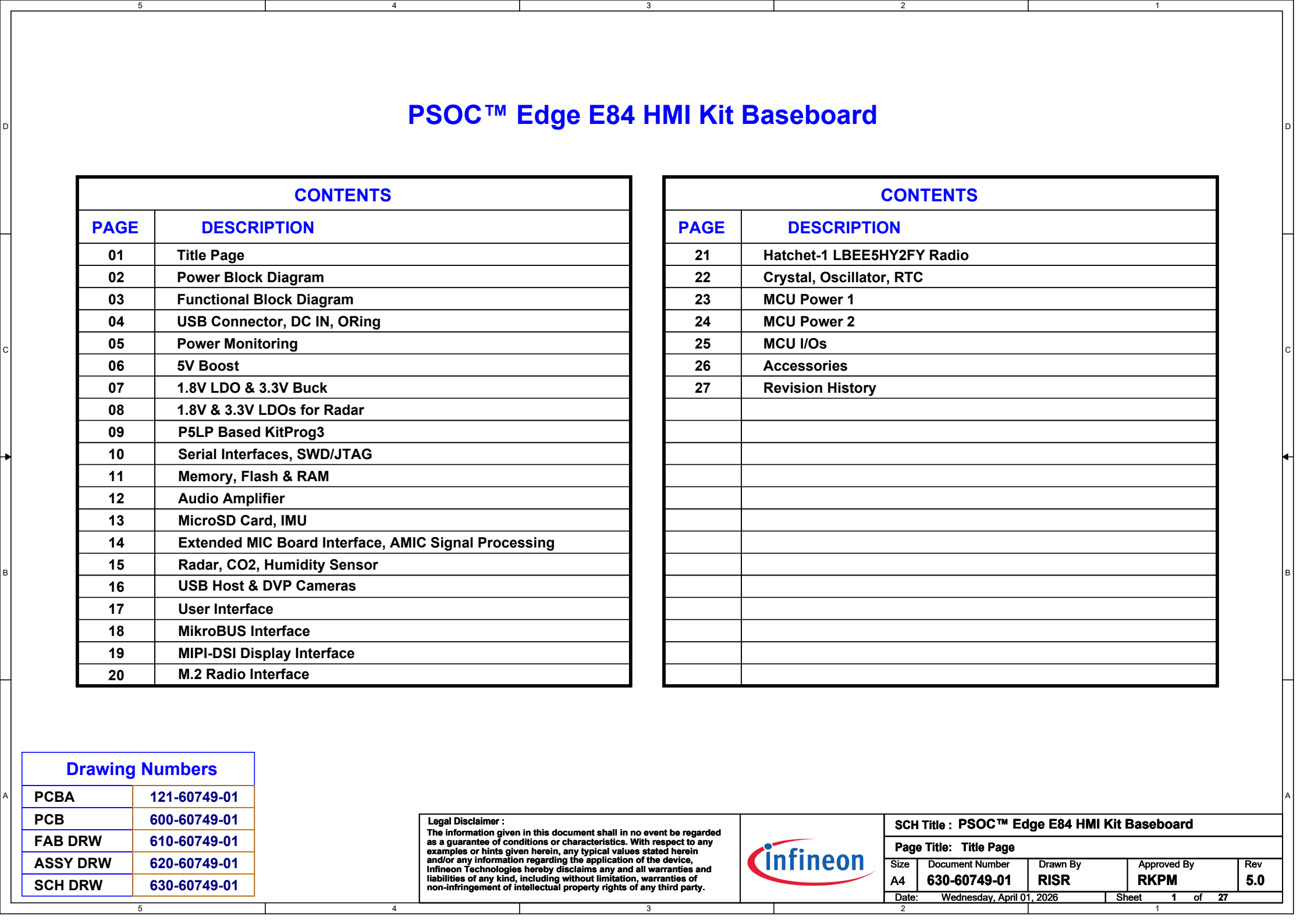
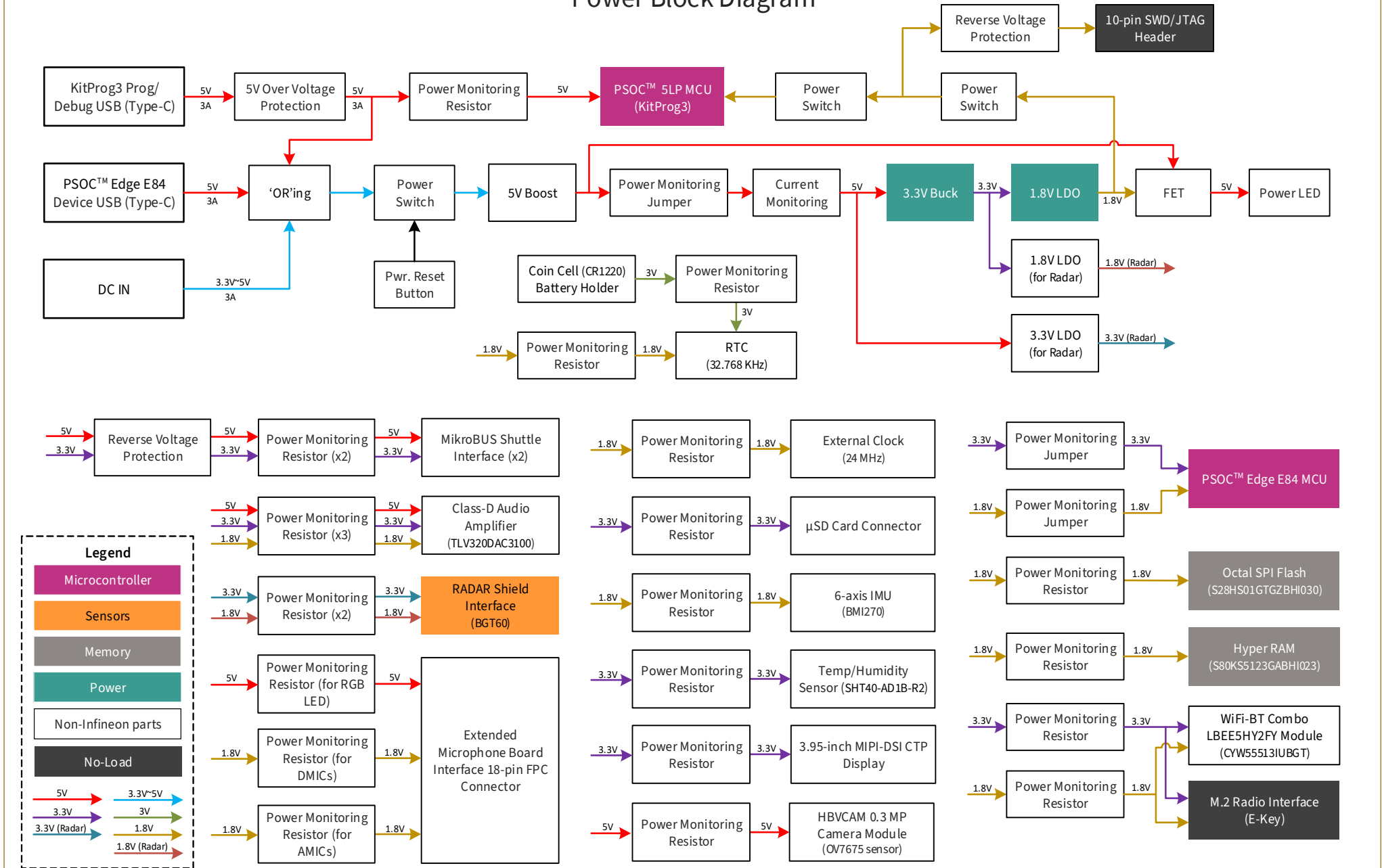


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Power Block Diagram



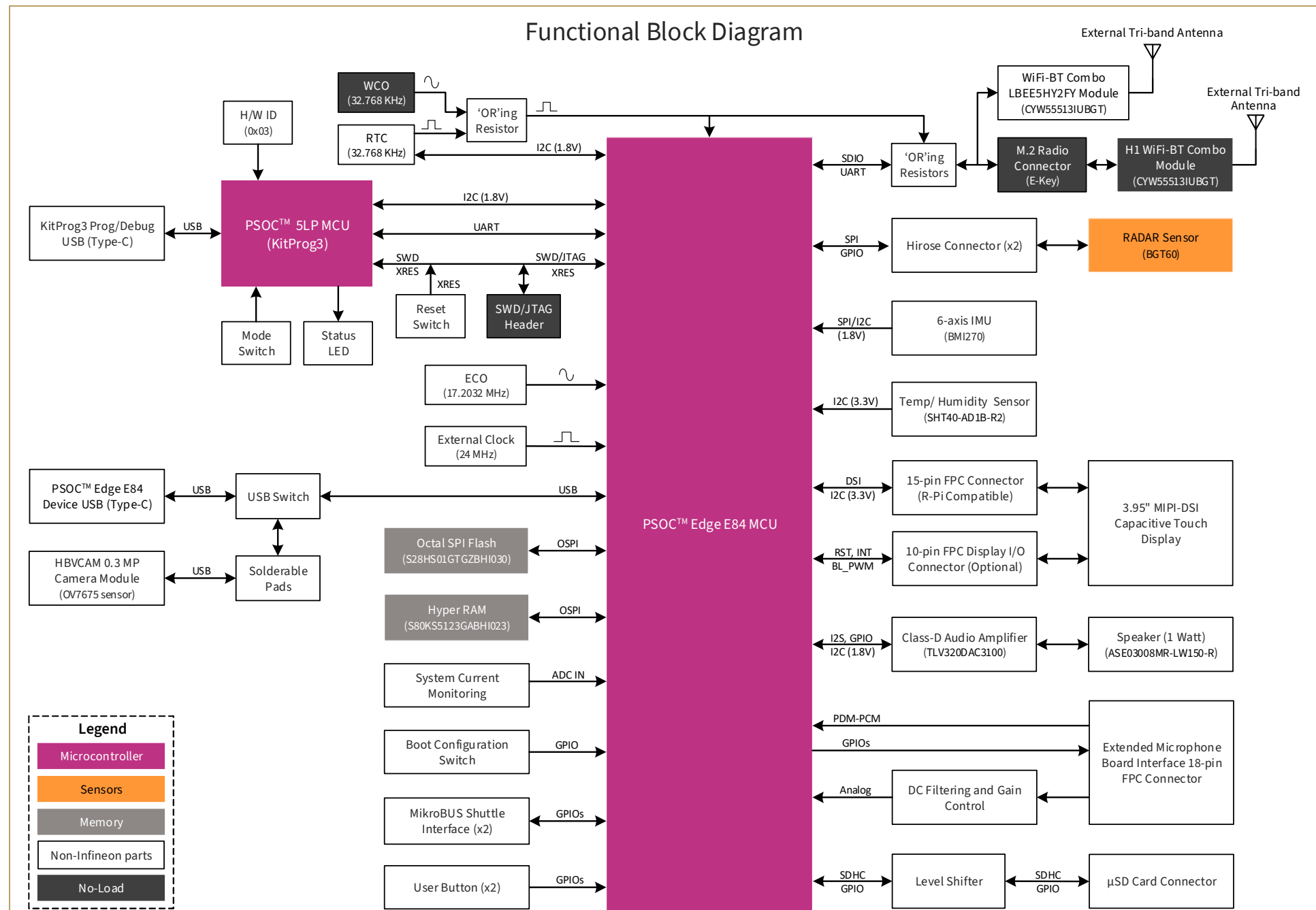
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: Power Block Diagram

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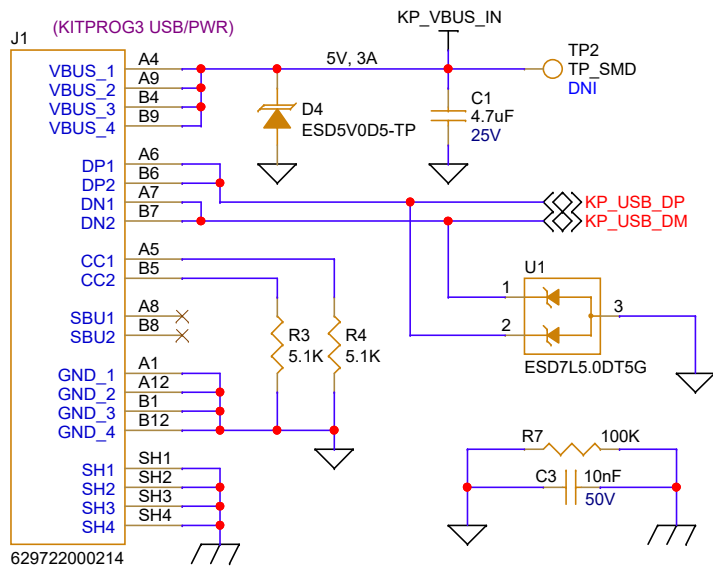


SCH Title : PSoC™ Edge E84 HMI Kit Baseboard

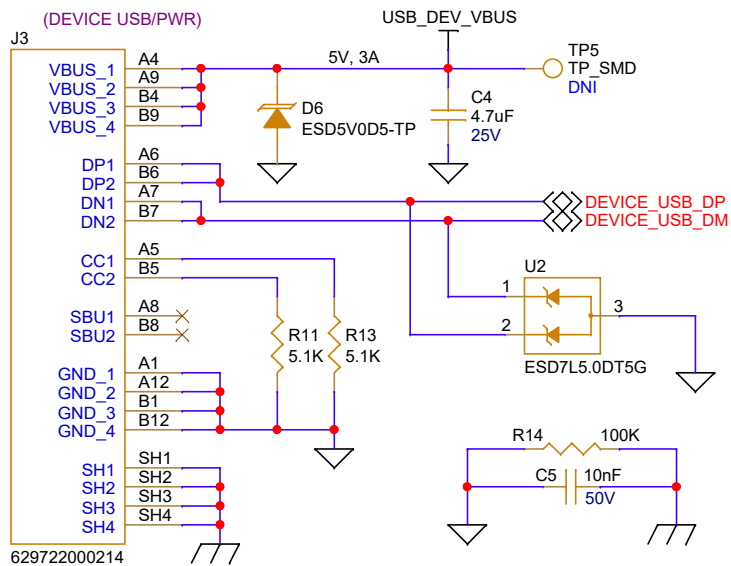
Page Title: Functional Block Diagram

Size	Document Number	Drawn By	Approved By	Rev
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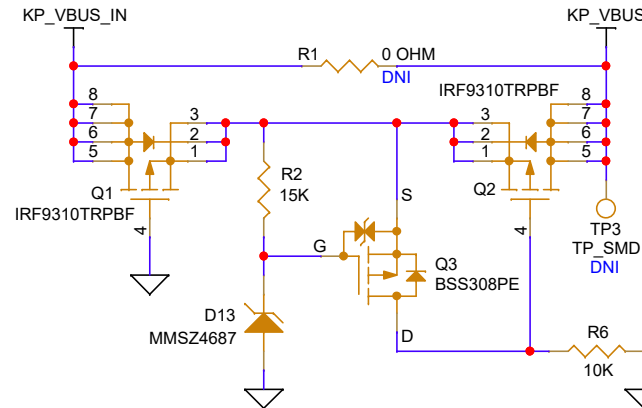
KitProg3 USB Type-C Prog/Debug Interface



