KIT_PSC3M8_EVK

PSOC™ Control C3M8 Evaluation Kit

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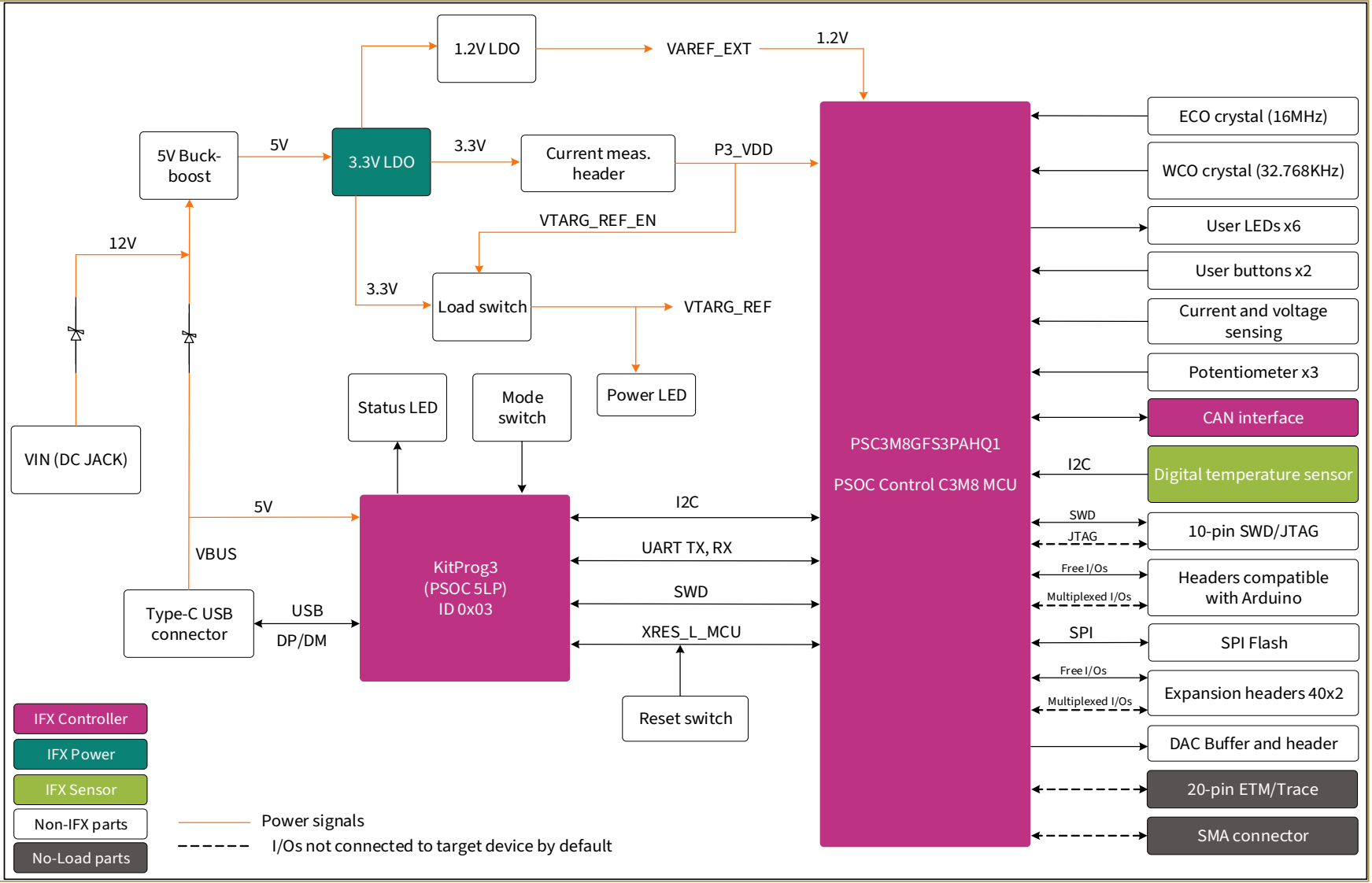
Drawing Numbers

PCBA	121-60765-01
PCB	600-60765-01
FAB DRW	610-60765-01
ASSY DRW	620-60765-01
SCH DRW	630-60765-01

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SCH Title : PSOC™ Control C3M8 Evaluation Kit				
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Size	Document Number	Drawn By	Approved By	Rev
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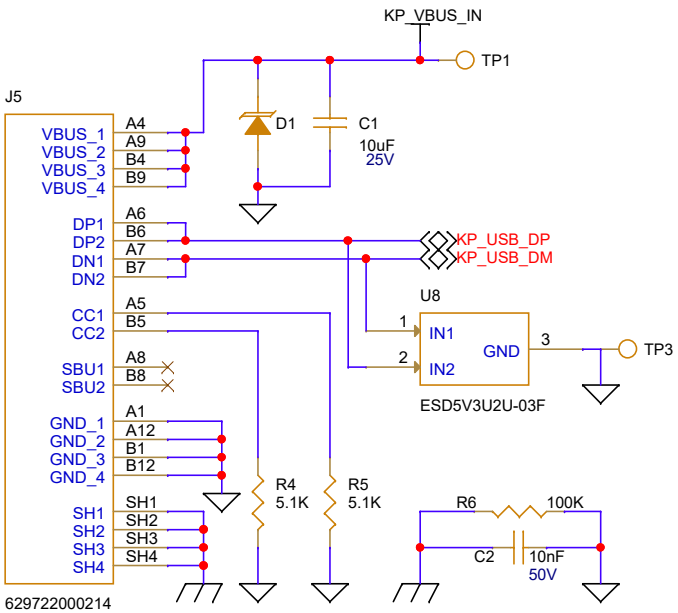
KIT_PSC3M8_EVK Block diagram



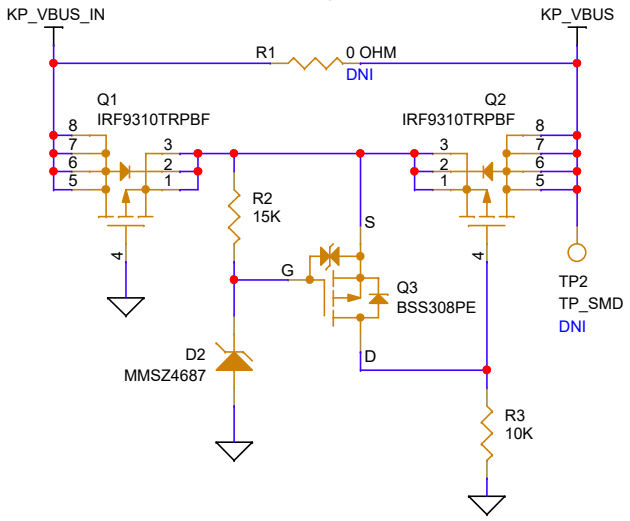
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Page Title: Block Diagram				
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Date: Wednesday, November 12, 2025		Sheet 2 of 15		

