

## CY8CKIT-045S PSoC 4500S Pioneer Kit

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### Drawing Numbers

PCBA	121-60582-01
PCB	600-60582-01
FAB DRW	610-60582-01
ASSY DRW	620-60582-01
SCH DRW	630-60582-01



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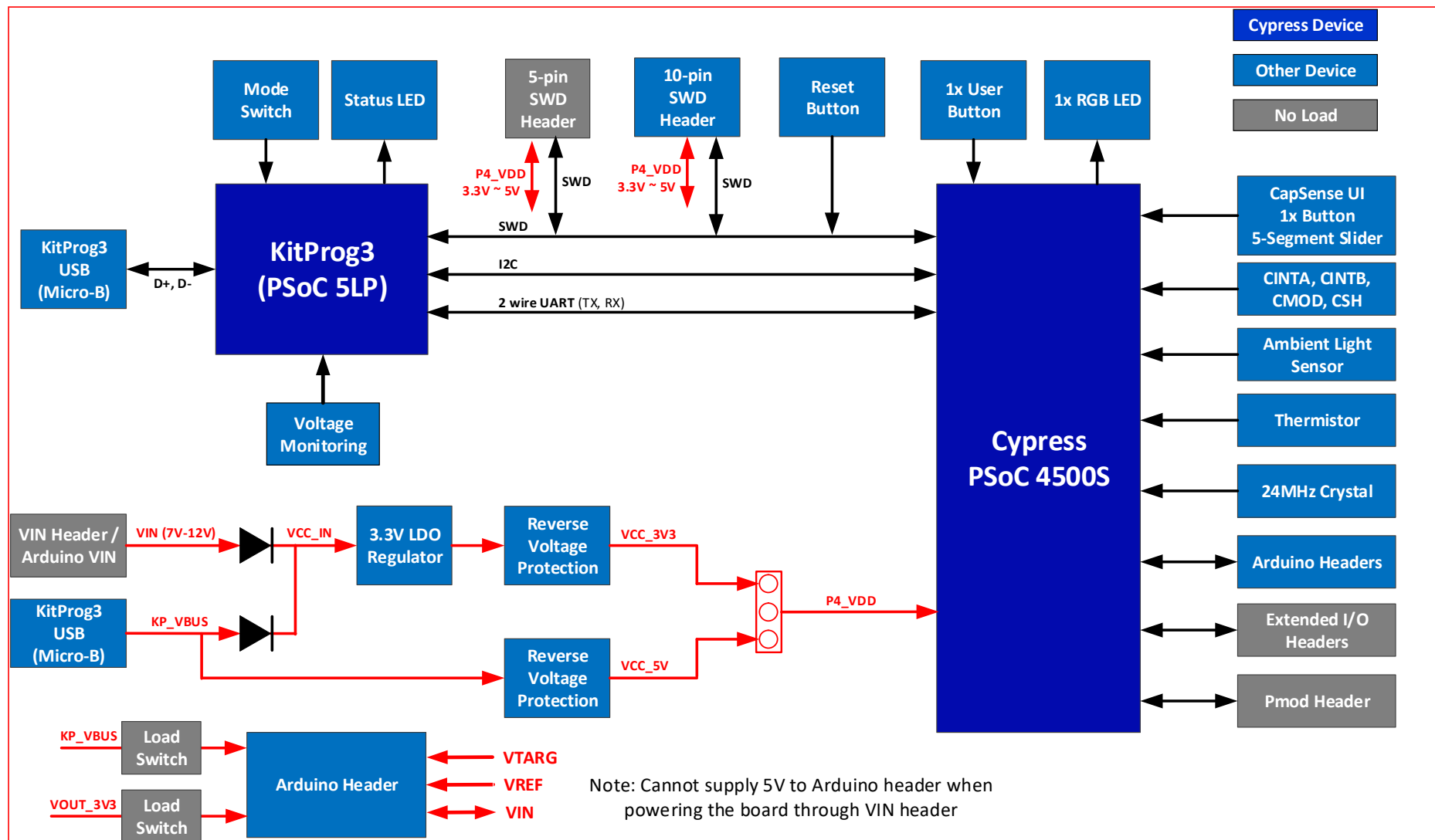
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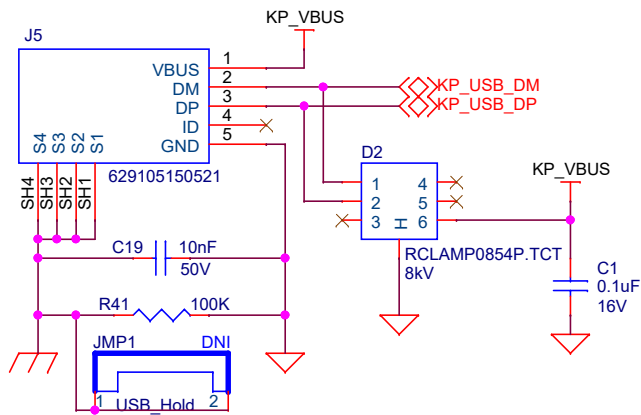
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Page Title : Title Page