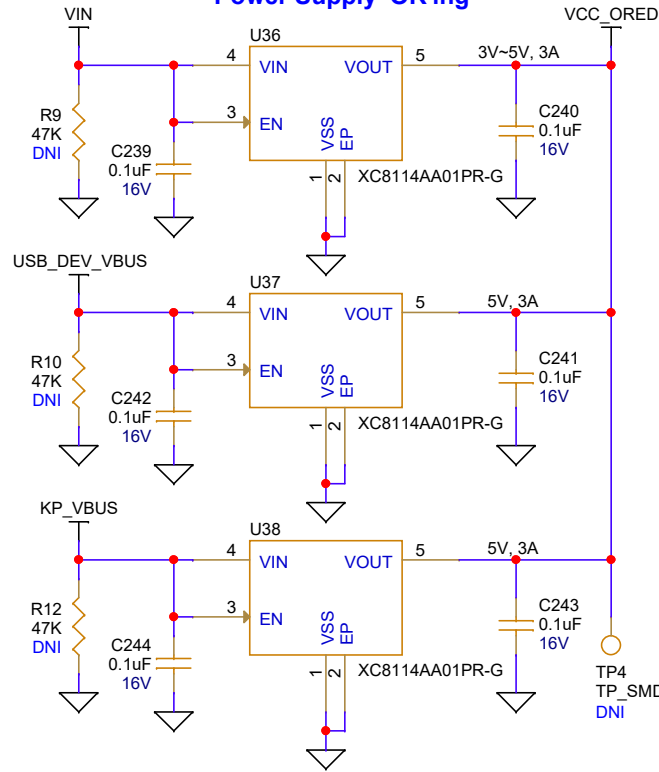
PSOC™ Edge E84 USB Type-C Device



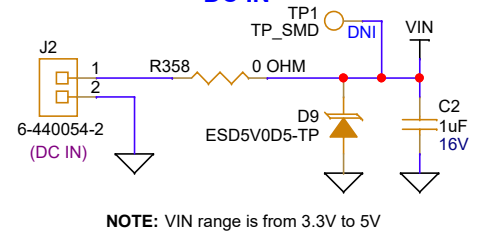
5V Overvoltage Protection for KP3 USB



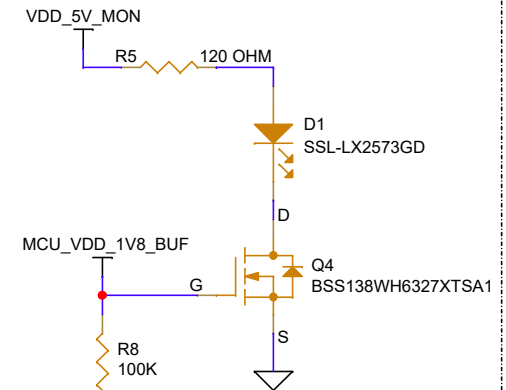
Power Supply 'OR'ing



DC IN



Power LED



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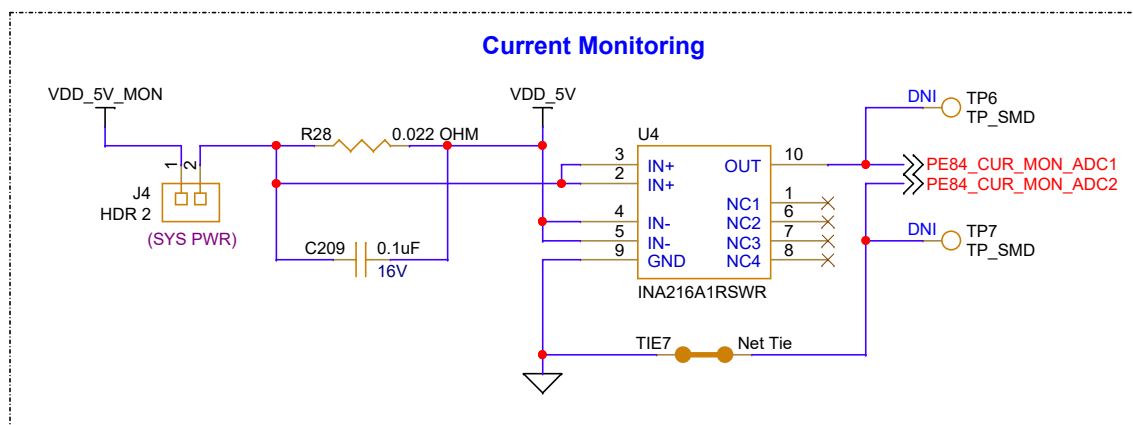
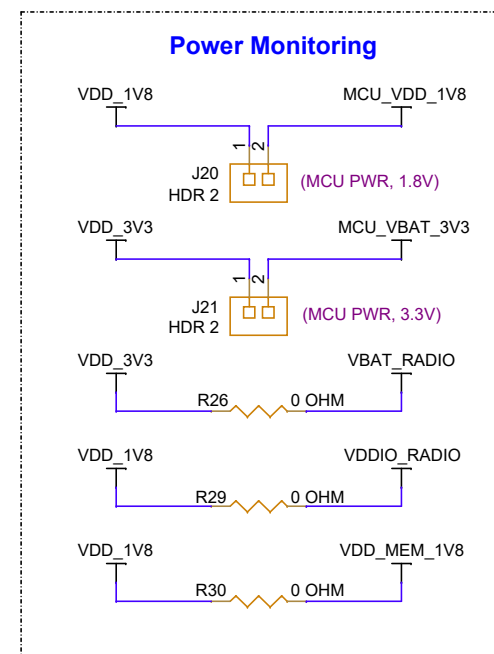
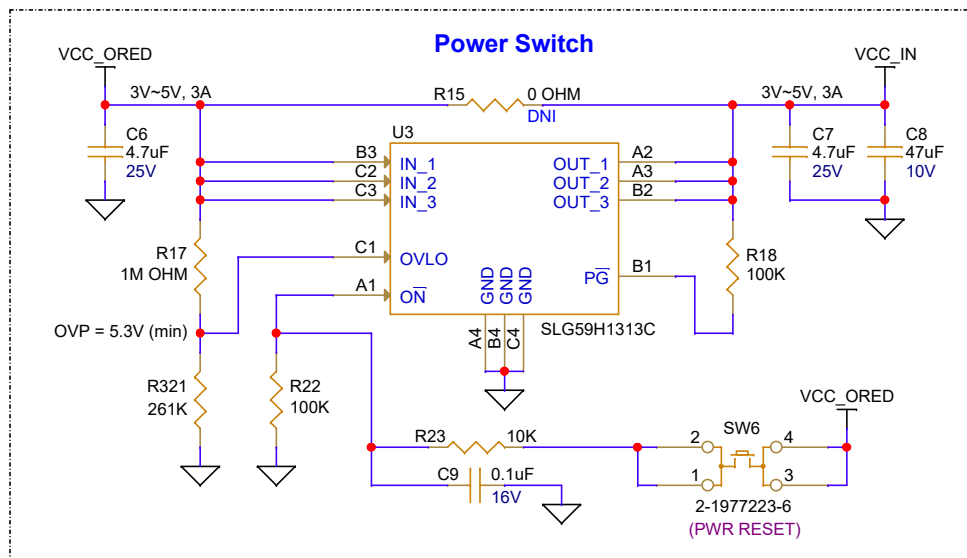
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title : USB Connector, DC IN, ORing, Power LED

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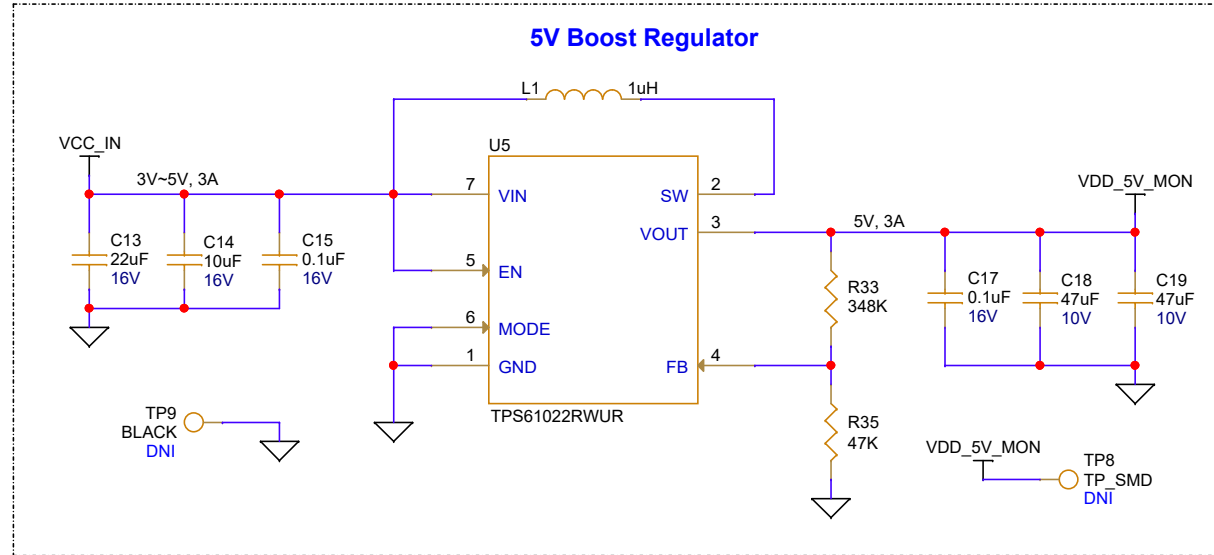
SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: Power Monitoring

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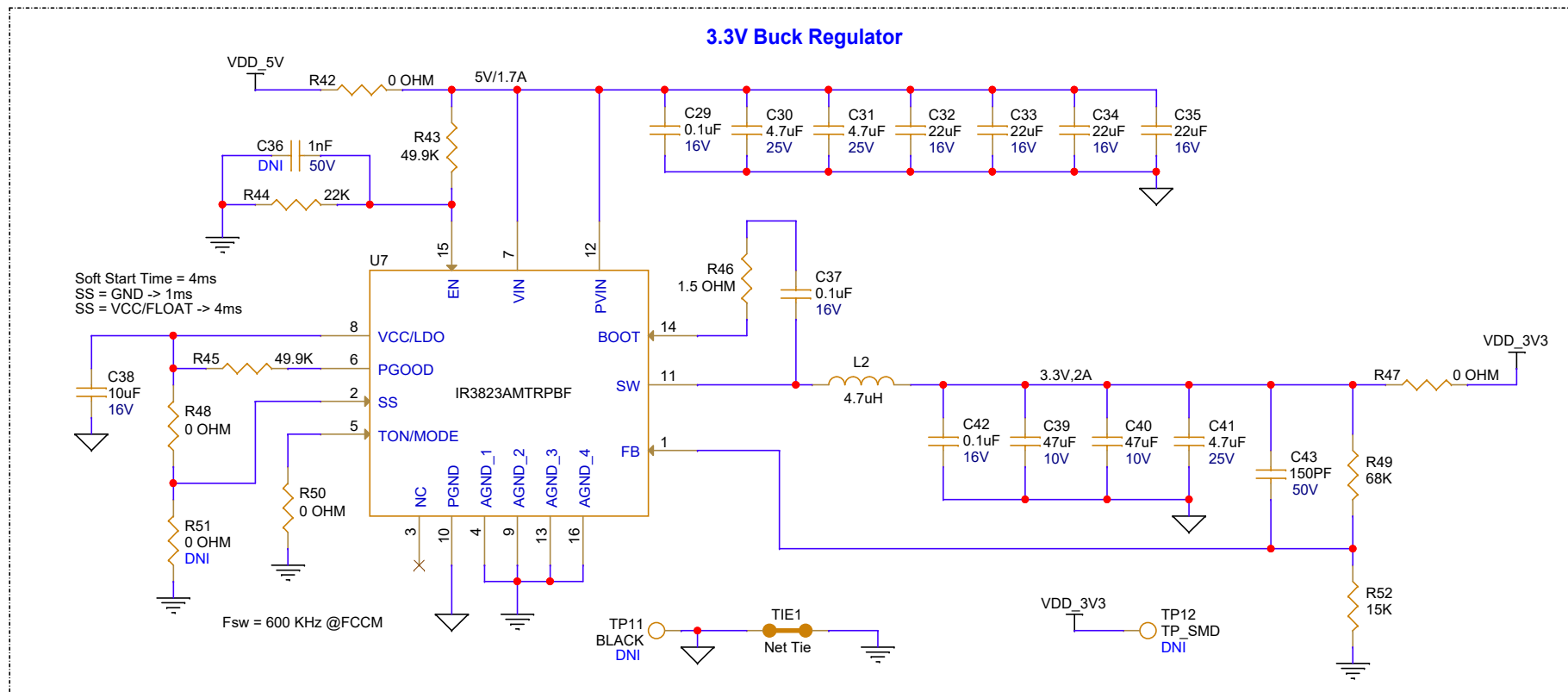
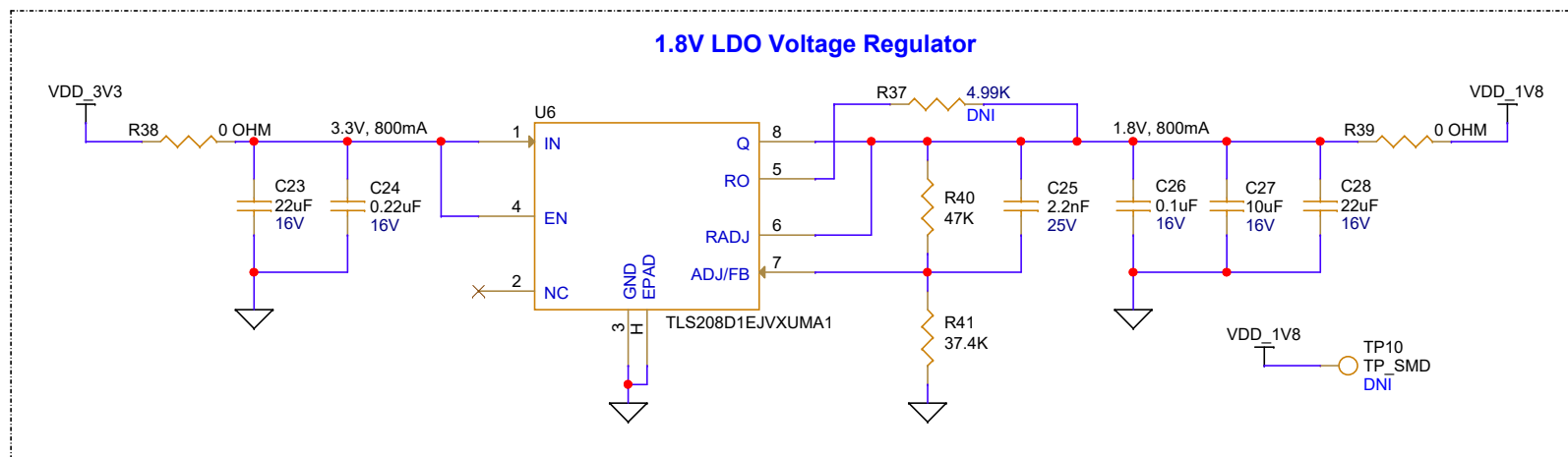