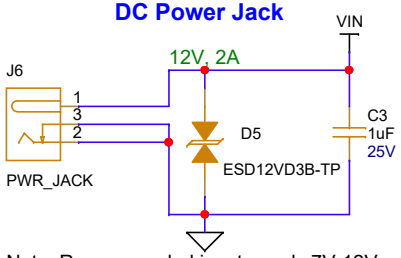
USB Type-C Interface



5V Overvoltage Protection

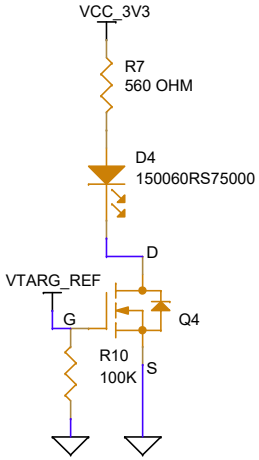


DC Power Jack

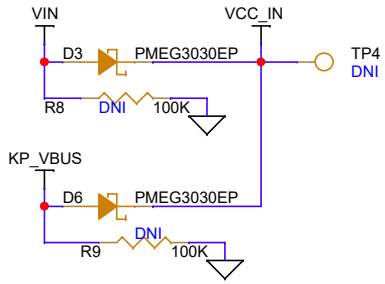


Note: Recommonded input supply 7V-12V

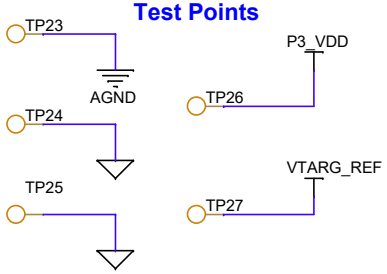
Power LED



Power Supply 'OR'ing



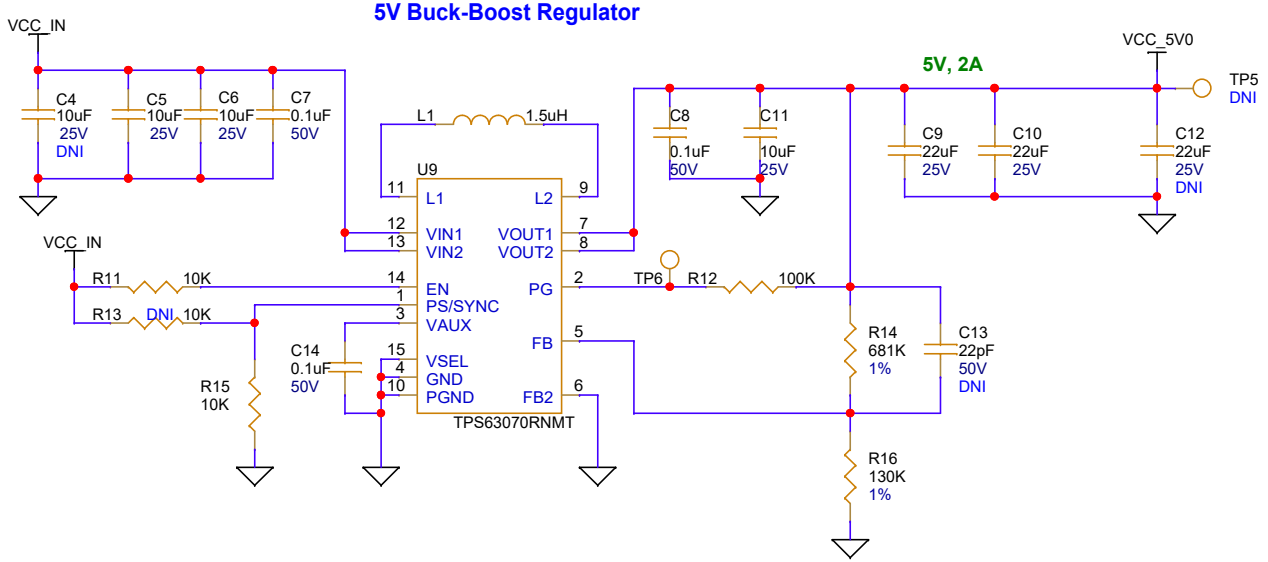
Test Points



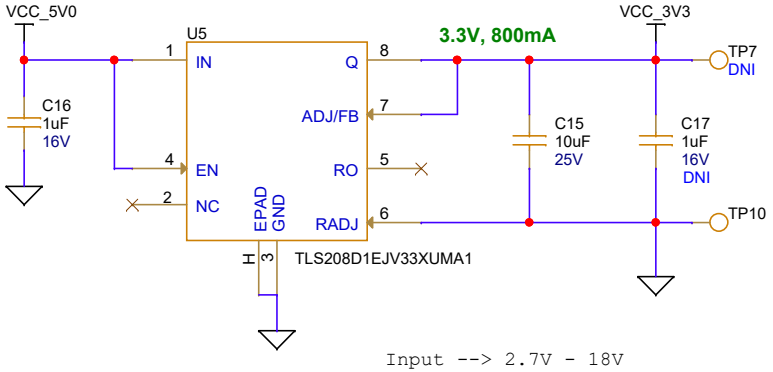
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Page Title: Power Supply -1				
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5V Buck-Boost Regulator

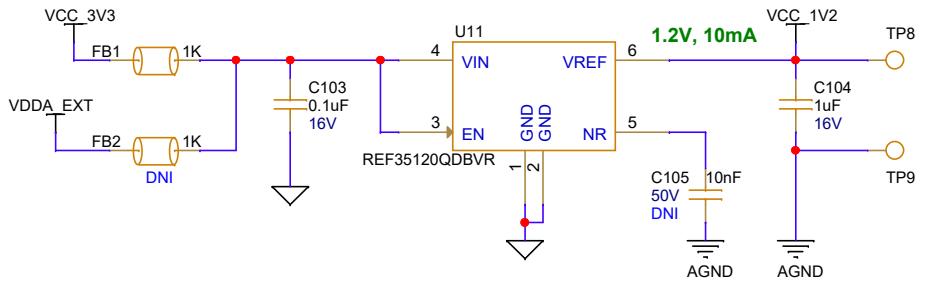


3.3V Power Supply (LDO)




```
Input --> 2.7V - 18V
Output --> 3.3V
IDC --> 800mA
Iq --> 90uA
```

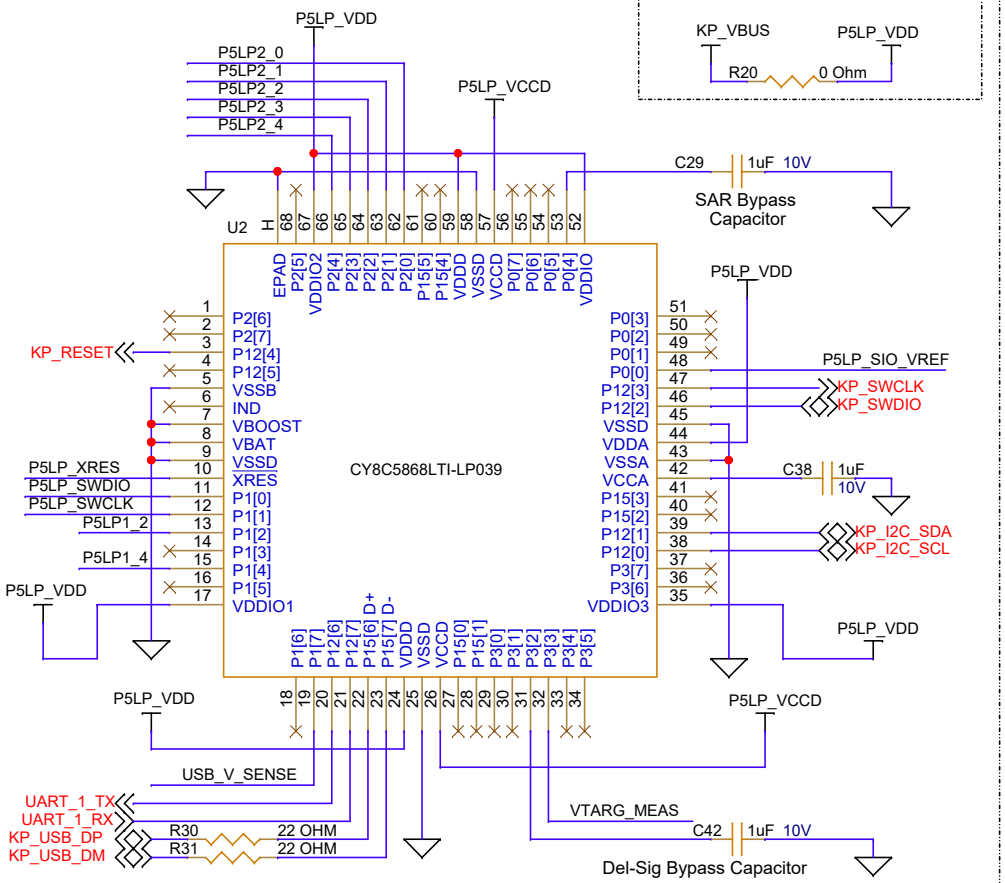
1.2V Power Supply (VAREF)