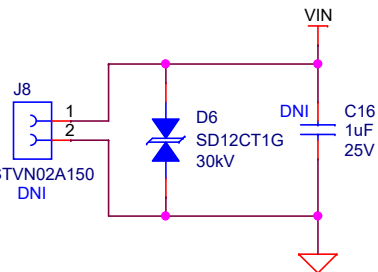
Size A4	Document Number <b>630-60582-01</b>	Drawn By <b>RISR</b>	Approved By <b>RKAD</b>	Rev <b>04</b>
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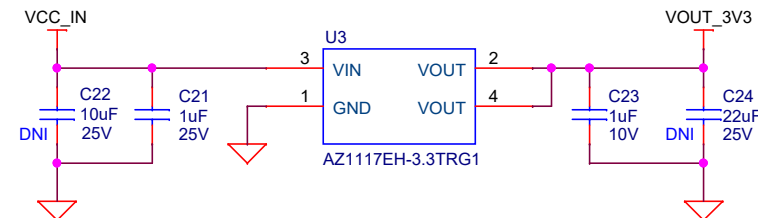
### KitProg3 USB Micro-B connector



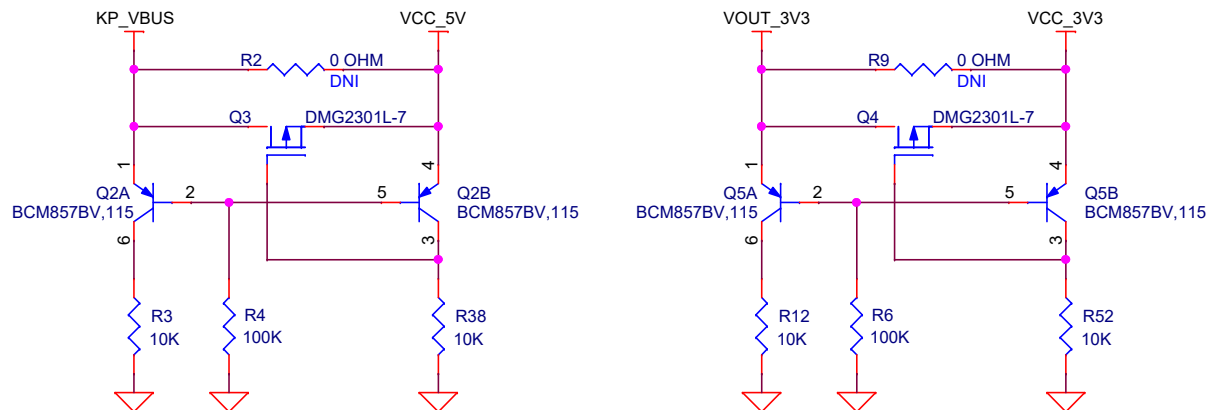
### VIN Header



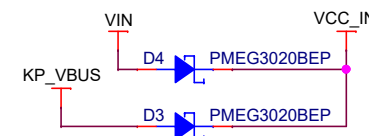
### 3.3V Regulator



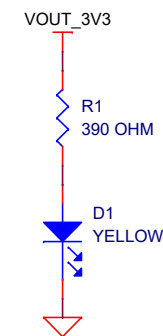
### Reverse Voltage Protection



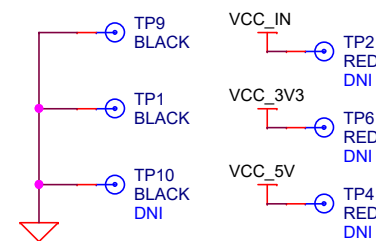
### Power Supply 'OR'ing



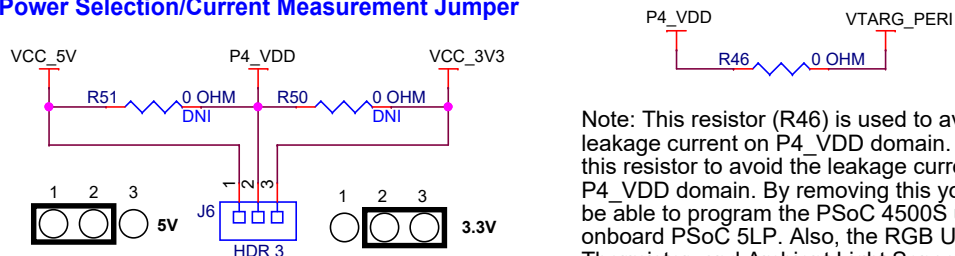
