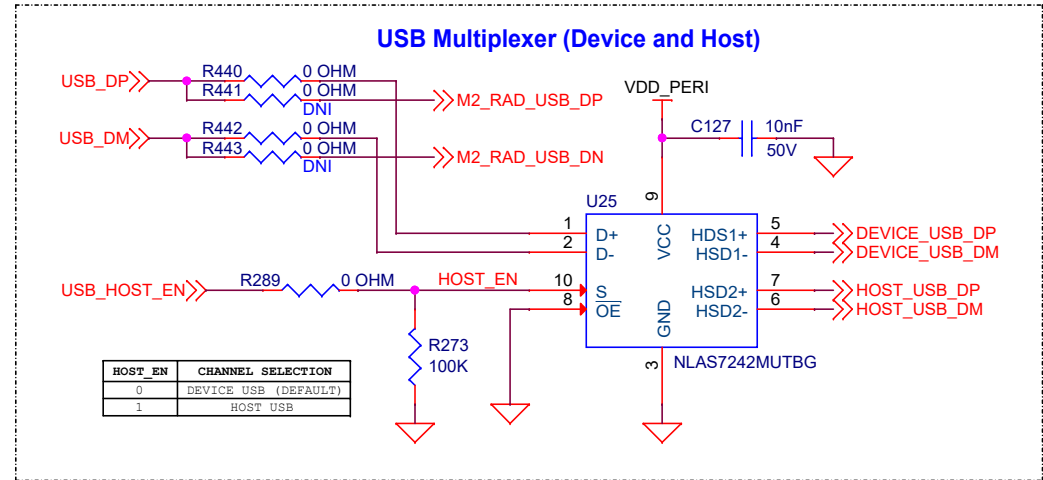
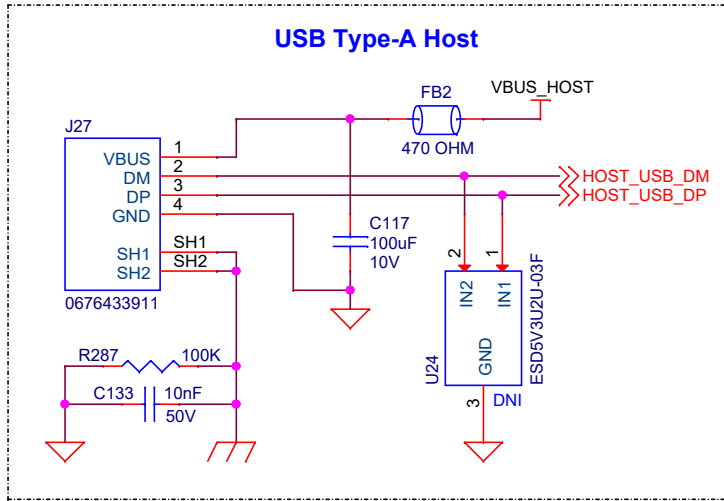