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: 5V Boost

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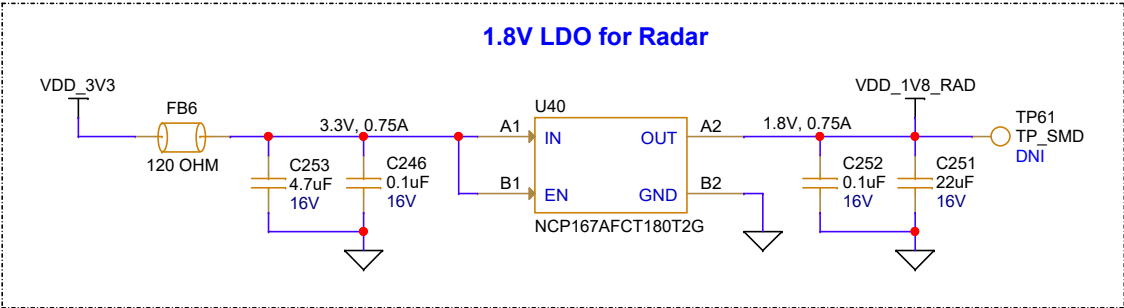
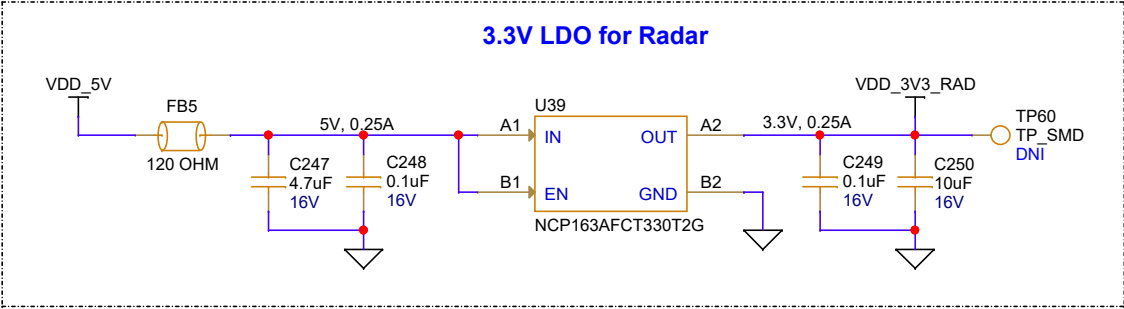
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title : 1.8V LDO & 3.3V Buck

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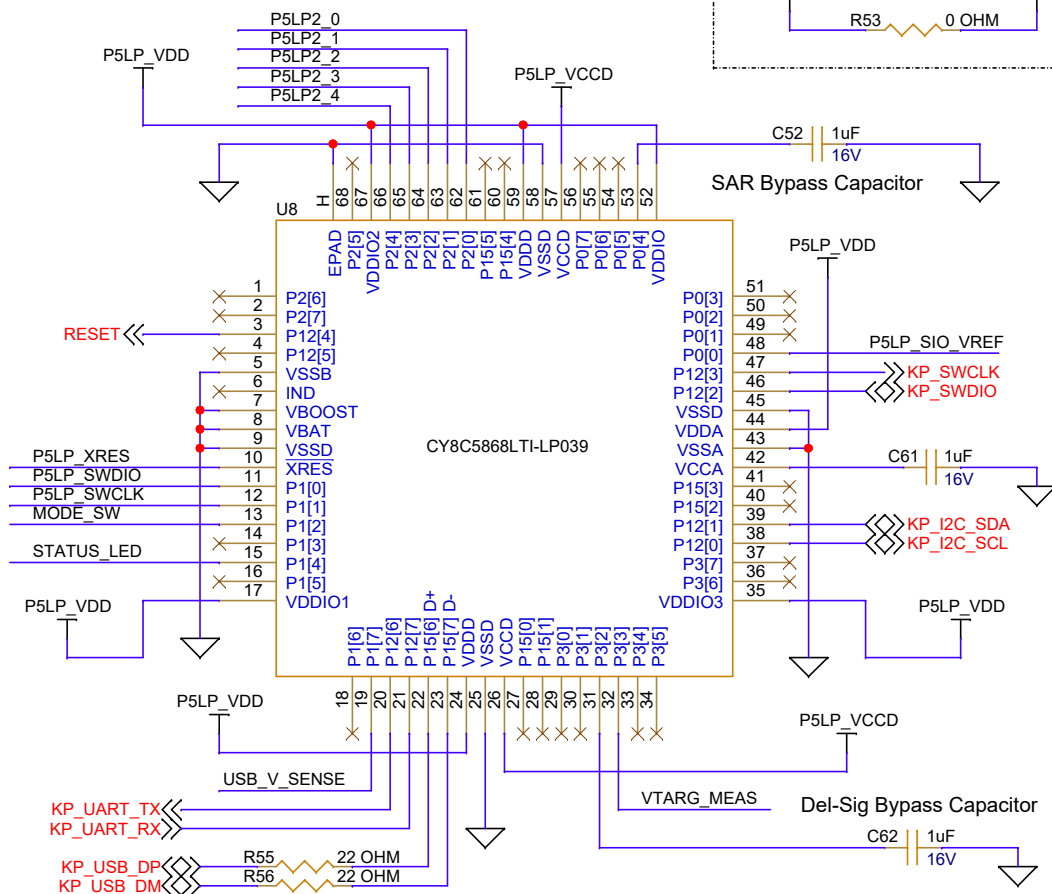


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: 1.8V & 3.3V LDOs for Radar

Size	Document Number	Drawn By	Approved By	Rev
A4	630-60749-01	RISR	RKPM	5.0
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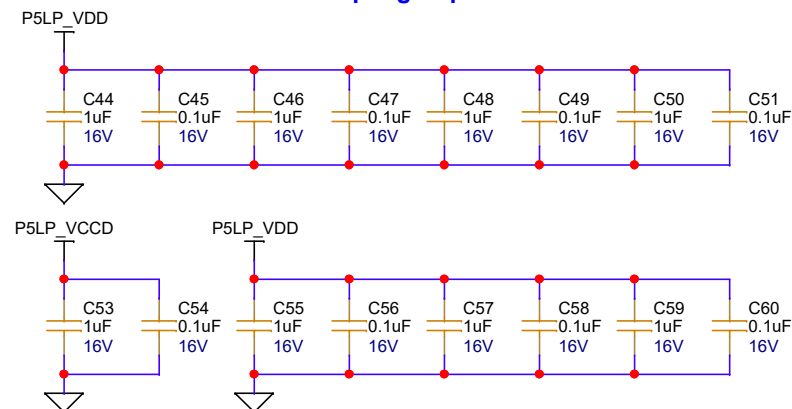
PSOC™ 5LP based KitProg3



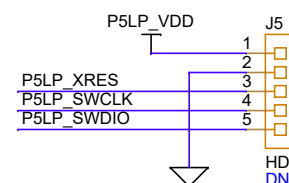
PSOC™ 5LP Power



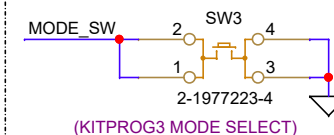
Decoupling Capacitors



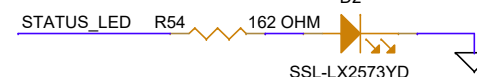
PSOC™ 5LP Programming Header



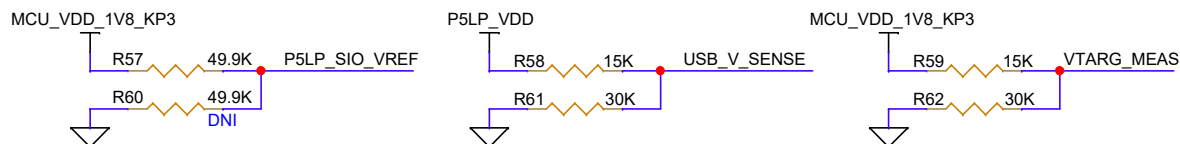
Mode Switch



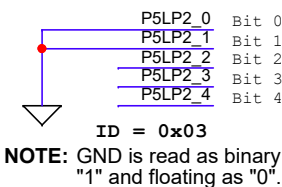
KitProg3 Status LED



Voltage Monitoring



KitProg3 H/W Revision



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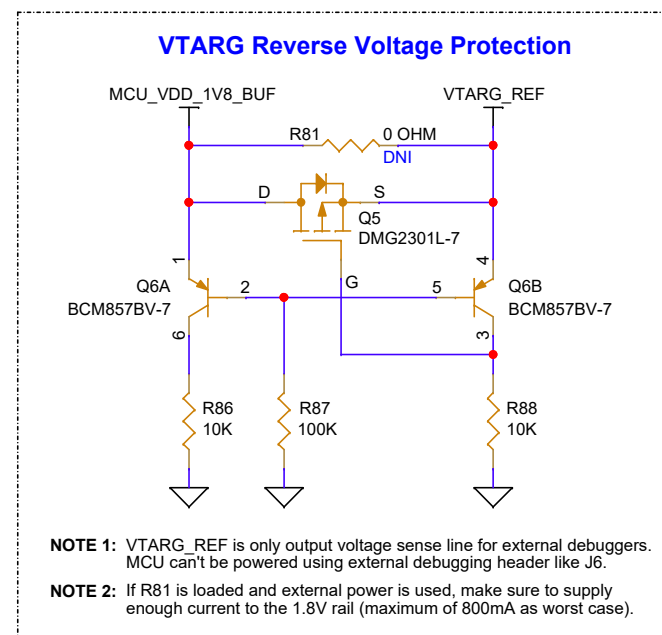
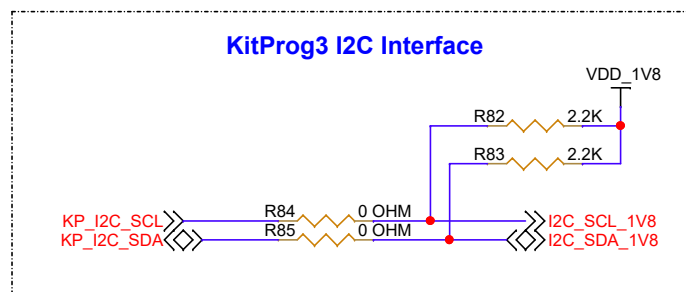
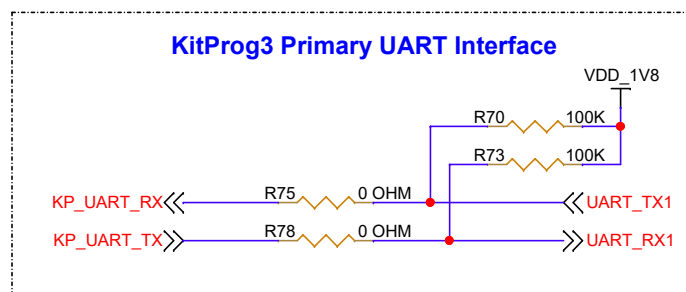
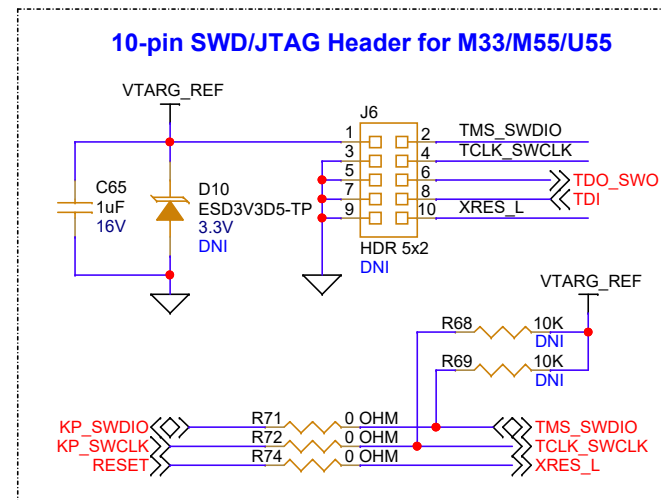
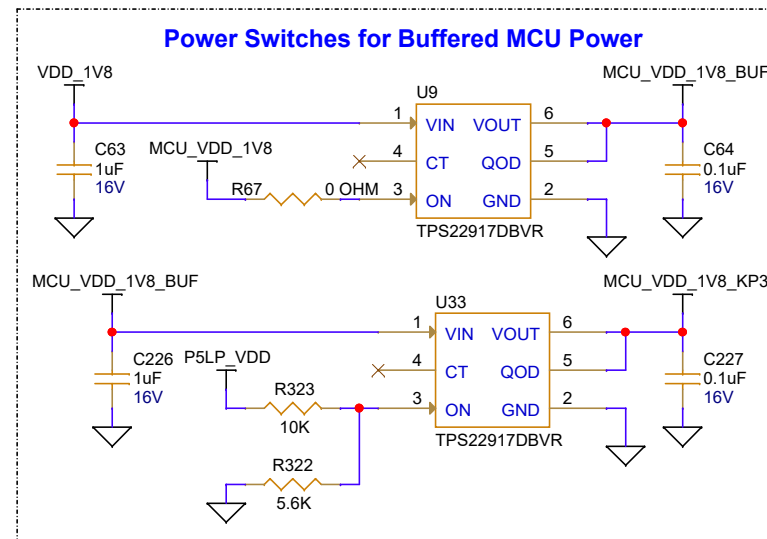
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: P5LP Based KitProg3