### Power LED



### Test Points



### Power Selection/Current Measurement Jumper



Note: This resistor (R46) is used to avoid leakage current on P4\_VDD domain. Remove this resistor to avoid the leakage current on P4\_VDD domain. By removing this you will not be able to program the PSoC 4500S using the onboard PSoC 5LP. Also, the RGB User LED, Thermistor and Ambient Light Sensor will not work.



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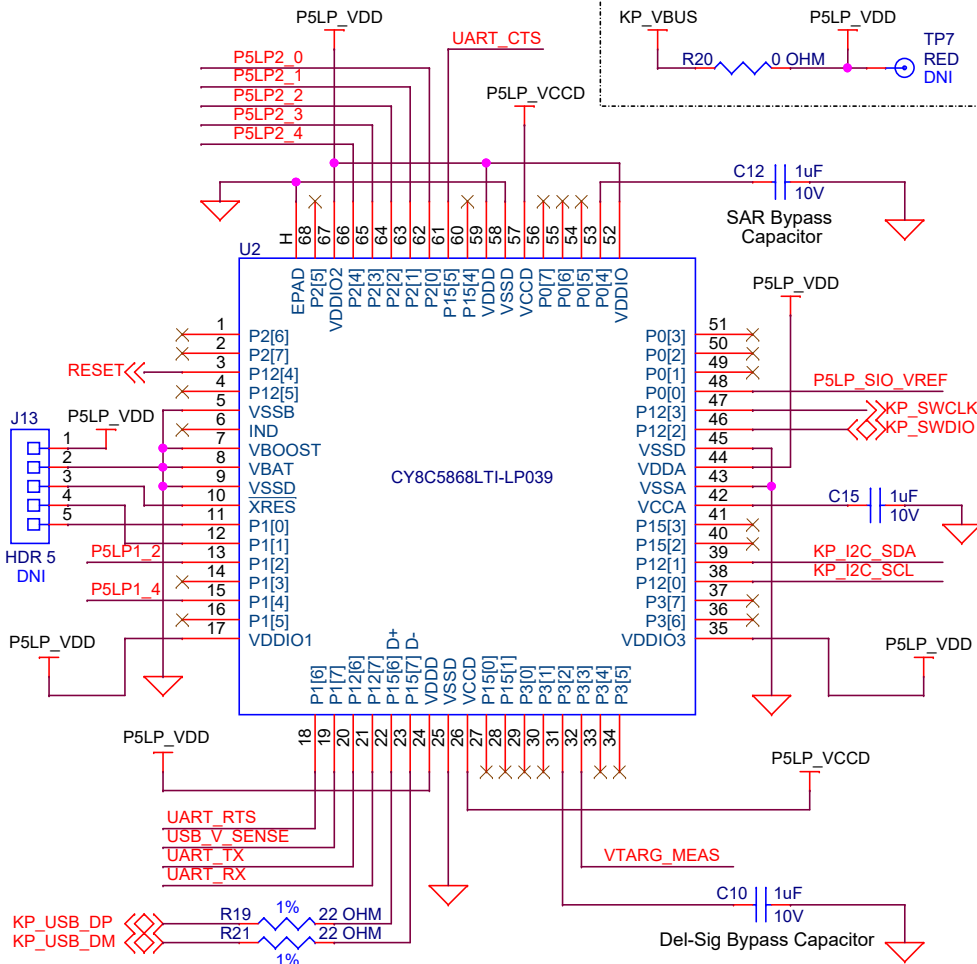
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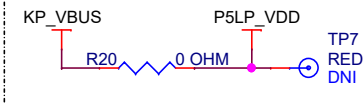
**Page Title : Power Supply**