SCH Title : PSOC™ Edge E8 Base Board

Page Title: MIPI-DSI Display Interface

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	28 of 33





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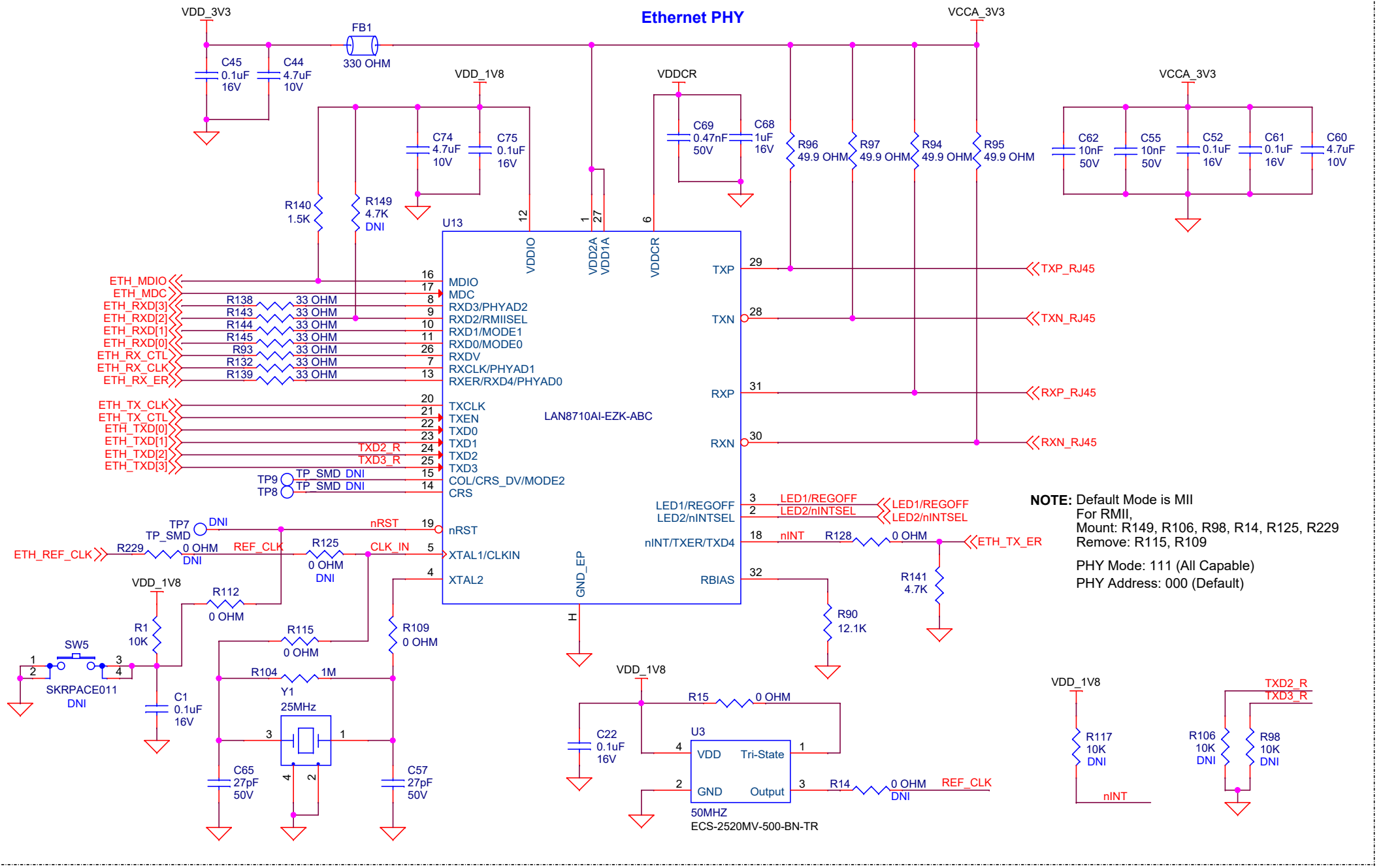


**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title: USB Host**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Thursday, August 07, 2025		Sheet	29 of 33





**NOTE:** Default Mode is MII  
For RMII,  
Mount: R149, R106, R98, R14, R125, R229  
Remove: R115, R109  
PHY Mode: 111 (All Capable)  
PHY Address: 000 (Default)