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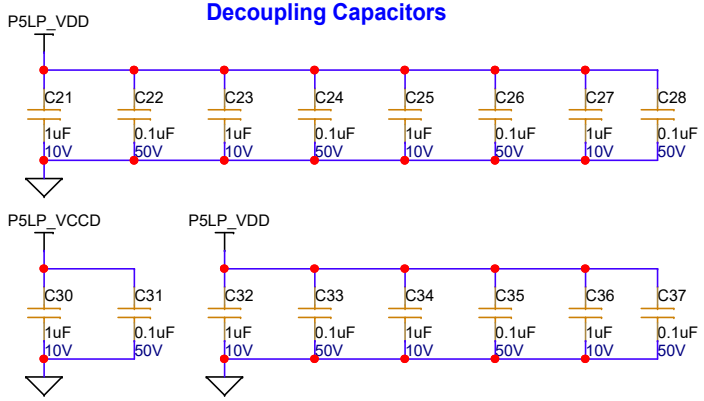
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Page Title: Power Supply - 2				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60765-01	SAMANTH	RKAD	03
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PSOC™ 5LP based KitProg3

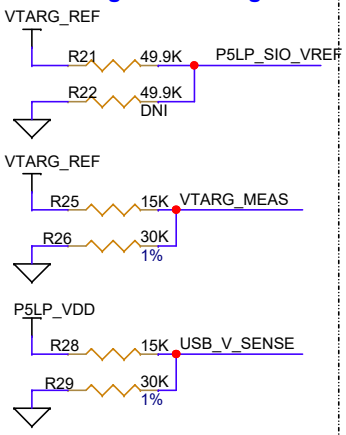


PSOC™ 5LP Power

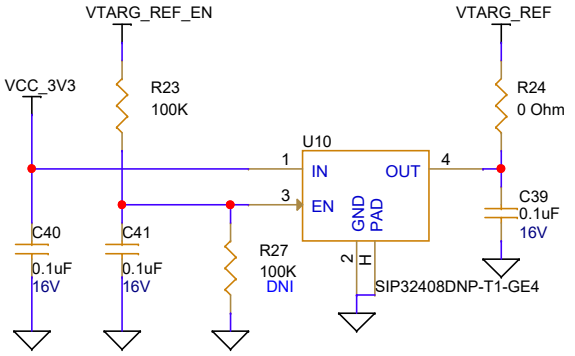
Decoupling Capacitors



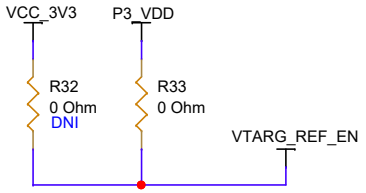
Voltage Monitoring



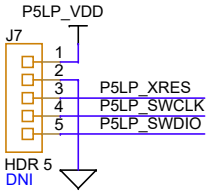
VTARG REF. Voltage



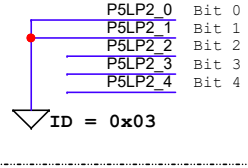
Note: Switch is used to reduce the leakage on P3_VDD domain.



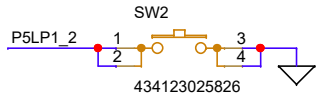
Optional Programming Header



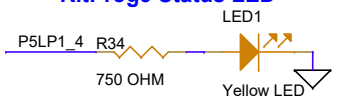
KitProg3 H/W Revision



Mode Switch

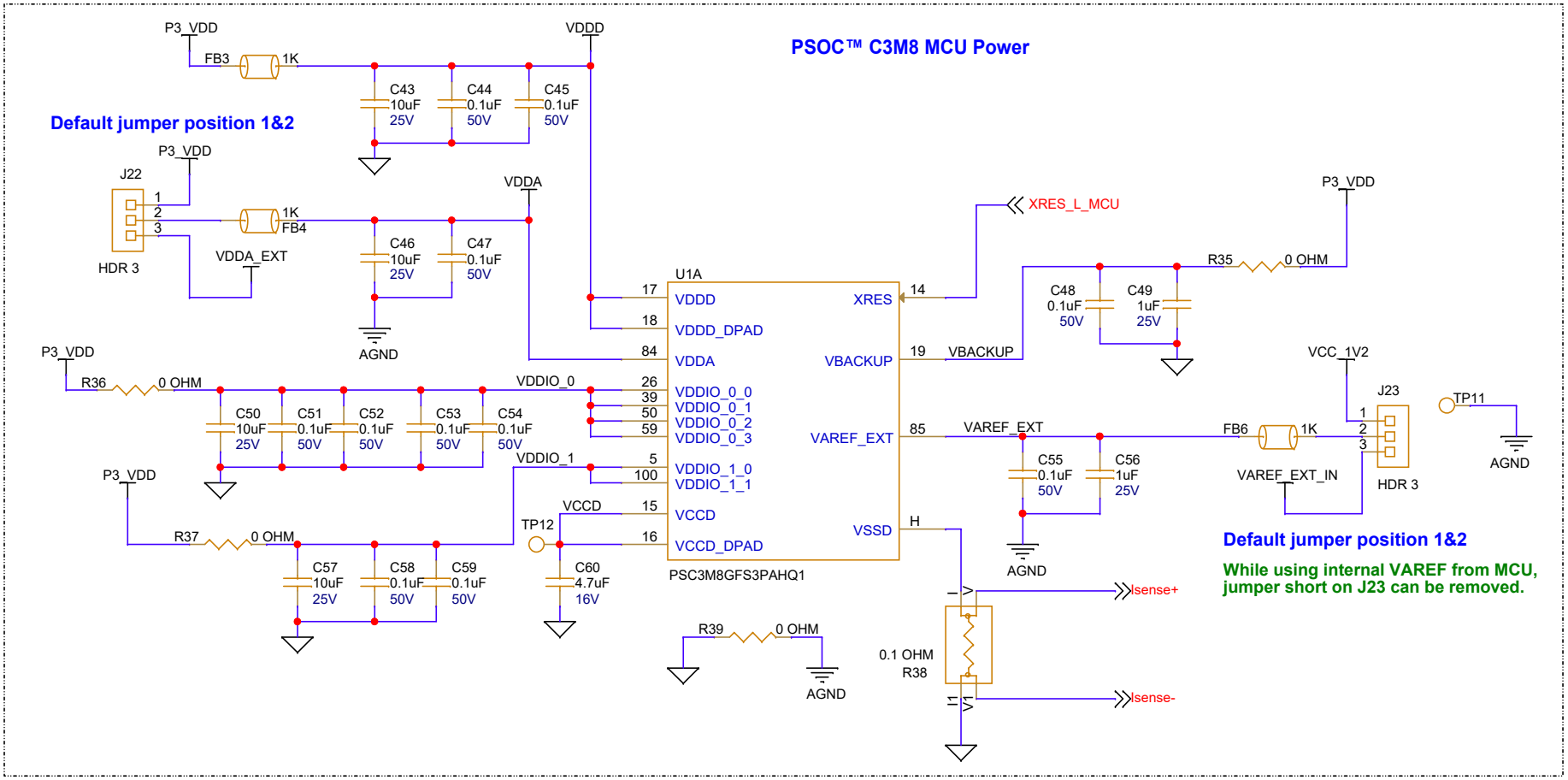


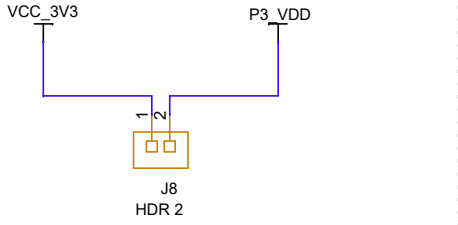
KitProg3 Status LED

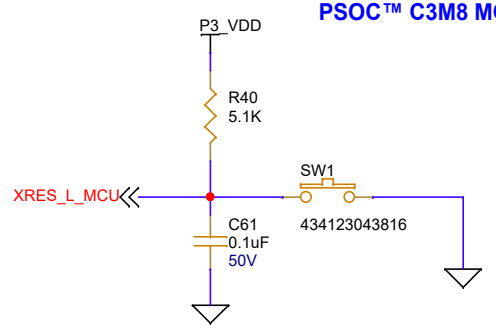


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SCH Title : **PSOC™ Control C3M8 Evaluation Kit**				
Page Title: **KitProg3 Interface**				
Size	Document Number	Drawn By	Approved By	Rev
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Date: Wednesday, May 06, 2026		Sheet **5** of **15**		