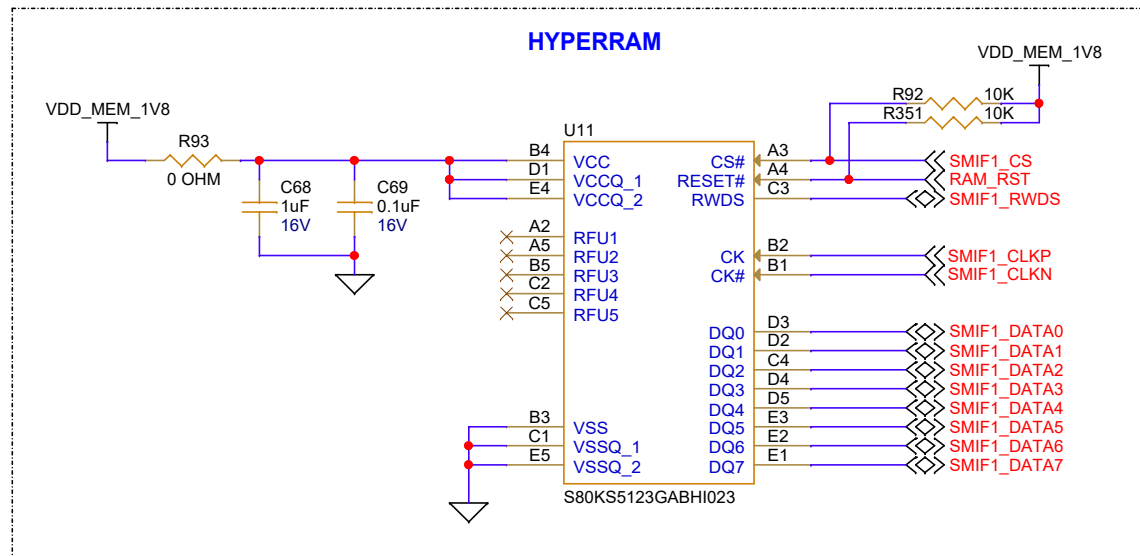
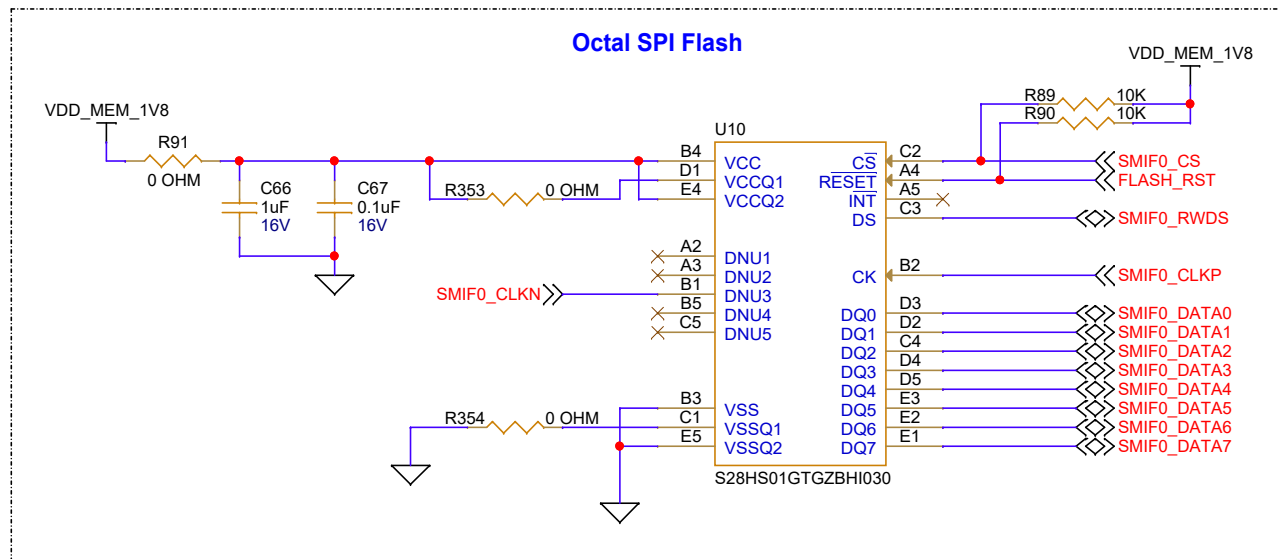
Size A4	Document Number 630-60749-01	Drawn By RISR	Approved By RKPM	Rev 5.0
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard				
Page Title : Serial Interfaces, SWD/JTAG				
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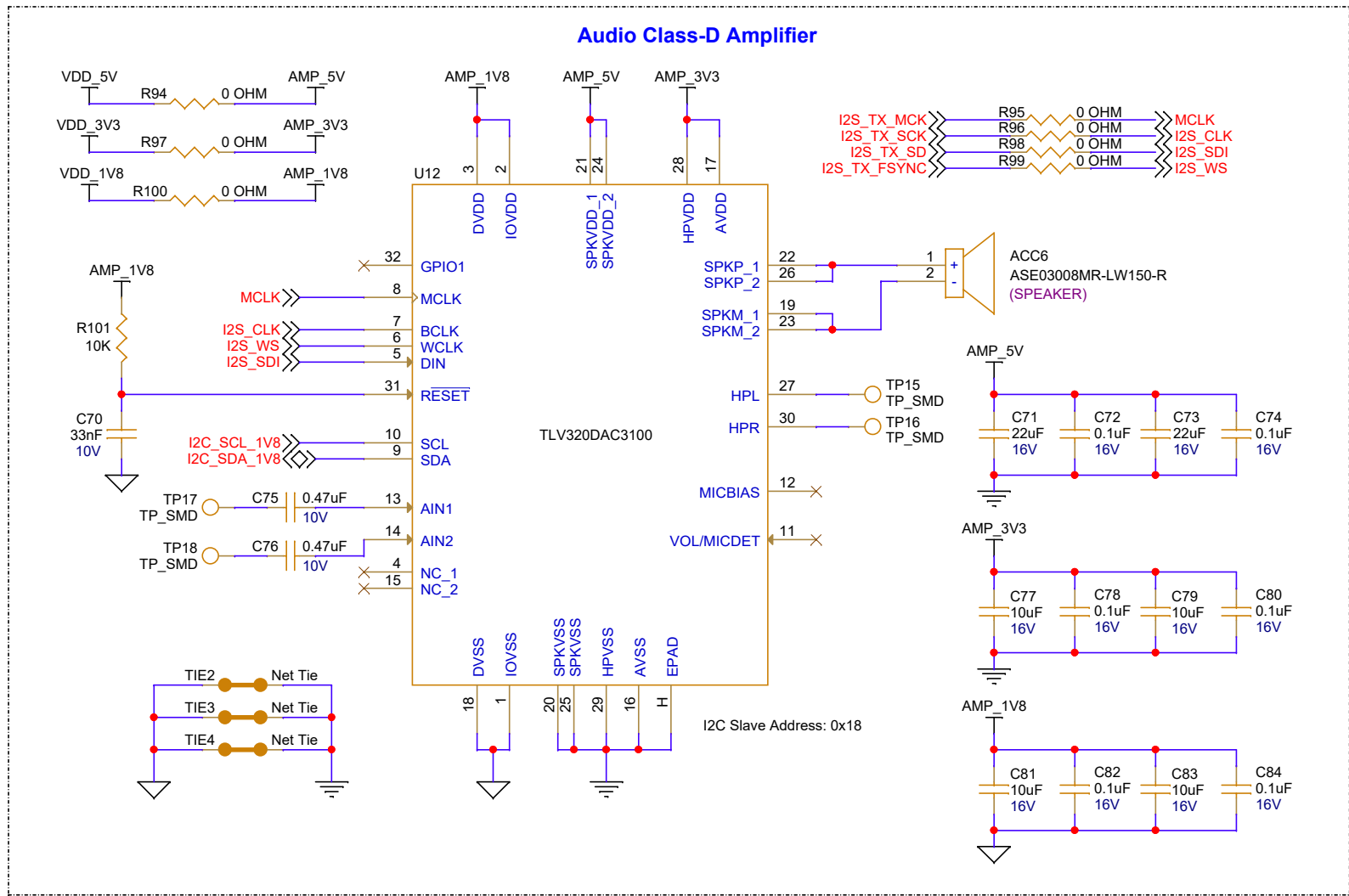


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: Memory, Flash & RAM

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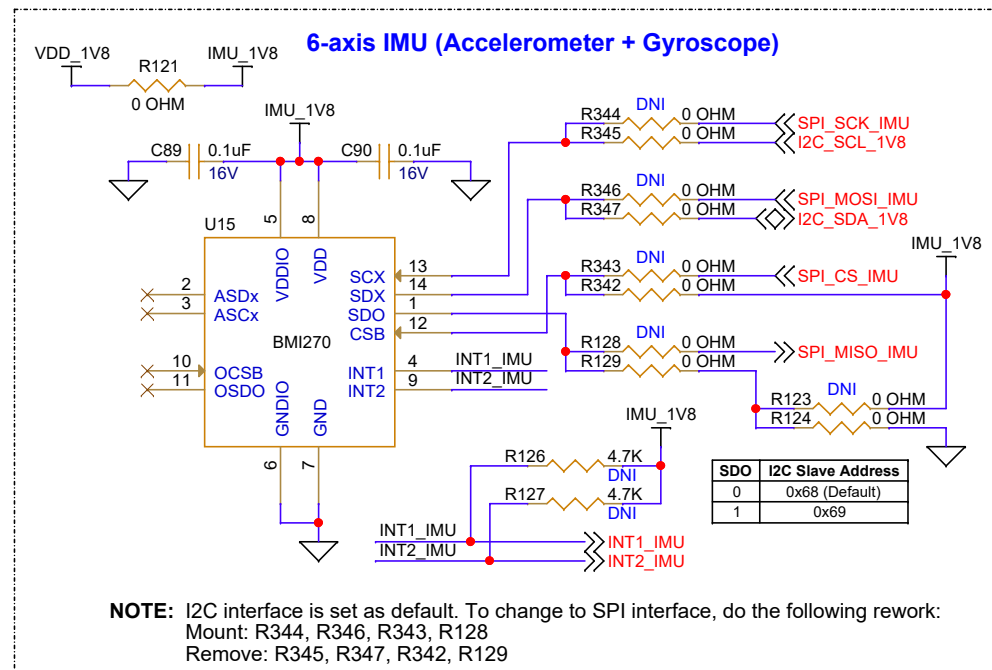
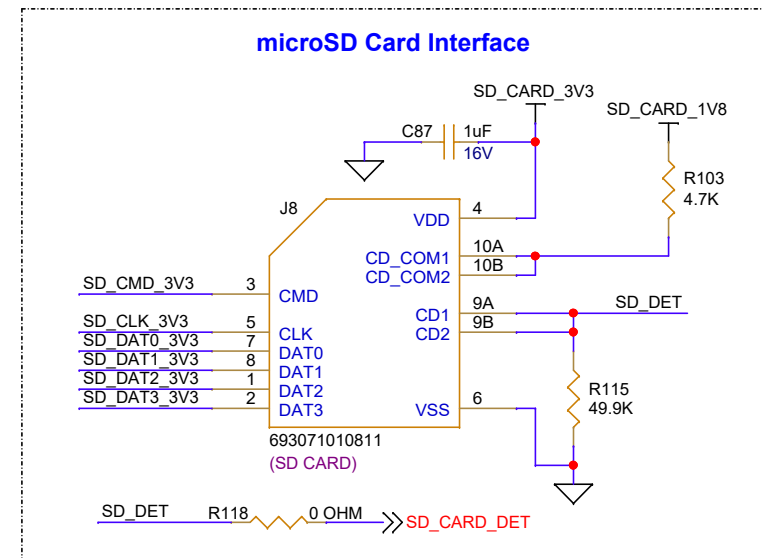
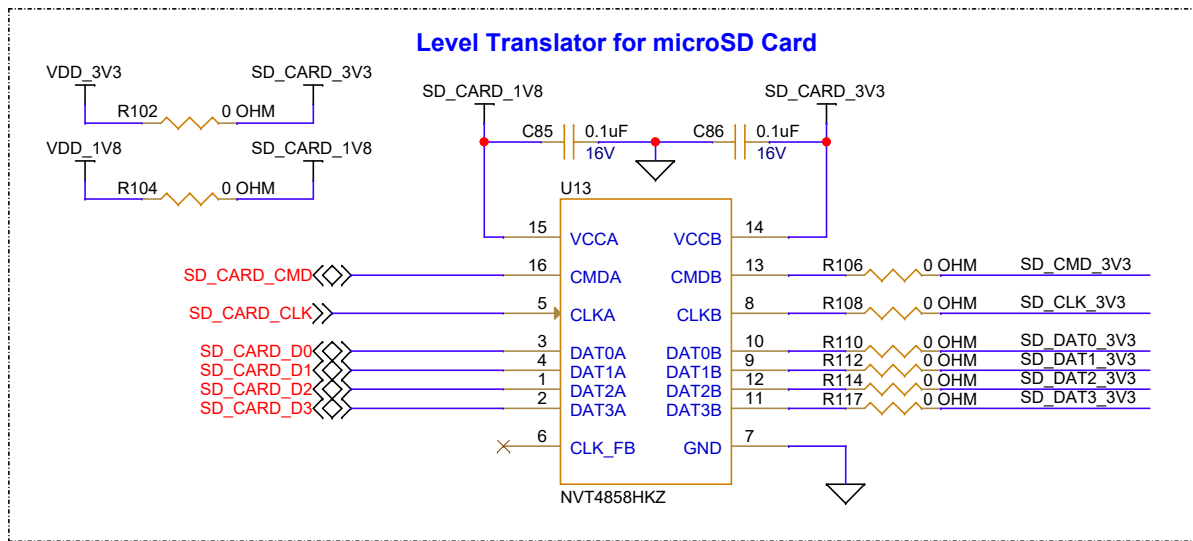
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: Audio Class-D Amplifier