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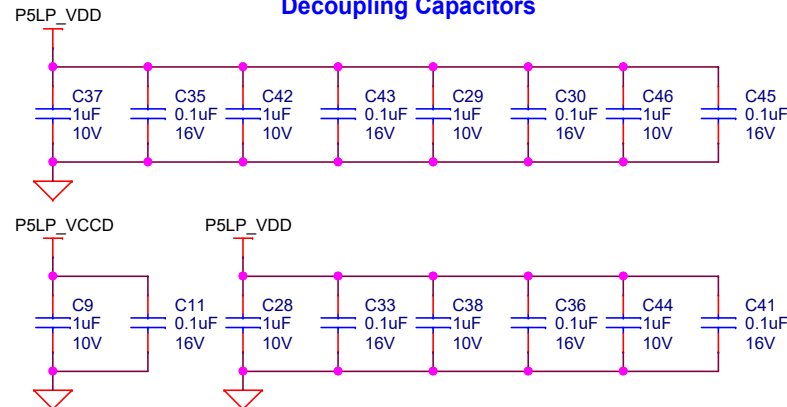
## PSoC 5LP based KitProg3



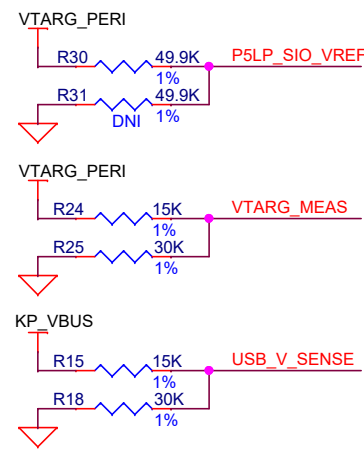
### PSoC 5LP Power



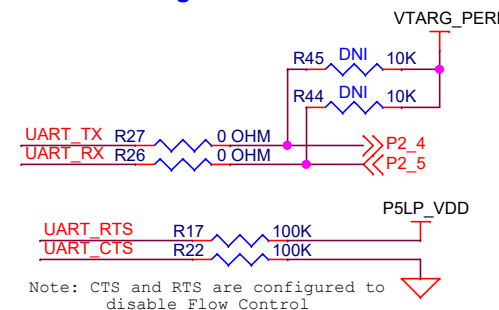
### Decoupling Capacitors



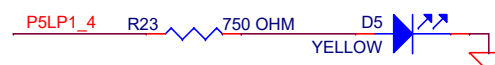
### Voltage Monitoring



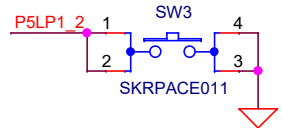
### KitProg3 UART Interface



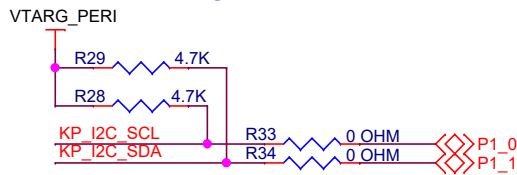
### KitProg3 Status LED



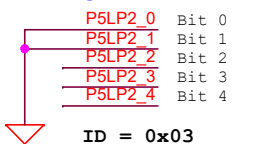
### Mode Switch



### KitProg3 I2C Interface



### KitProg3 H/W Revision



Note: GND is read as binary "1" and floating as "0".