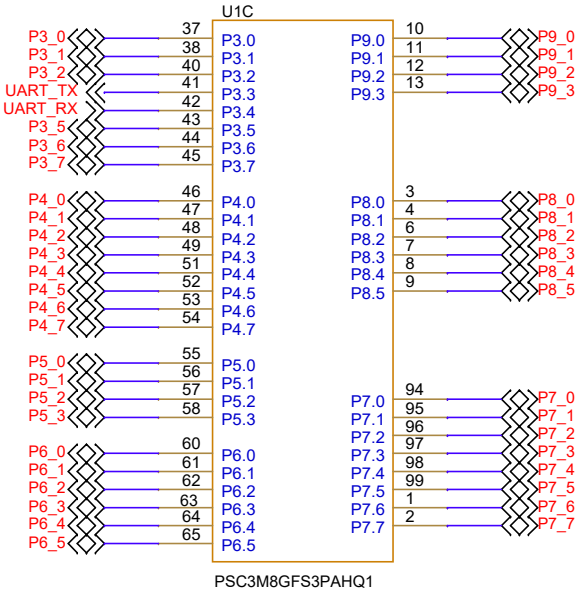


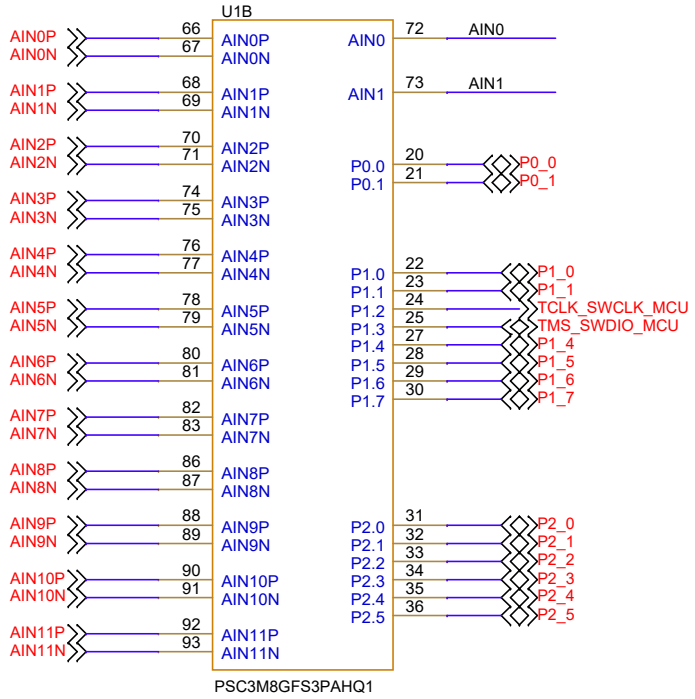


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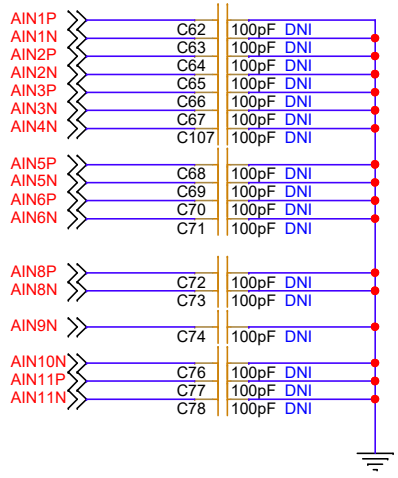
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Size	Document Number	Drawn By	Approved By	Rev
A4	630-60765-01	SAMANTH	RKAD	03
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PSOC™ Control C3M8 Signals

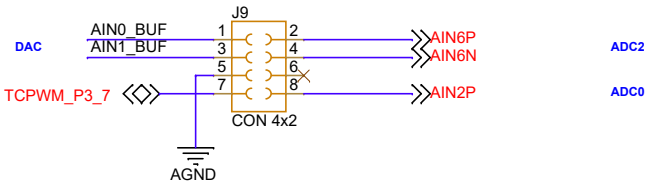




Antialiasing filter provision for ADC input

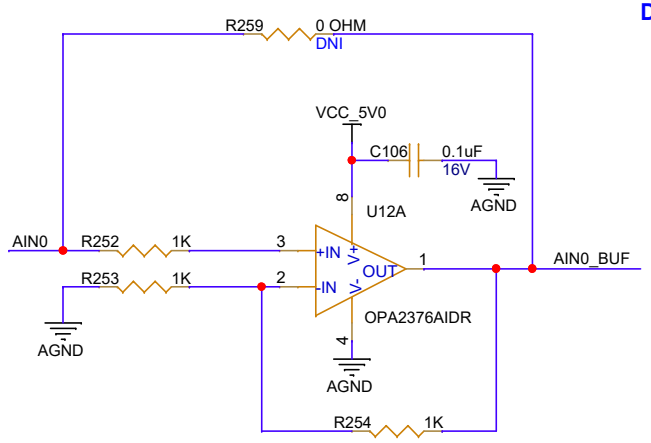


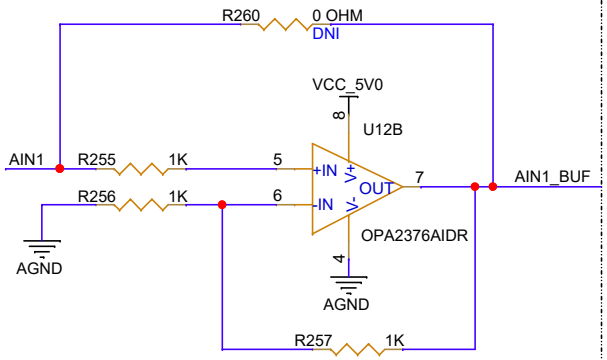
DAC - ADC Interface Header



Jumper POS	Interface
Pin1 & Pin2	AIN0 to AIN6P
Pin3 & Pin4	AIN1 to AIN6N
Pin7 & Pin8	TCPWM to AIN2P