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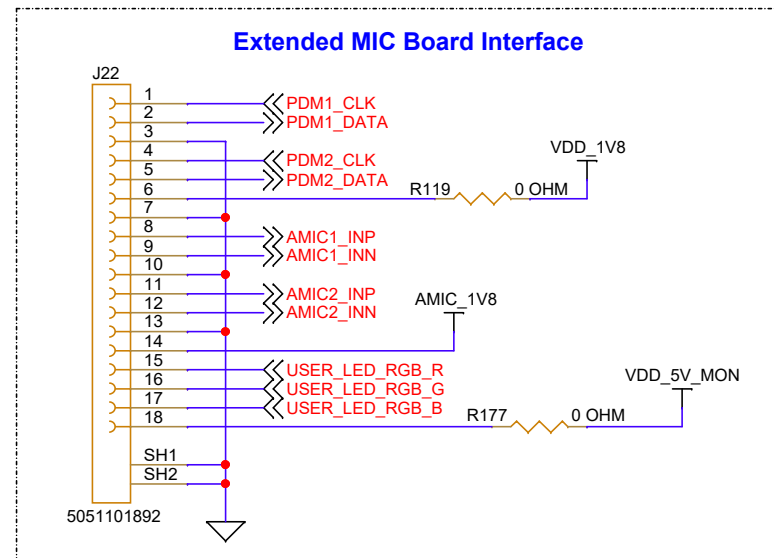
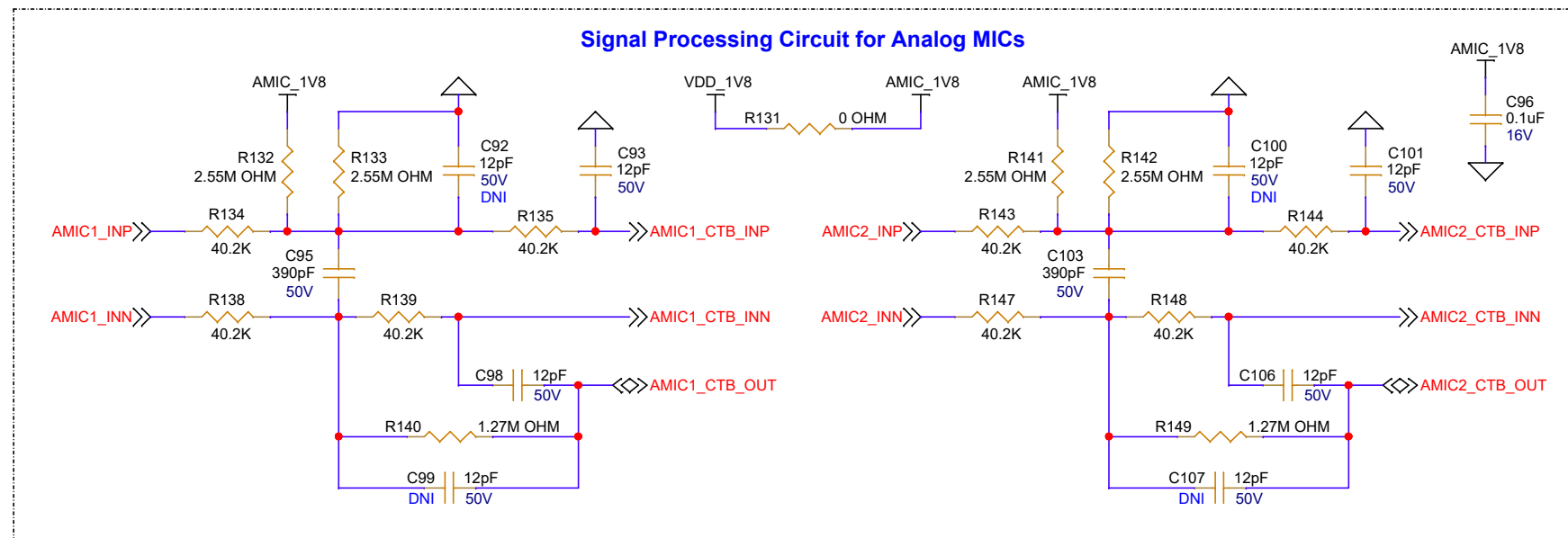
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Page Title: MicroSD Card, IMU

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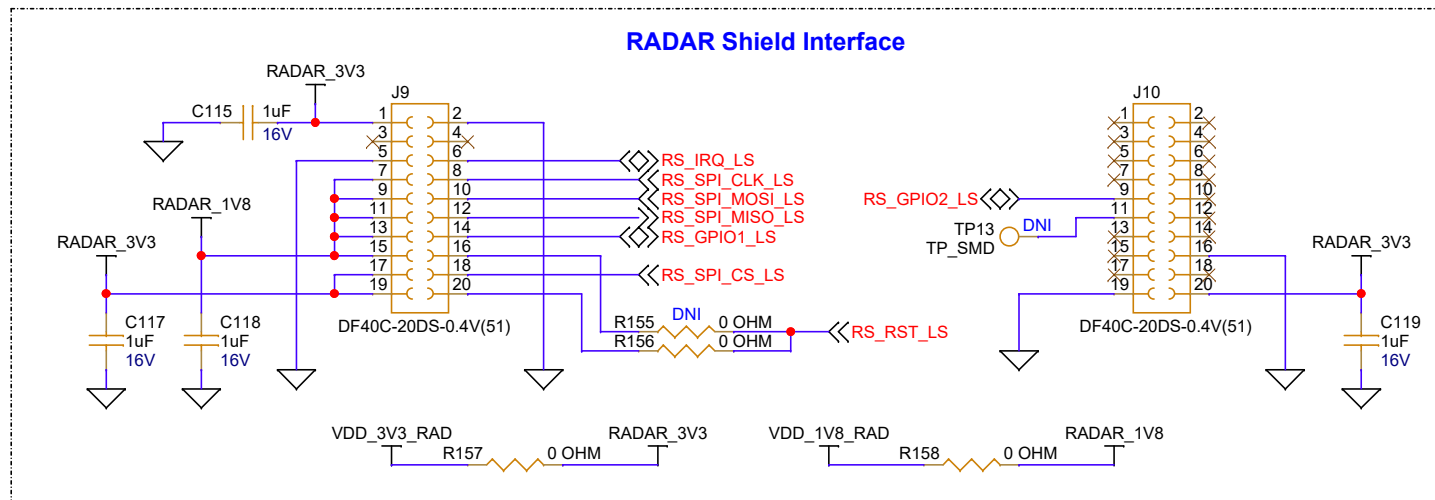
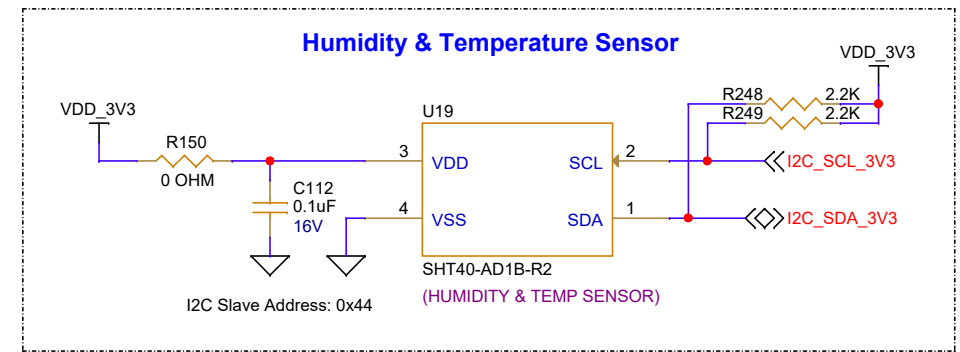
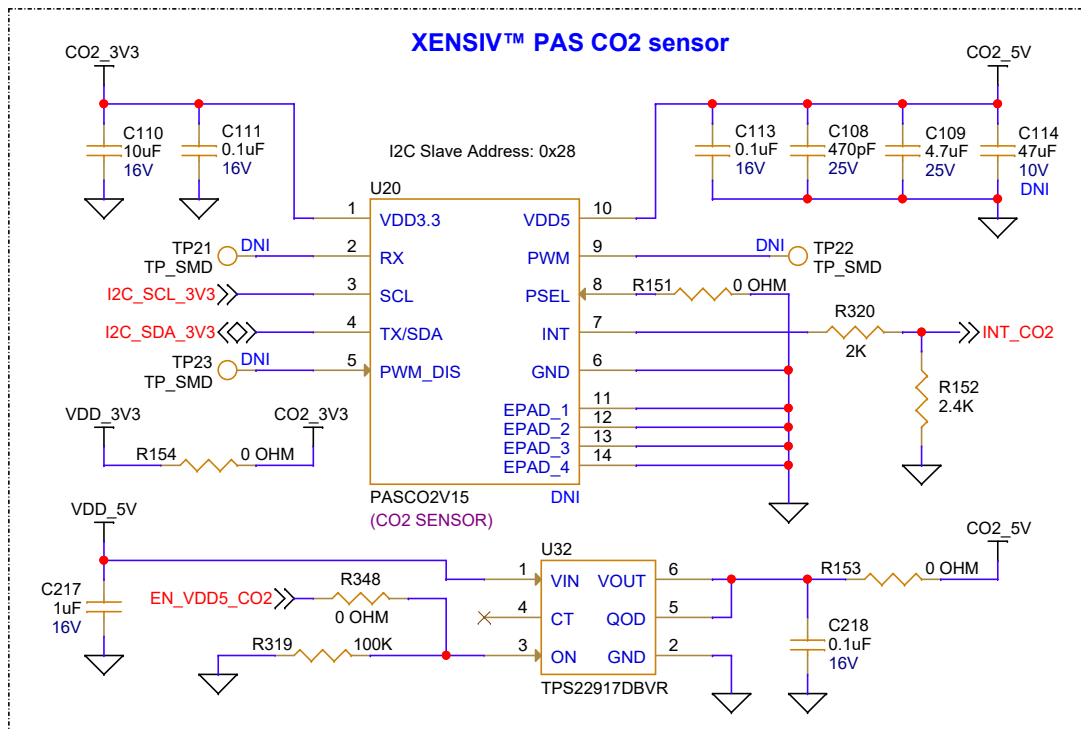
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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: MIC Board Conn, AMIC Signal Processing

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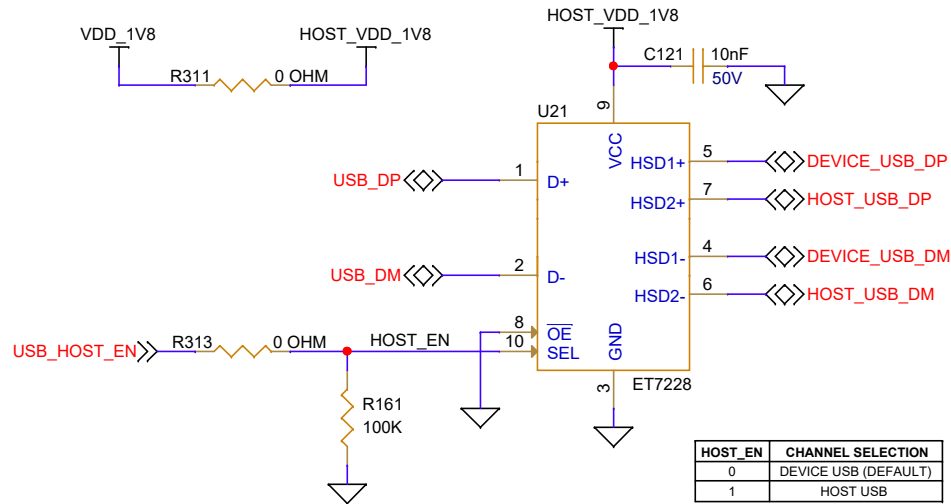


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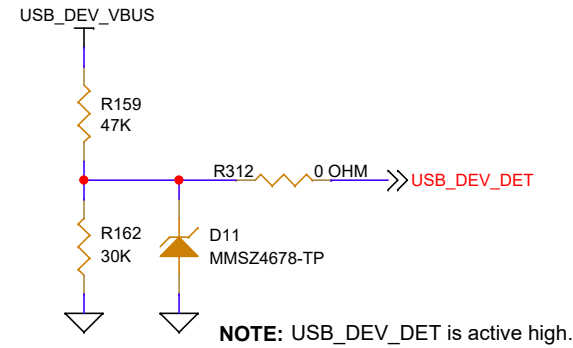
Page Title : Radar, CO2, Humidity Sensor

Size	Document Number	Drawn By	Approved By	Rev
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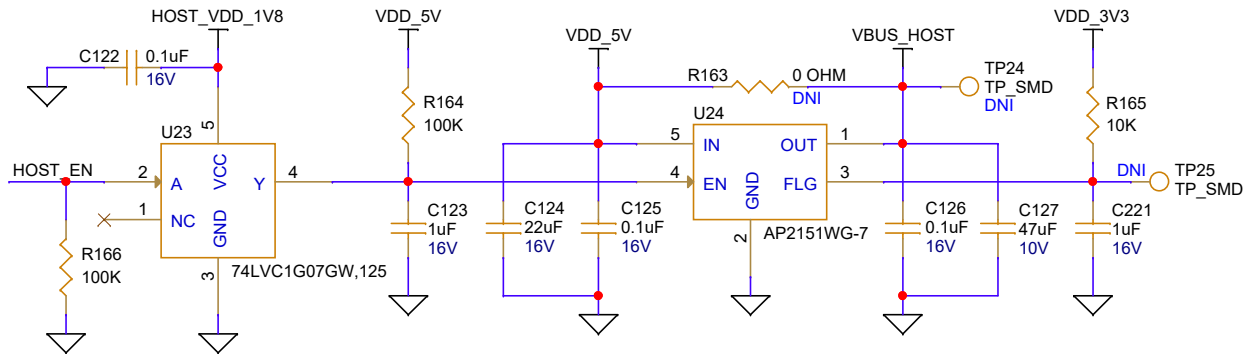
USB Multiplexer (Device and Host)