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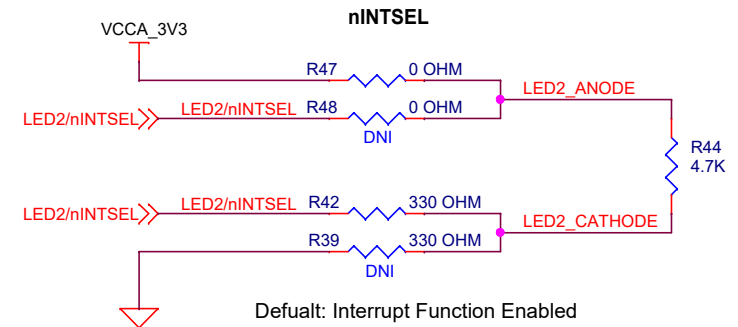
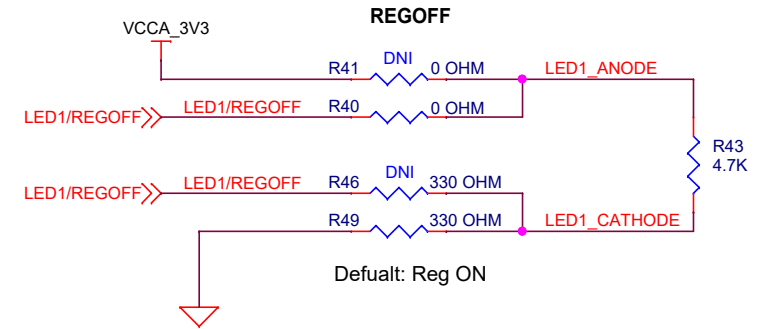
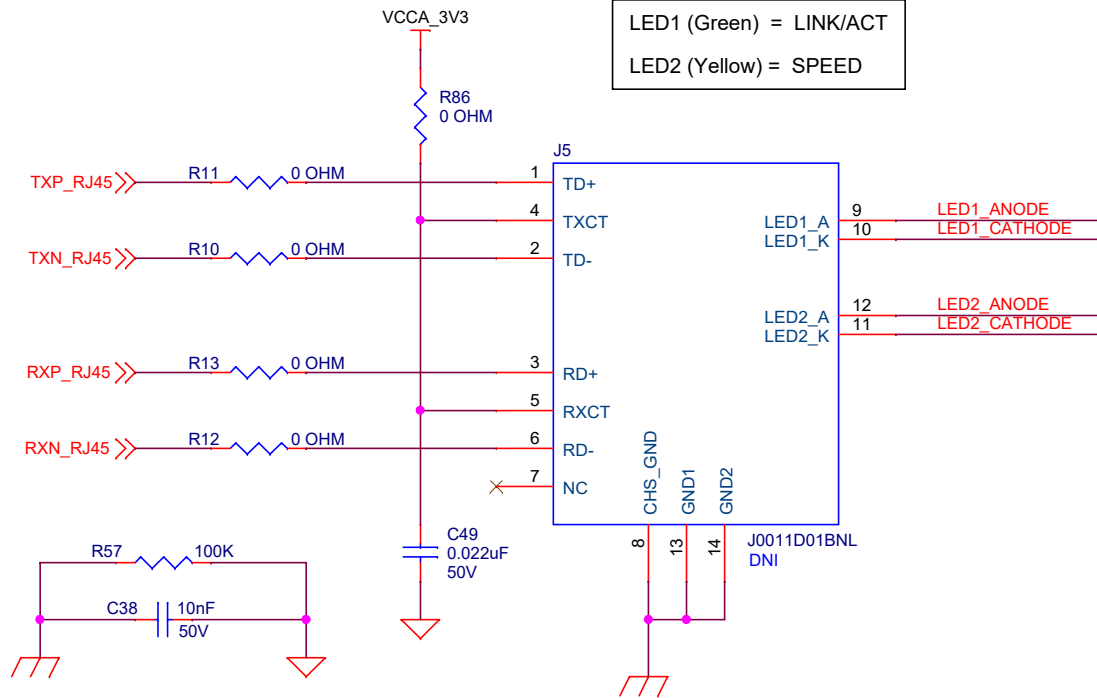
**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title: Ethernet PHY**

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	30 of 33



## RJ45 MagJack



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**SCH Title : PSOC™ Edge E8 Base Board**

**Page Title : RJ45 MagJack**

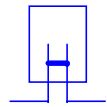
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	31 of 33



# Accessories

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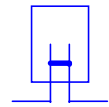
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ACC9

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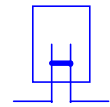
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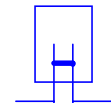
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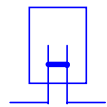
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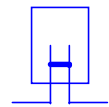
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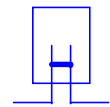
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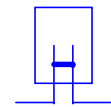
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ACC15

## Jumper

151-8010-E



ACC16

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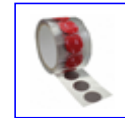
CapSense Overlay

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Finish: Matte  
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Height = 43.94mm  
Thickness = 1mm

ACC17

## Double Sided Tape

TAPE



ACC18

## QR Code

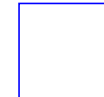
QR Code Label



ACC19

## PCBA Label

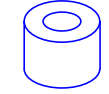
PCA Label



ACC20

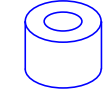
## Hex Standoffs

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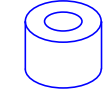
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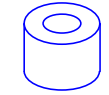
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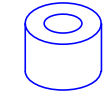
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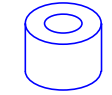
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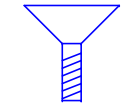
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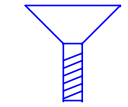
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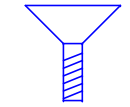
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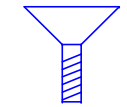
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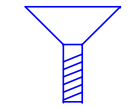
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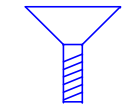
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ACC31