DAC Buffer

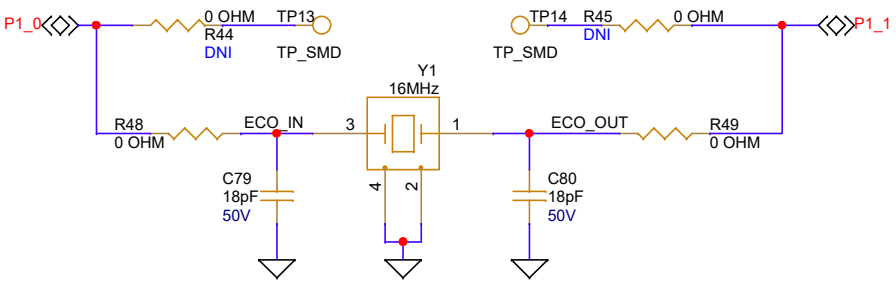




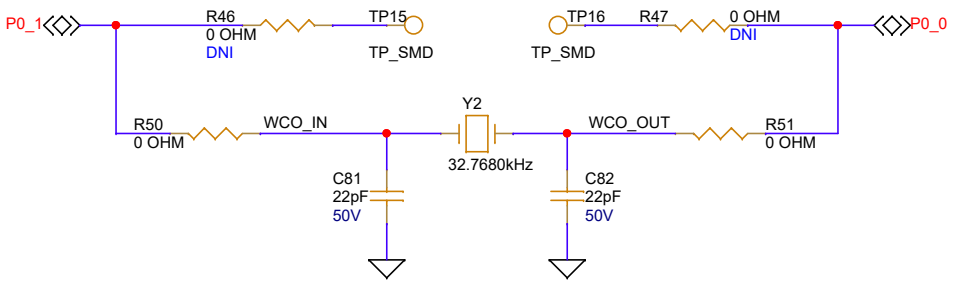
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Page Title: PSOC™ C3M8 MCU SIGNALS				
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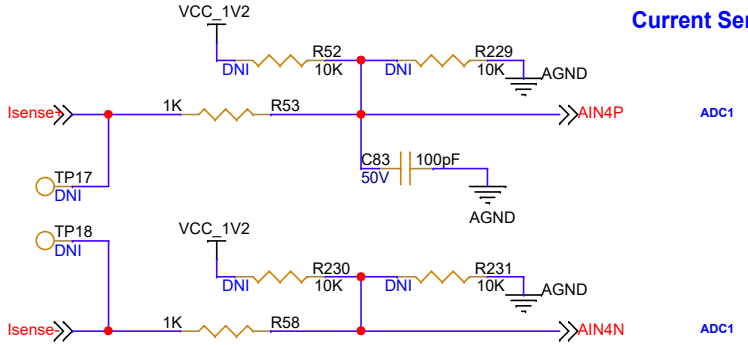
ECO-16MHz



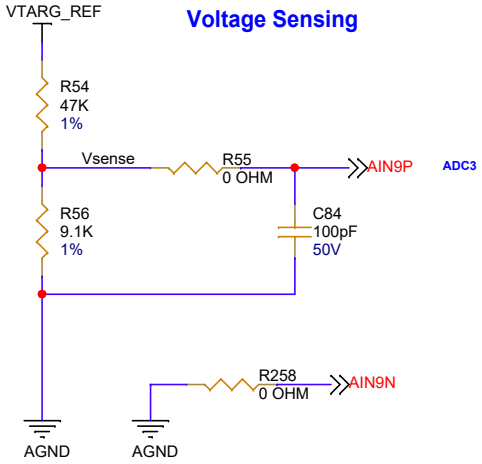
WCO-32.768KHz



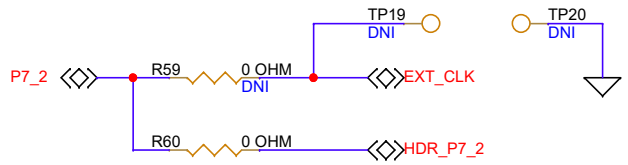
Current Sensing



Voltage Sensing



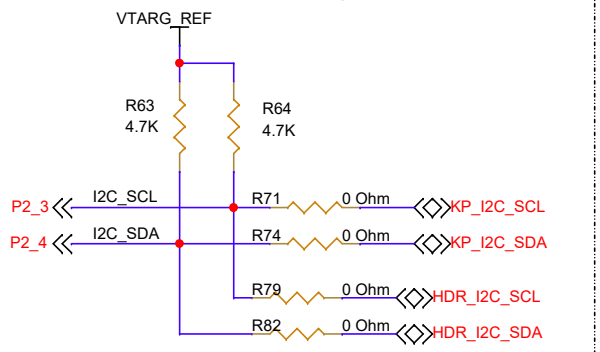
Provision for external clock source



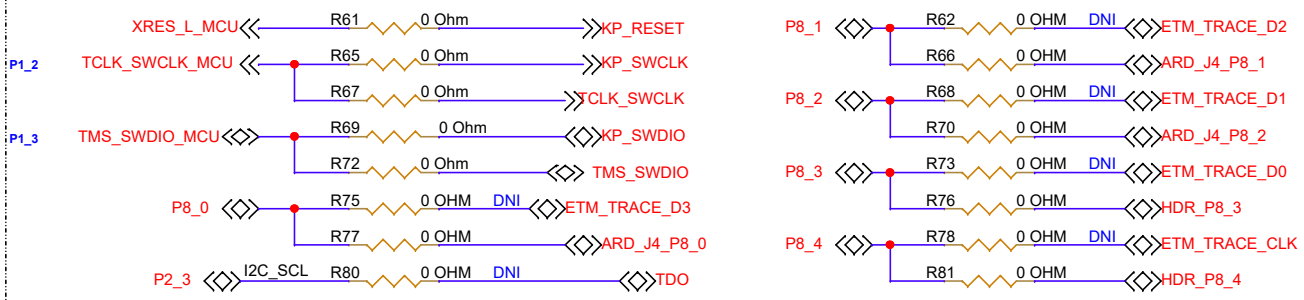
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SCH Title : PSOC™ Control C3M8 Evaluation Kit				
Page Title: ECO, WCO & CURRENT SENSING				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60765-01	SAMANTH	RKAD	03
Date: Wednesday, May 06, 2026		Sheet 8 of 15		

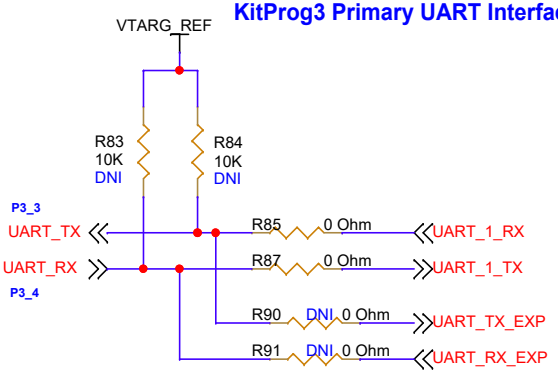
KitProg3 I2C Interface



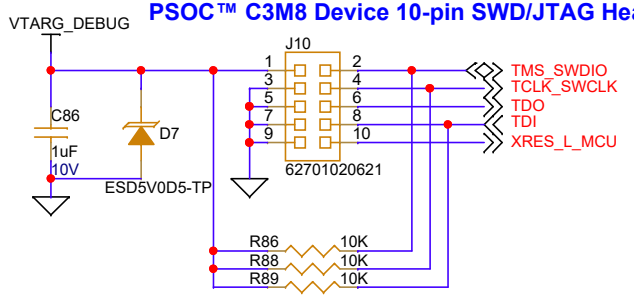
JTAG and ETM signal multiplexing



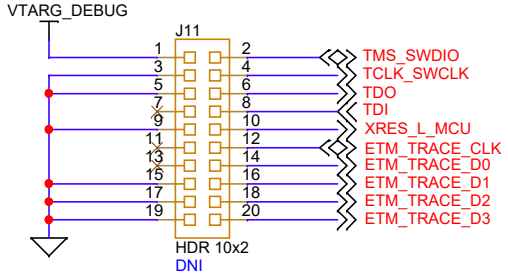
KitProg3 Primary UART Interface



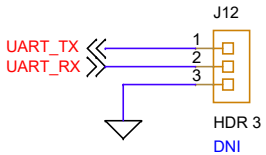
PSOC™ C3M8 Device 10-pin SWD/JTAG Header