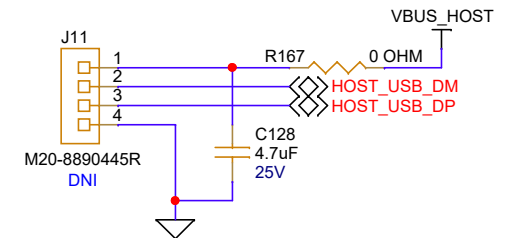
USB Device VBUS Detect



USB Host VBUS Enable



USB Camera Interface (HBVCAM OV7675)



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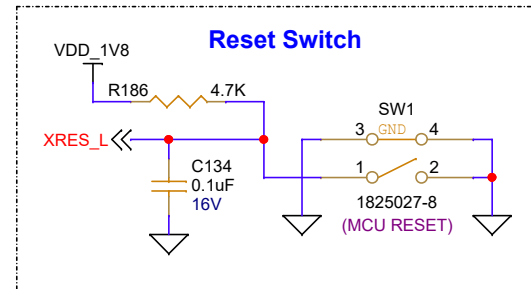
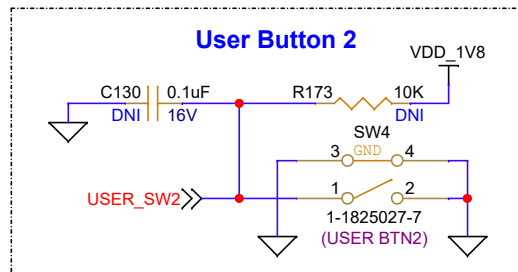
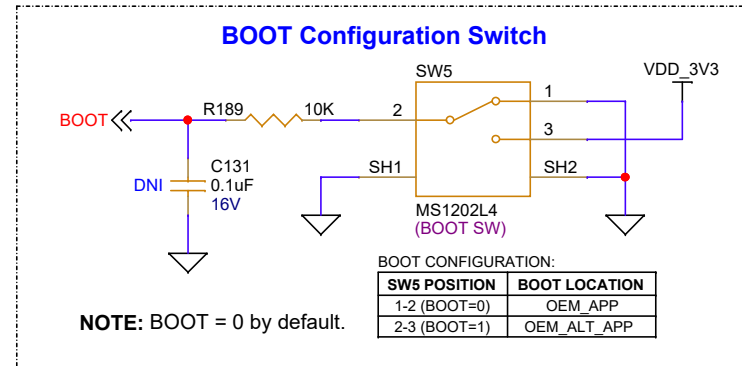
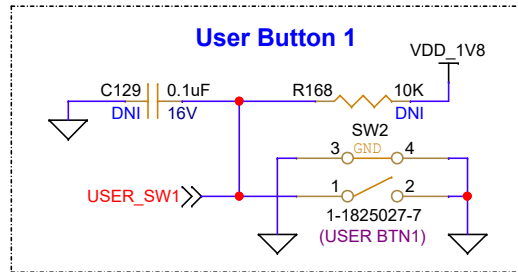


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: USB Host Camera

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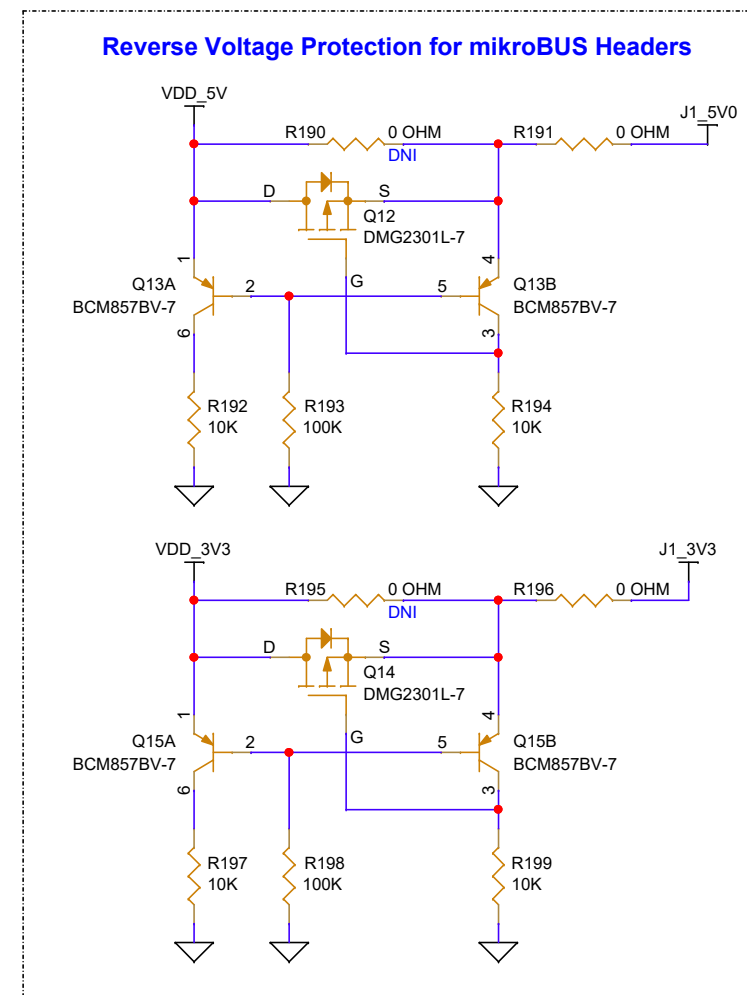
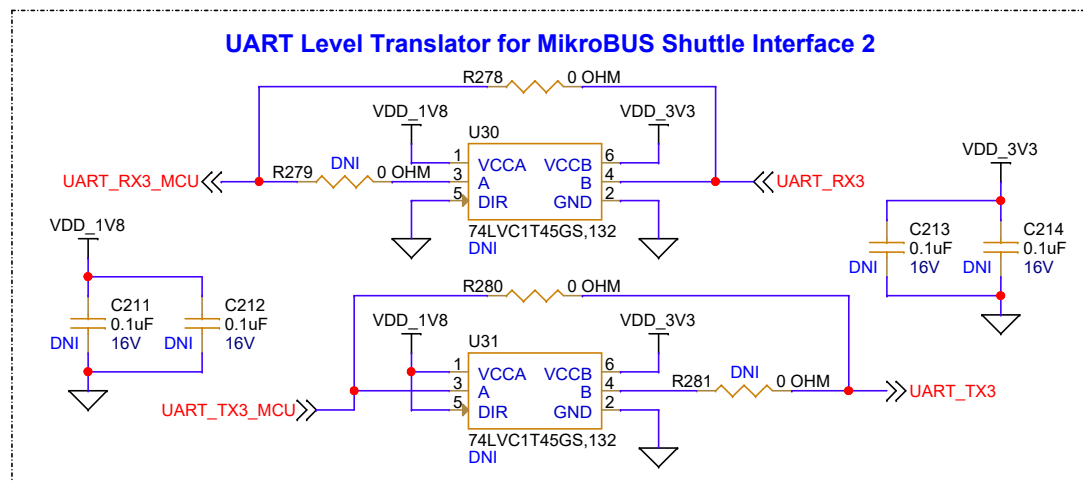
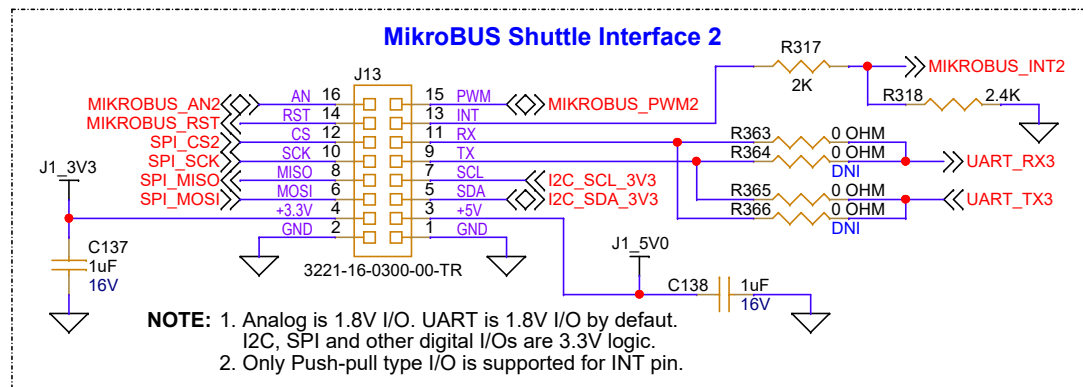
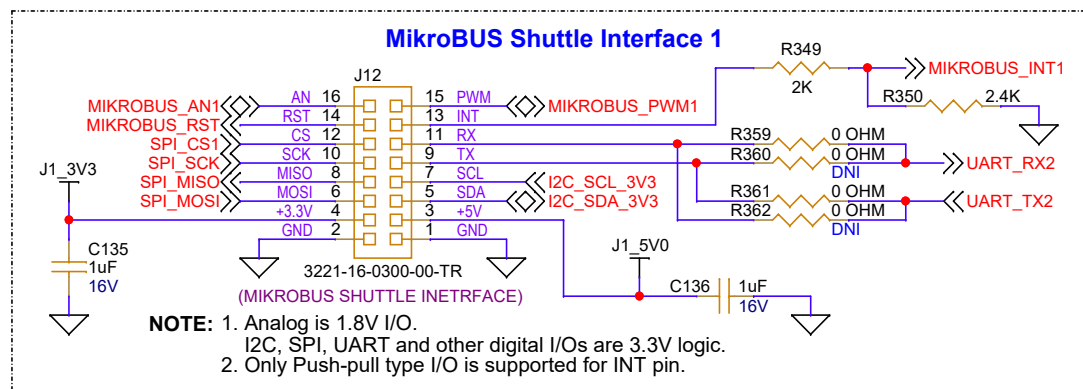
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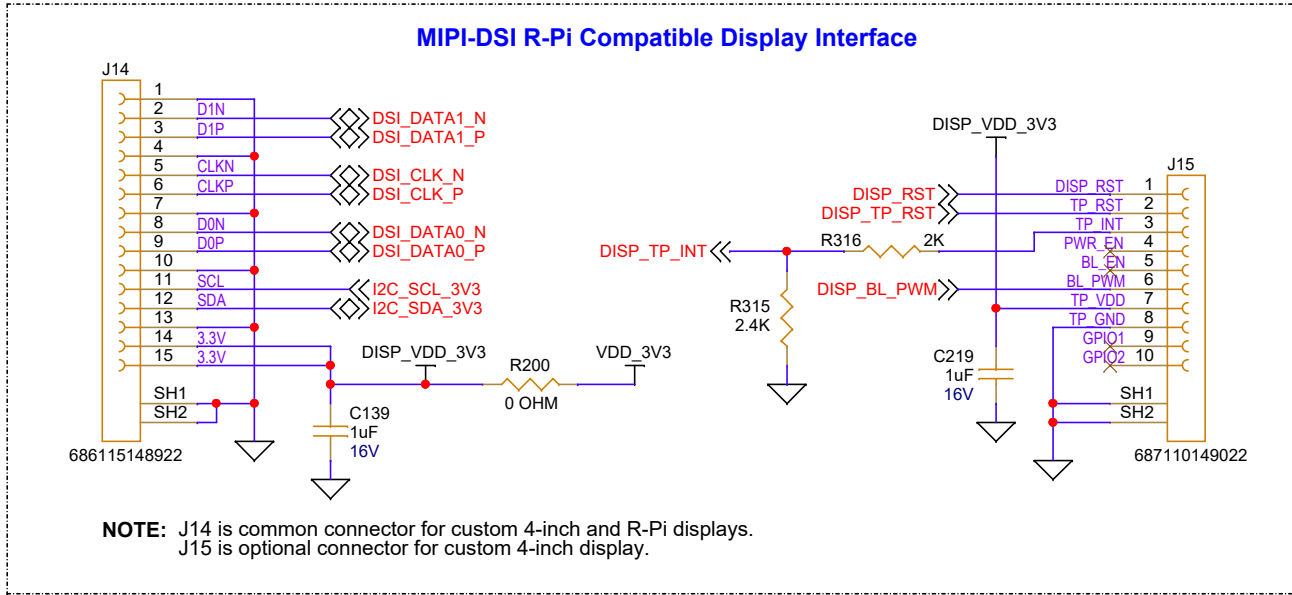
Page Title: User Interface