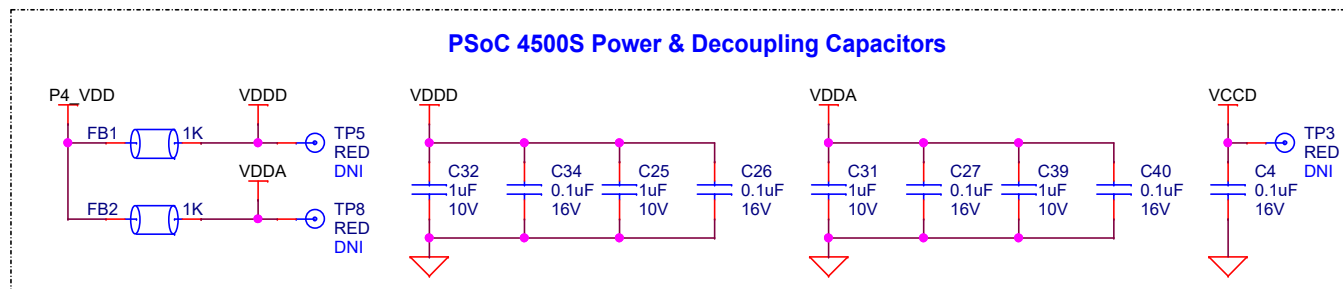
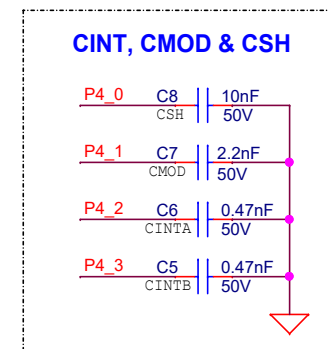
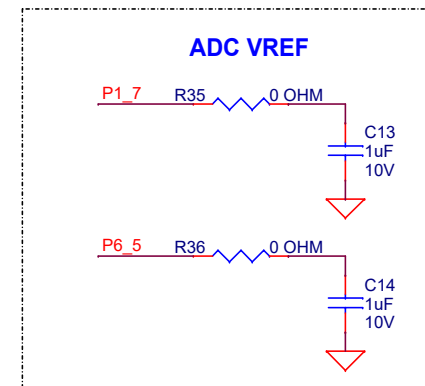
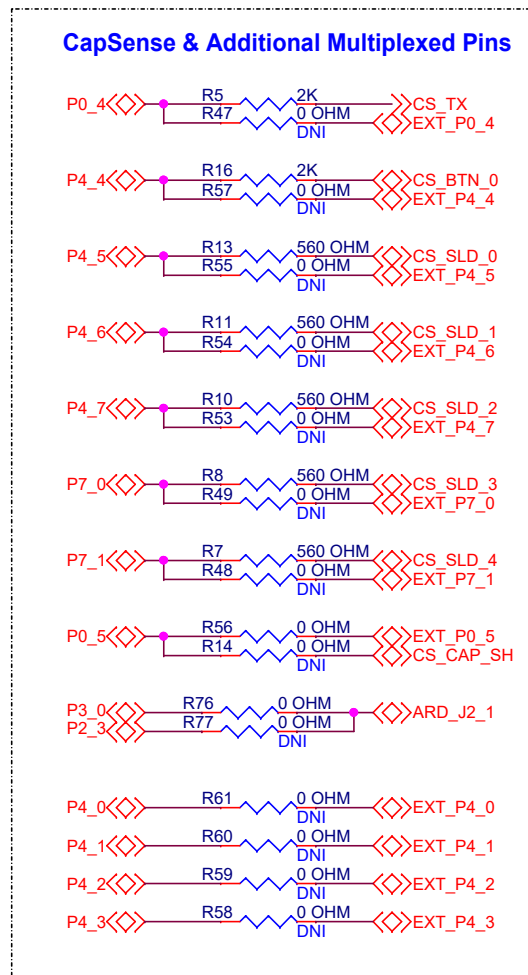
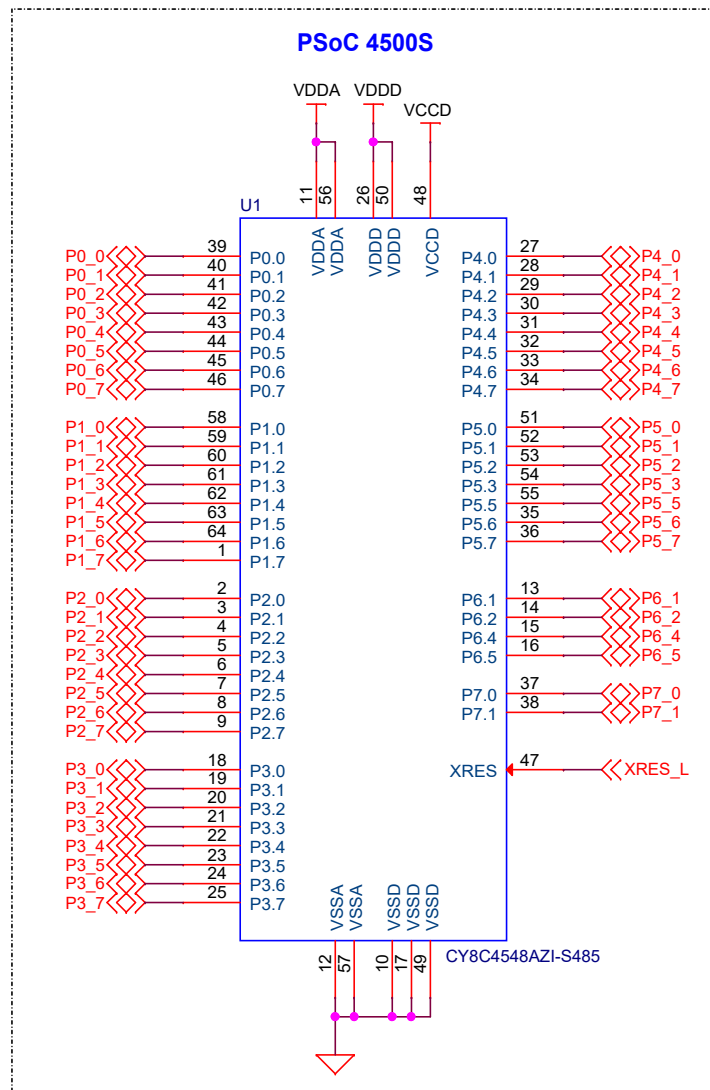