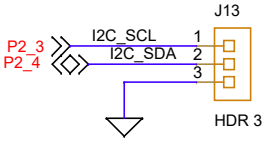
ETM Header



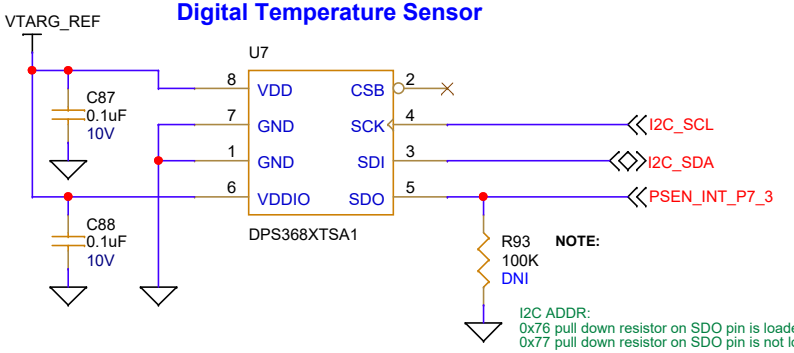
UART header



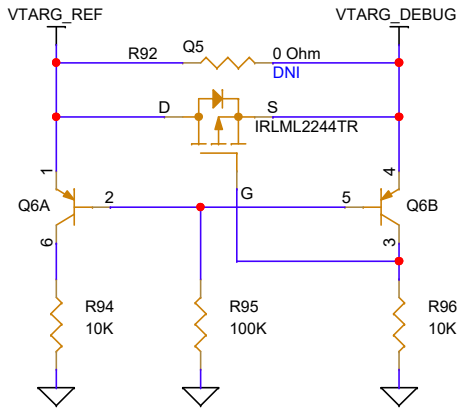
I2C header



Digital Temperature Sensor



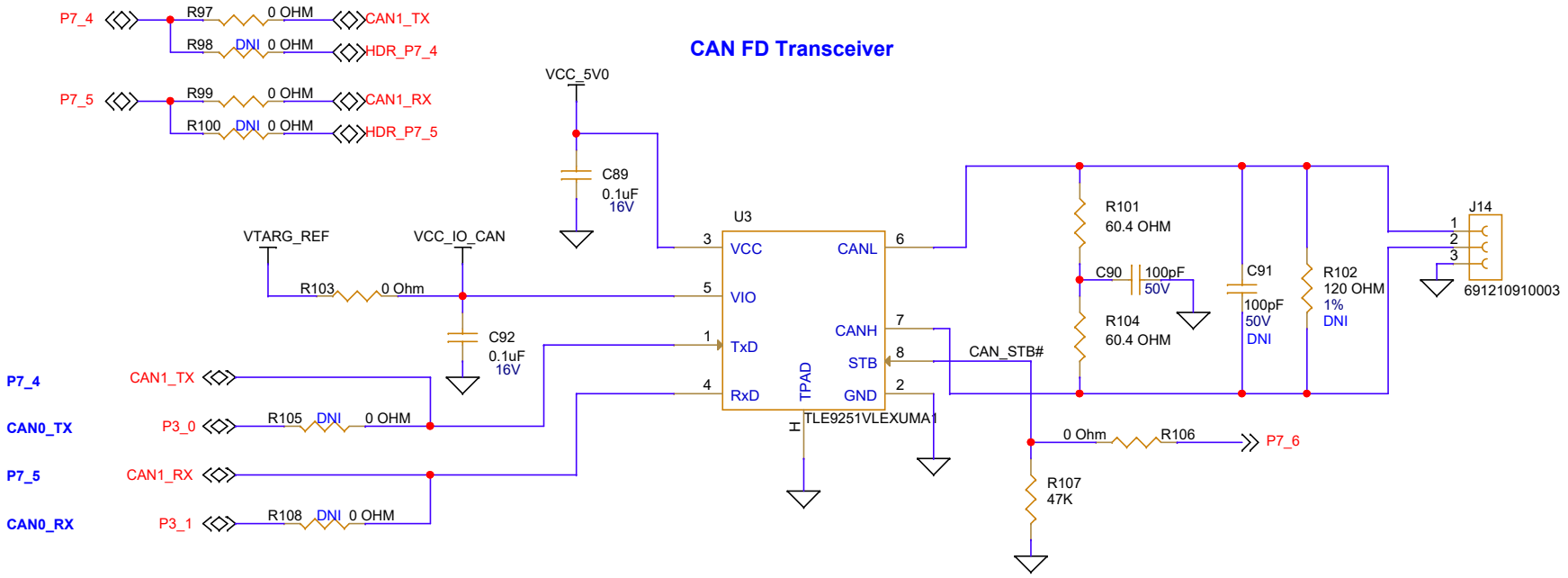
VTARG_REF Reverse Voltage Protection



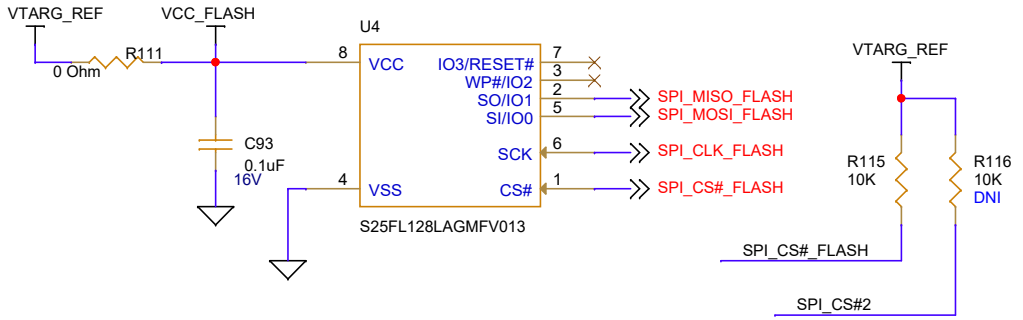
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SCH Title : **PSOC™ Control C3M8 Evaluation Kit**				
Page Title: **Communication and Programming**				
Size: A4	Document Number: **630-60765-01**	Drawn By: **SAMANTH**	Approved By: **RKAD**	Rev: **03**
Date: Wednesday, May 06, 2026		Sheet **9** of **15**		

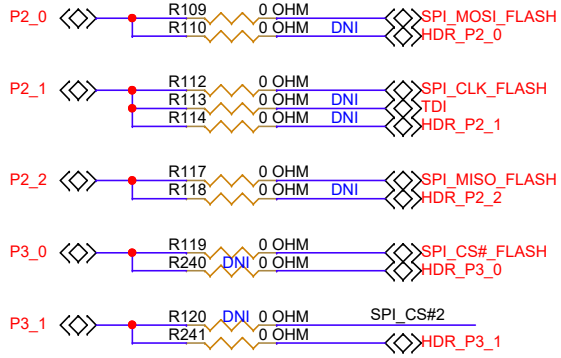
CAN FD Transceiver



NOR Flash(Optional)