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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard				
Page Title : MikroBUS Interface				
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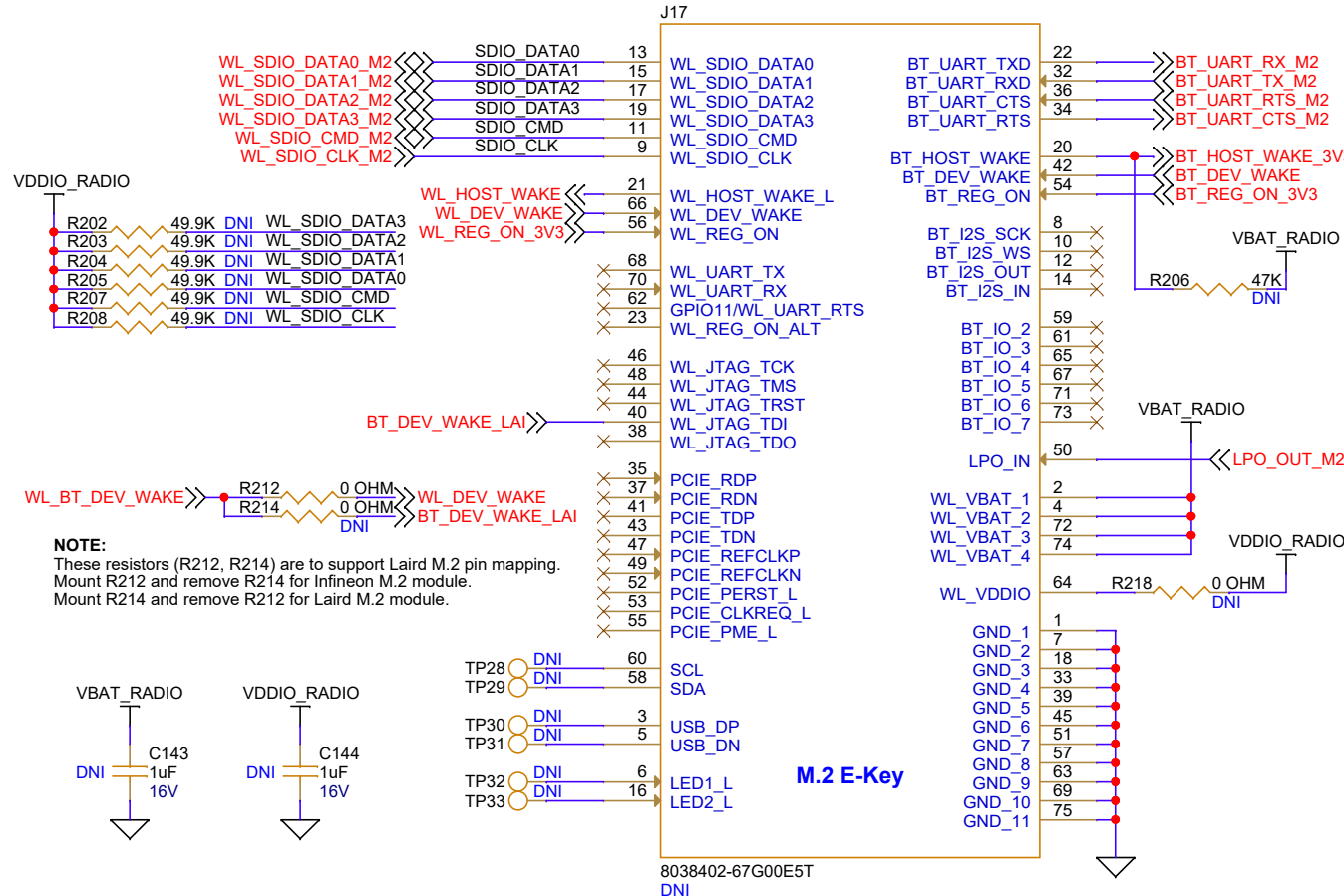


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

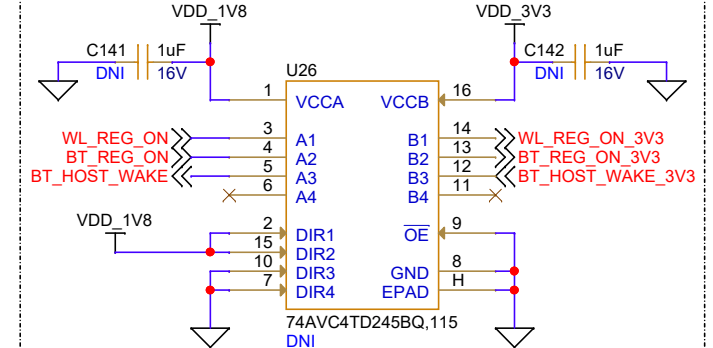
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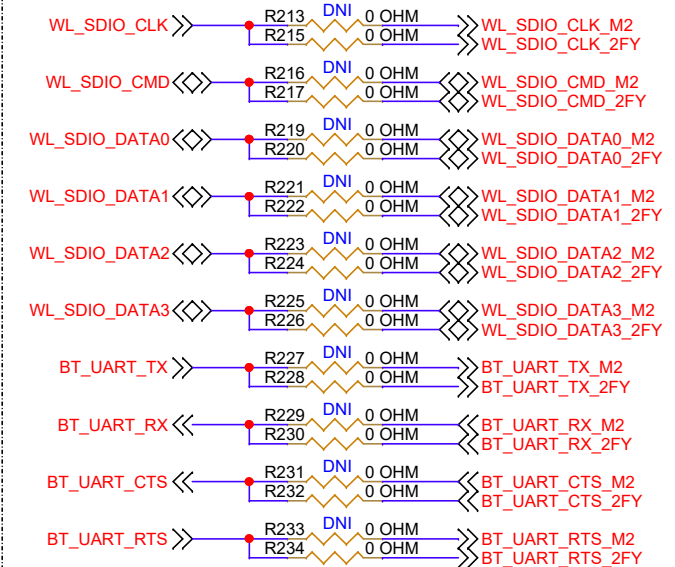
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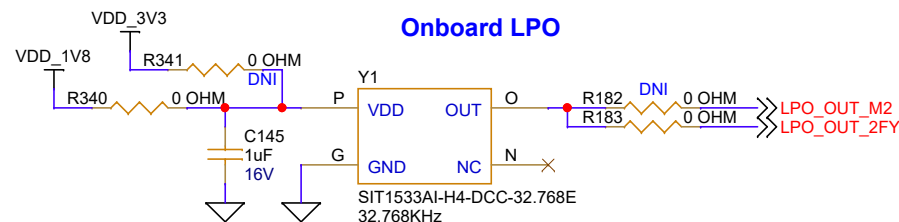
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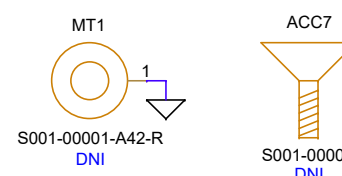
M.2 and 2FY Multiplexing



Onboard LPO



M.2 Stand-off and Screw



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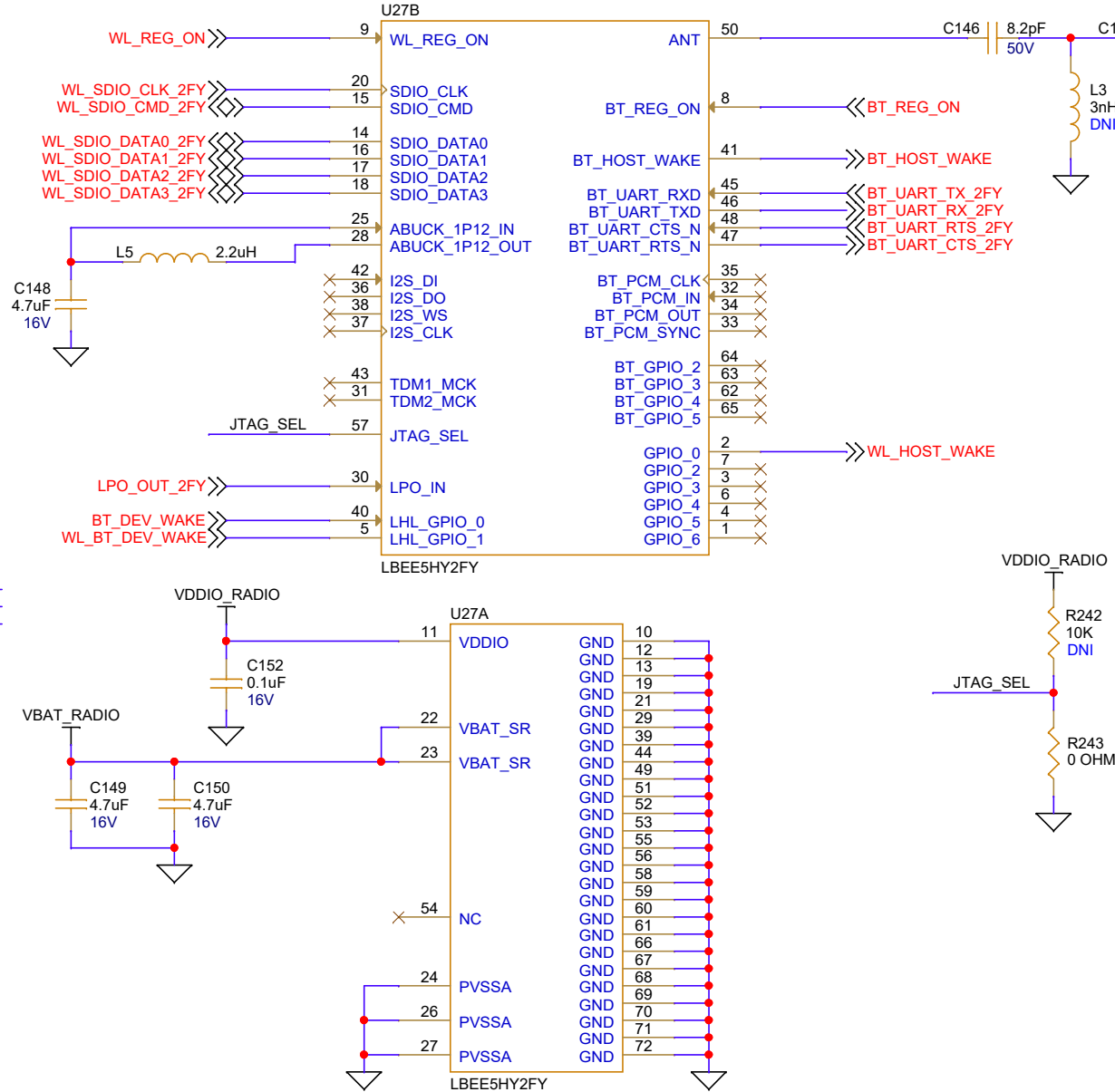
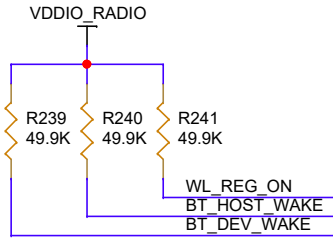
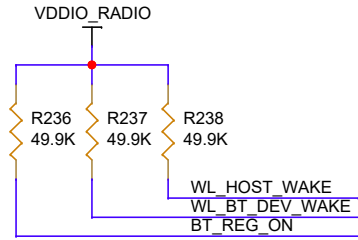


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Page Title : M.2 Radio Interface

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Onboard Hatchet-1 LBEE5HY2FY Radio



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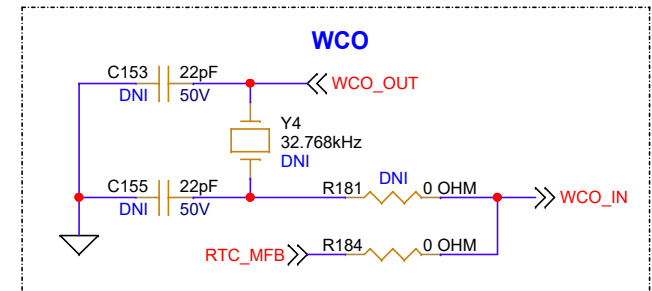
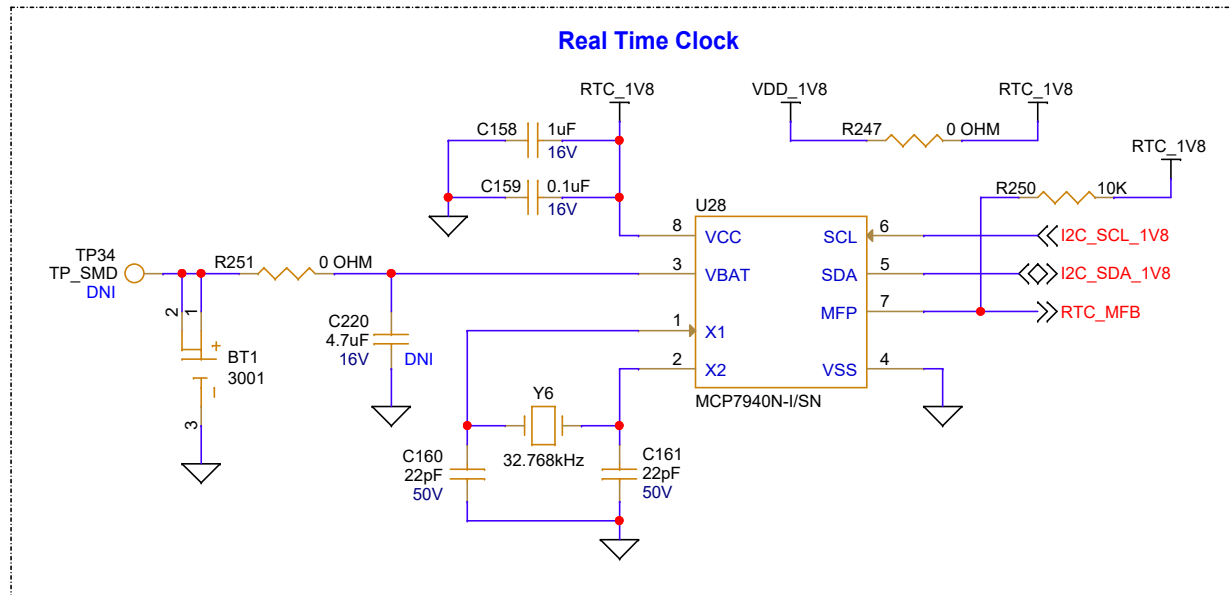
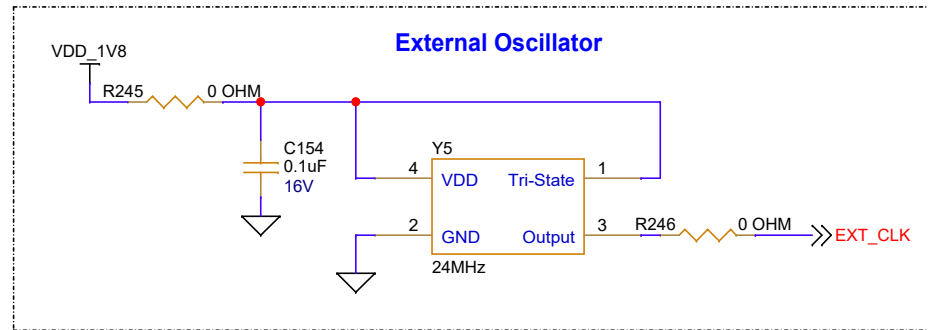
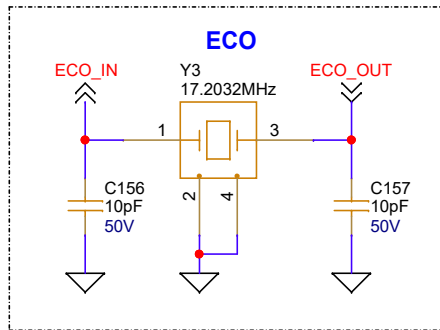
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Page Title: Hatchet-1 LBEE5HY2FY Radio