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ACC32

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SCH Title : PSOC™ Edge E8 Base Board

Page Title: Accessories

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Monday, April 28, 2025		Sheet	32 of 33



REVISION HISTORY			
REV	DESCRIPTION OF CHANGE	ORIG. OF CHANGE	DATE
0.1	Initial Draft	RISR	2023/04/01
1.0	<div>1. Kit MPN updated</div> <div>2. Power Switch section added.</div> <div>3. Variable Buck feedback resistor values updated.</div> <div>4. KP3 Secondary UART and JTAG support added.</div> <div>5. Provision for bypassing I2C Level trans added.</div> <div>6. Removed M0 prog/debug option.</div> <div>7. SoM connector J28 pinout updated:<div>a. Declustered Ethernet and ARD pins.</div><div>b. Proximity, CAPSENSE_INT pin added.</div></div> <div>8. I2C_INT1 multiplexed with 6-axis IMU INT1 &amp; INT2.</div> <div>9. Pin multiplexing for Radio updated</div> <div>10. Proximity connector added.</div> <div>11. Added provision to bypass the ARD level trans and connect directly to ARD Hdr.</div> <div>12. SPI pins routing provision to J4 Hdr. Given for -026 CAN/LIN shield support.</div> <div>13. CTB/GPIO pins, CAPSENSE_INT pins routed to Exp. Hdr.</div> <div>14. Pullup added &amp; pulldown removed on Ethernet PHY RXD2/RMIISEL signal</div> <div>15. Back annotated</div> <div>16. J6 changed to 8-pin header, J7 changed to 12-pin header</div>	RISR	2023/07/17
2.0	<div>1. PDM CLK/Data signals are swapped on SoM connector.</div> <div>2. Ext. I2S pins connected through 3.3V level translator.</div> <div>3. Multiplexed SD_CLK &amp; SD_CMD to Exp. header 3.</div> <div>4. Updated IMU (BMI270) + Mag (BMM350) sections.</div> <div>5. BOOT0 pin removed from Boot Sw. and used it for SD_CARD_DET. Previously used SD_CARD_DET pin is made NC on SoM connector.</div> <div>6. XRES pullup made DNI.</div> <div>7. R353 made as DNI.</div> <div>8. Added R439 on BT_HOST_WAKE.</div>	RISR	2023/10/23
3.0	<div>1. User button debounce capacitors C229, C230 made populated</div> <div>2. Removed connections CTB/GPIO1, CTB/GPIO2, CTB/GPIO3 from Exp Hdr 1 (J6)</div> <div>3. Added 1.8V (with C246) and GND connections to Exp Hdr 1 (J6)</div> <div>4. Replaced PDM mics with new part: IM72D128V01XTMA1</div> <div>5. Multiplexed USB connection to M.2 Radio module using R440-R443</div> <div>6. Provided optional POT connection to the LPCOMP input P10.4 (BT_HOST_WAKE) through R444</div> <div>7. I3C support provided for Magnetometer (U4) by default, multiplexed with I2C as DNI</div> <div>8. AMIC signal processing ckt. updated</div> <div>9. J41 connector added for R-Pi display power &amp; I2C interface</div> <div>10. Multiplexed BL_PWM_DISP to Exp Header 1 (J6.4) through R453, R454</div> <div>11. Made R-Pi display interface as default connection and 10-inch custom DSI as DNI</div> <div>12. R342, R329 made as DNI</div> <div>13. Alternate Serial Interface Configuration table updated</div> <div>14. Level translator (U38) added for backlight control in LCD Backlight Driver section</div> <div>15. Added multiplexing resistors R458, R459, R460, R461 to select between 1.8V/3.3V/4.3V for display</div>	RISR	2024/06/10
4.0	<div>1. J41 changed to dual row header</div> <div>2. Changed 15-pin R-Pi display connector (J39) to vertical mount</div> <div>3. Support for 1.43-inch display through 30-pin custom display connector</div> <div>4. C229, C230 debounce capacitors made as DNI</div>	RISR	2025/01/13
5.0	<div>1. Cosmetic changes and clean-up of passive component properties</div>	RKPM	2025/08/07

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SCH Title : PSOC™ Edge E8 Base Board				
Page Title: Revision History 1				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60647-01	RISR	RKPM	5.0
Date:	Thursday, August 07, 2025		Sheet	33 of 33