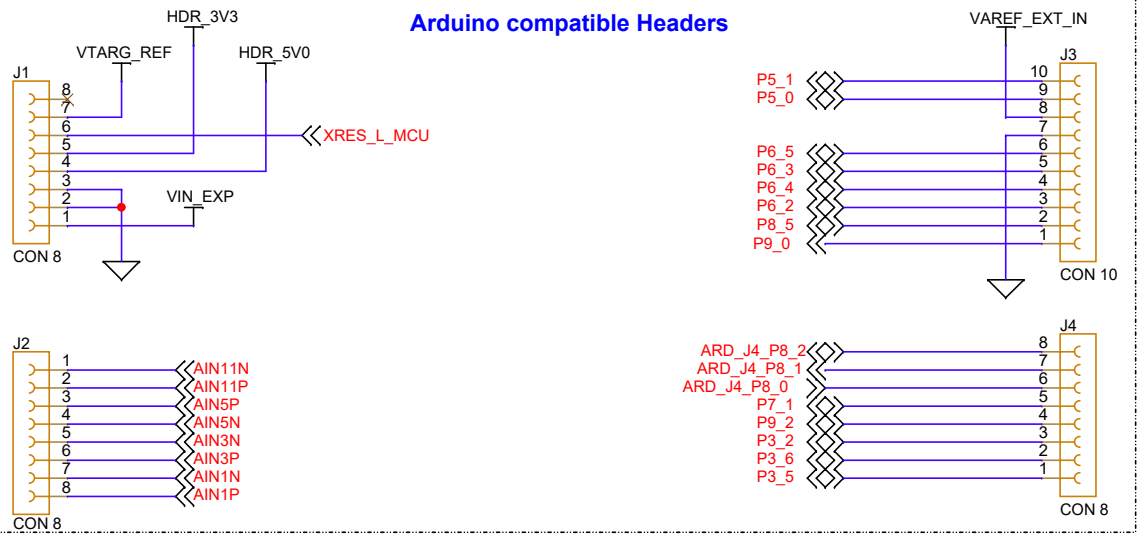
NOR Flash signal multiplexing



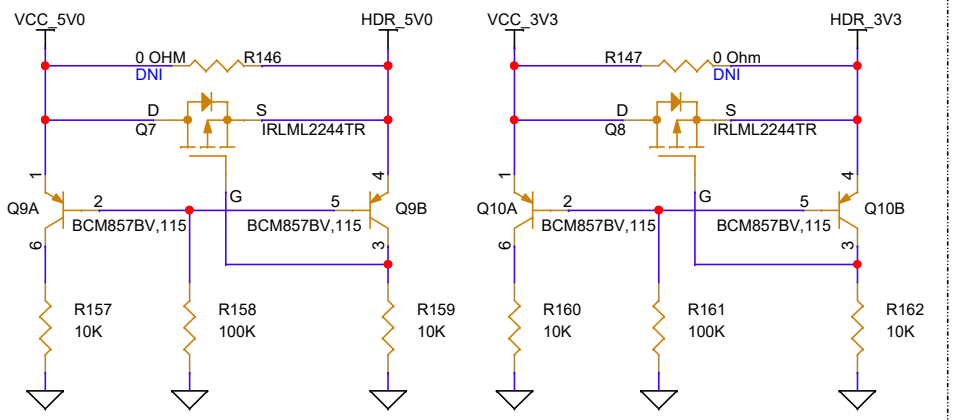
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SCH Title : PSOC™ Control C3M8 Evaluation Kit				
Page Title: CAN & SPI Interface				
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Arduino compatible Headers



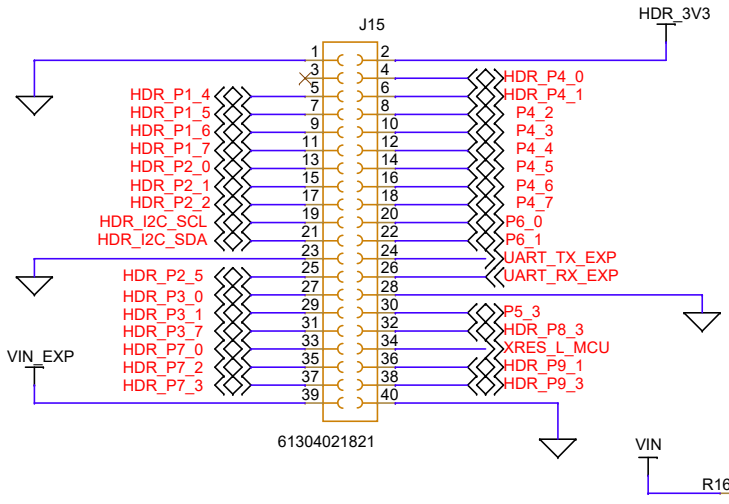
Reverse Voltage Protection for Arduino Power



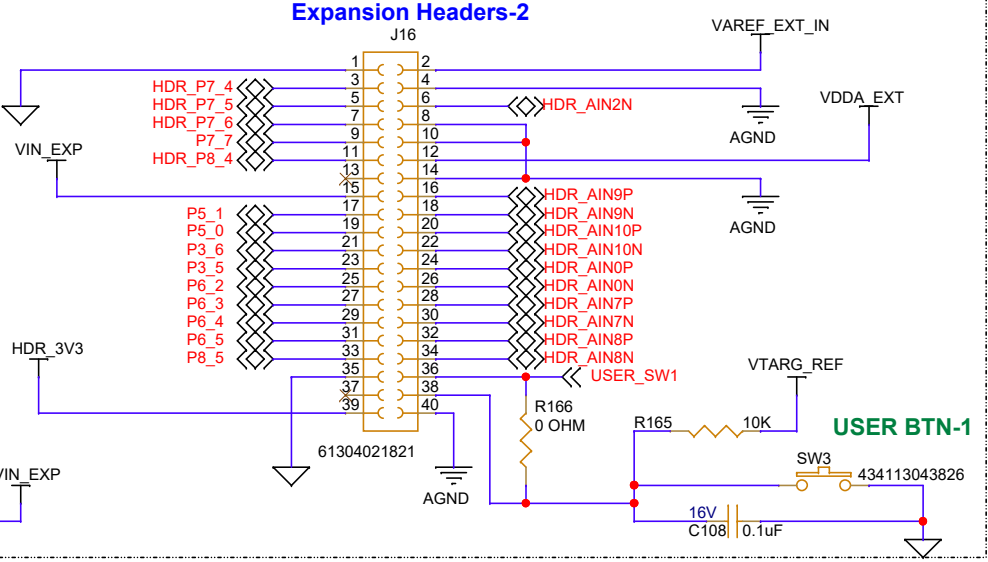
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Page Title: Peripheral Interface Headers				
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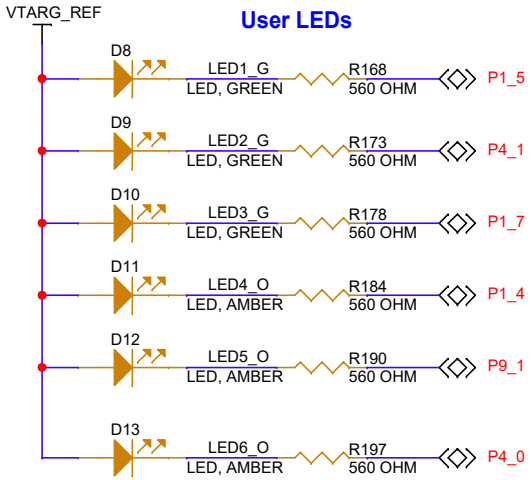
Expansion Headers-1

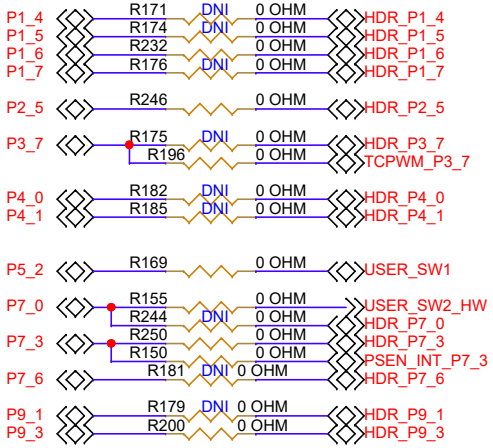


Expansion Headers-2

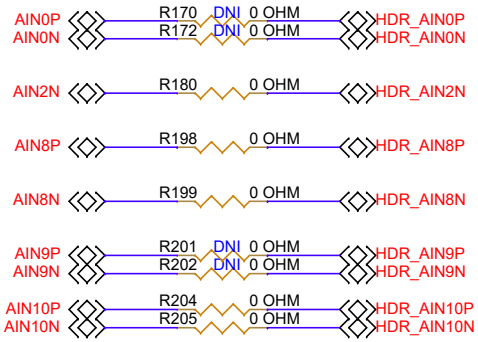


User LEDs

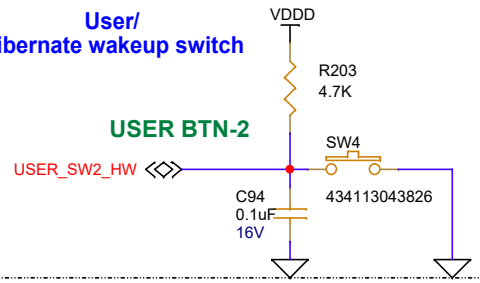




Expansion header signals (multiplexed)