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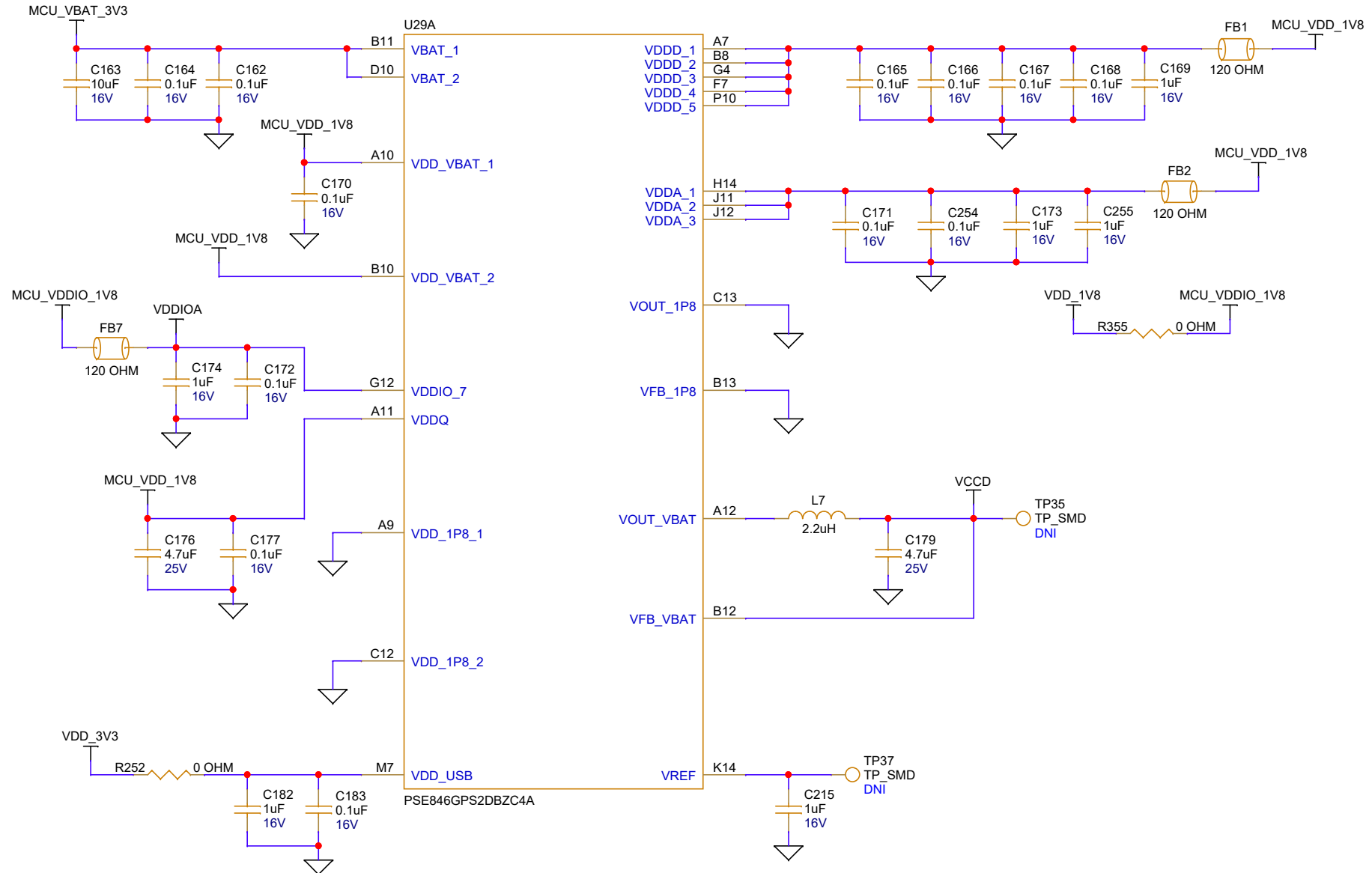


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SCH Title : PSOC™ Edge E84 HMI Kit Baseboard				
Page Title : Crystal, Oscillator, RTC				
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PSOC™ Edge E84 Power 1



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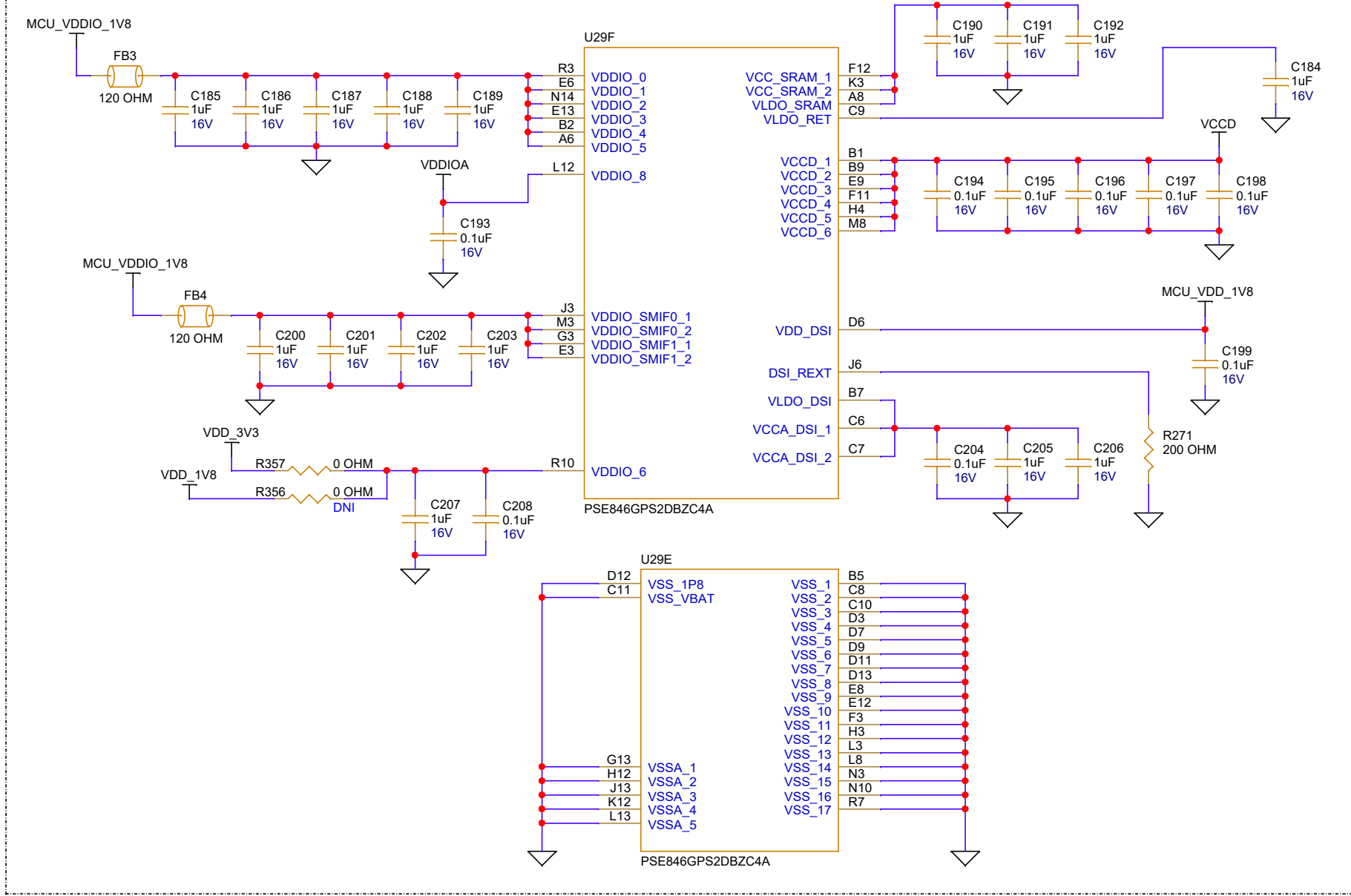


SCH Title : PSOC™ Edge E84 HMI Kit Baseboard

Page Title: MCU Power 1

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PSOC™ Edge E84 Power 2



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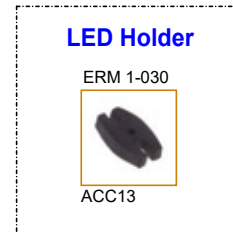
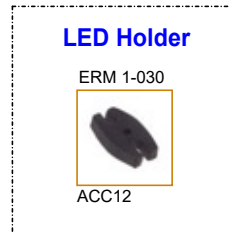
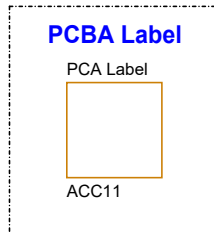
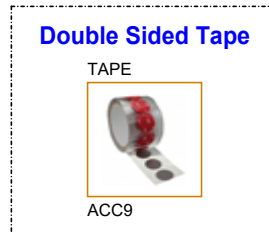
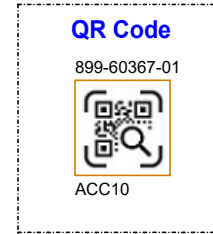
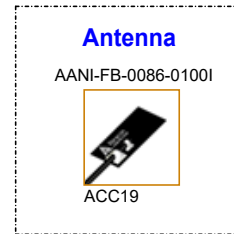
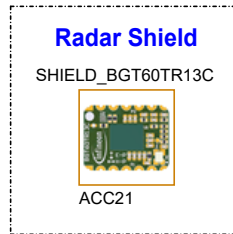
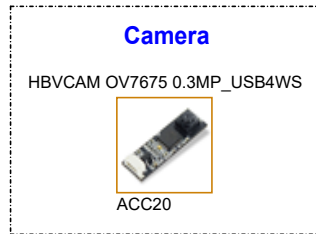
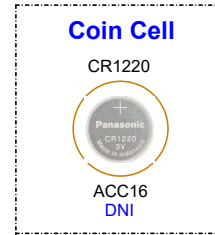
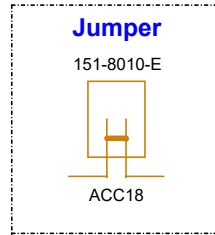
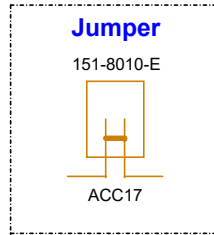
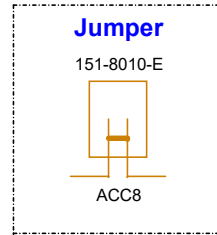
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Page Title: MCU Power 2

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Accessories



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REVISION HISTORY			
REV	DESCRIPTION OF CHANGE	ORIG. OF CHANGE	DATE
1.0	Initial Release	RISR	17/01/2025
2.0	1. Changed Radar connector parts to smaller height (from 3.5mm to 1.5mm) 2. Updated the LED series resistor values after fine tuning: R5 to 120 OHM, R54 to 162 OHM, R174 to 953 OHM, R175 to 680 OHM 3. Made 10-pin SWD connector as DNI 4. Discrete User LEDs (D12, D14) removed 5. Made C114 as DNI 6. Added R348, R349, R350 7. Made R76, R79 as DNI (Alt. Serial Int. Config. resistors) 8. Made all User Sw. Debounce capacitors (C129-C131) as DNI 9. Updated AMIC signal processing circuit 10. DVP cam interface removed along with the supporting regulators 11. Changed 16-pin MikroBUS headers (J12, J13) to 3221-16-0300-00-TR 12. Replaced the Reset button, Mode Sw. & Power Sw. on the bottom side of the board with a higher actuator length 13. Changed RefDes as per standard: Power LED: D1 (from D4), Status LED: D2 (from D9), RGB User LED: D3 (from D13), Reset Sw: SW1 (from SW6), Mode Sw: SW3 (from SW2), User SW1: SW2 (from SW3) 14. Segregated the Display and Touch Reset pins 15. Segregated Flash and RAM Reset pins 16. Segregated IMU INT1 and INT2 pins 17. Provided optional SPI interface for IMU 18. Changed PSOC Edge E84 silicon from A0 to B0 19. Changed MCU pin mappings of INT_CO2, EN_VDD5_CO2, MIKROBUS_INT1, MIKROBUS_INT2, USER_SW3, DISP_TP_INT, RS_RST_LS, RS_GPIO1_LS, RS_GPIO2_LS, RS_IRQ_LS. 20. Changed RAM to S80KS5123GABHI023 (512 Mbit). 21. Camera module changed to HBVCAM 0.3 MP OV7675 in Block diagram. 22. User Switch 3 removed and SW5 made as a Boot Switch. 23. SW1 changed to a Right angle mount from Straight mount. 24. Boot Switch (SW5) part updated 25. SMIF0_CS changed to P5.0 and USB_HOST_EN changed to P2.0 26. Updated U1, U2 to new parts 27. C209 added across R28 instead of putting before it. C210 removed 28. USB VBUS Detect section circuit updated 29. U10 updated to Octal Flash (1 Gbit) from QSPI Flash 30. R236-R241 changed to 49.9K from 10K 31. R242 made DNI and R243 as populated 32. Extended MIC Board Interface added 33. AMICs, DMICs and RGB LED sections removed 34. BT_REG_ON pin assignment changed to P13.6 35. Changed TP15-TP18 to SMD 36. ACC16 made DNI	RISR	03/09/2025
3.0	1. Swapped SMIF0_DATA5 and SMIF0_DATA7 connections at U10 2. Updated with Wurth alternate parts	RISR	23/09/2025
4.0	1. R159 value changed to 47K from 49.9K 2. MCU Pin mapping for PDM2 changed from P8.2, P8.4 to P9.0, P9.1 3. R355, R356, R357, R358, C254, C255, FB7, ACC12, ACC13 added 4. R252 package changed from 0603 to 0805 5. Alternate serial interface removed 6. MikroBUS Shuttle Interface connector (J12, J13) connections mirrored horizontally and vertically 7. Added R359-R366 to swap UART lines for MikroBUS Shuttle interface 8. L3, L4 made DNI 9. U20 made as DNI	RISR	10/12/2025
5.0	C156, C157 changed from 5% to 2% tolerance capacitors	RISR	01/04/2026

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