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Page Title : KitProg3 Interface

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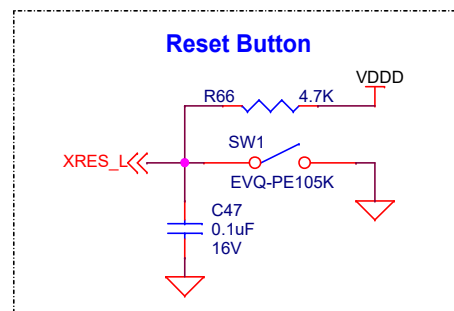
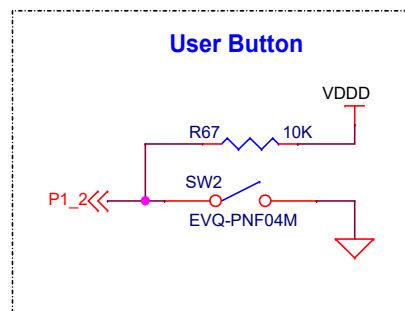
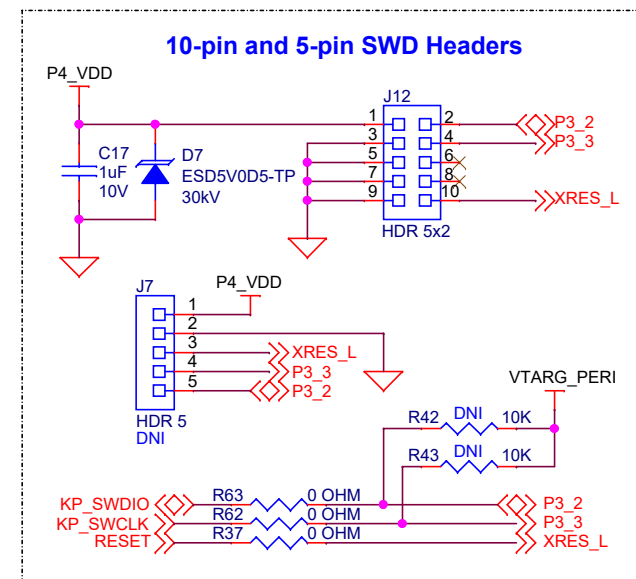
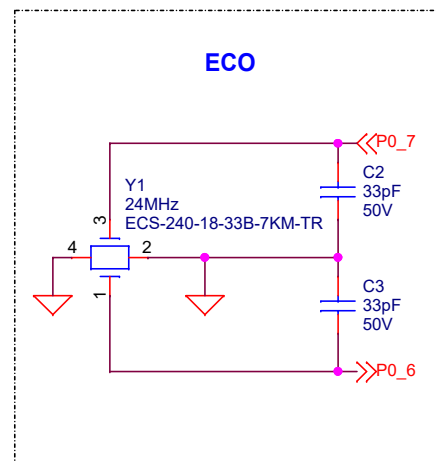