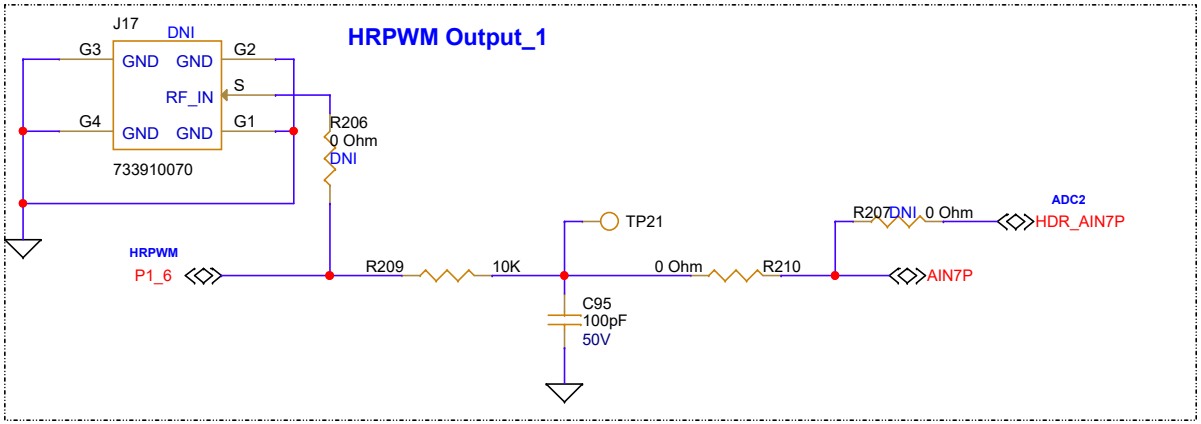


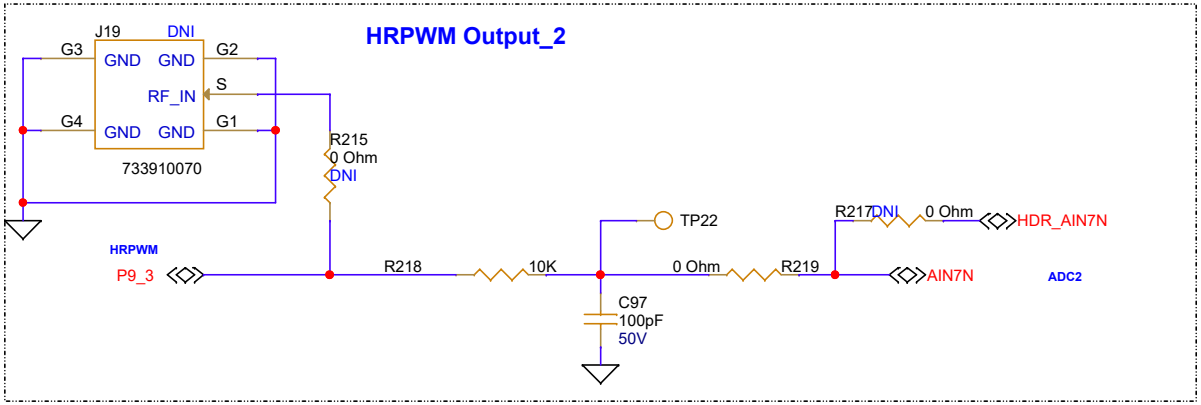
User/ Hibernate wakeup switch

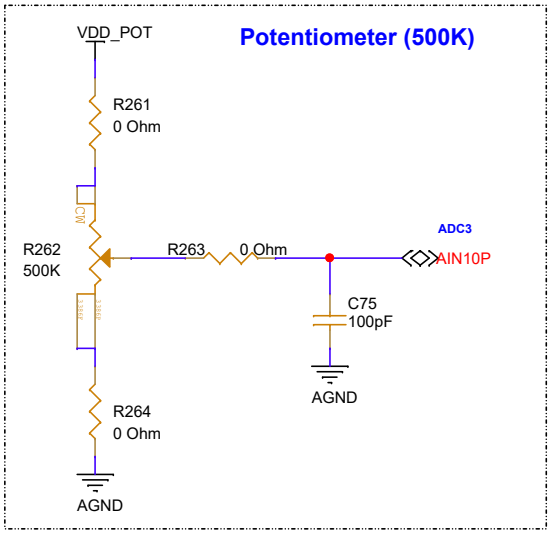


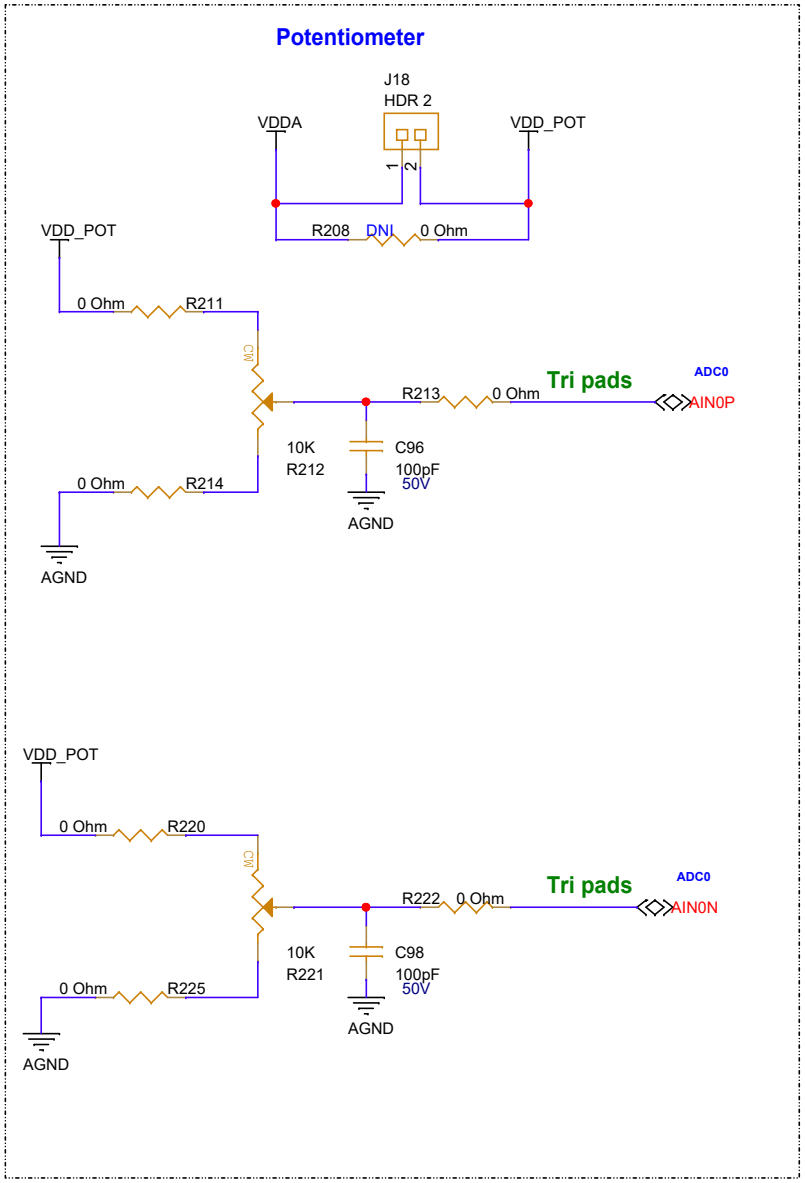
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SCH Title : **PSOC™ Control C3M8 Evaluation Kit**				
Page Title: **Expansion Headers, LED & Buttons**				
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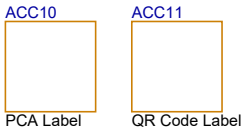
SCH Title : **PSOC™ Control C3M8 Evaluation Kit**				
Page Title: **HRPWM and Potentiometer**				
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Accessories

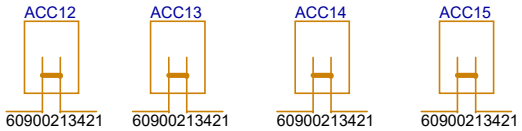
Cylindrical Bump-ons



PCBA Labels



Jumper Shunts



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Page Title: Accessories				
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REVISION HISTORY

REV	DESCRIPTION OF CHANGE	ORIG. OF CHANGE	DATE
01	Initial internal revision	SAMANTH	12/02/2025
02	Internal release version	SAMANTH	08/05/2025
03	Initial release version	SAMANTH	16/10/2025

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Page Title: Revision History

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