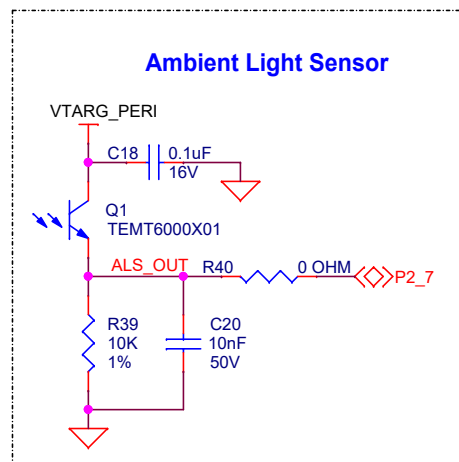
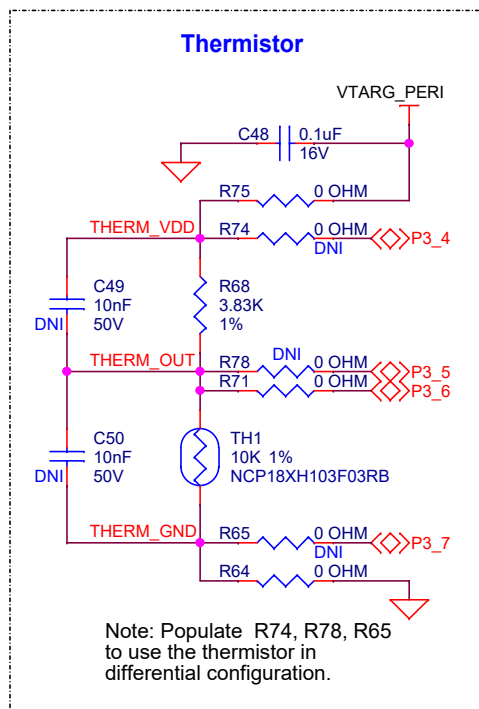
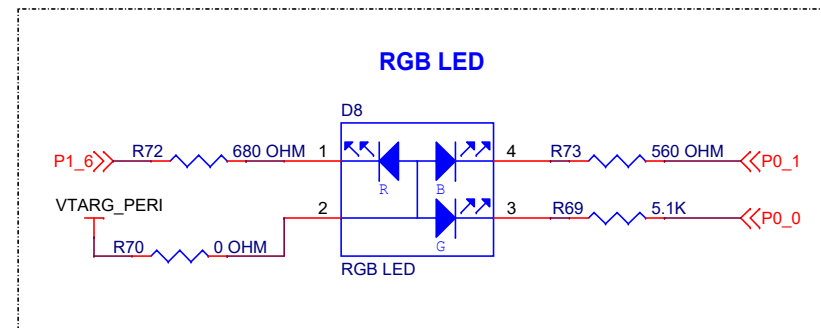
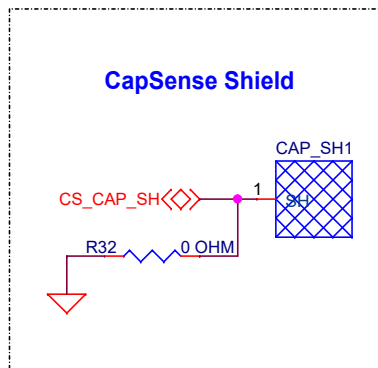
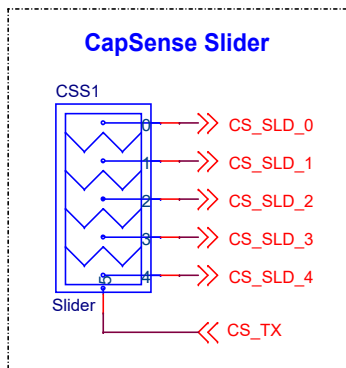
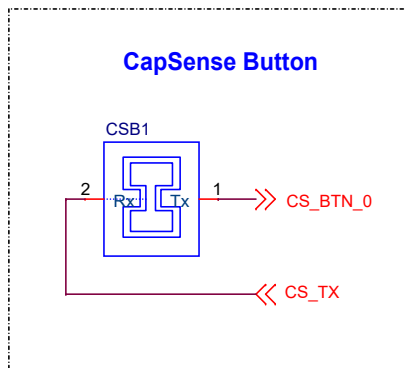
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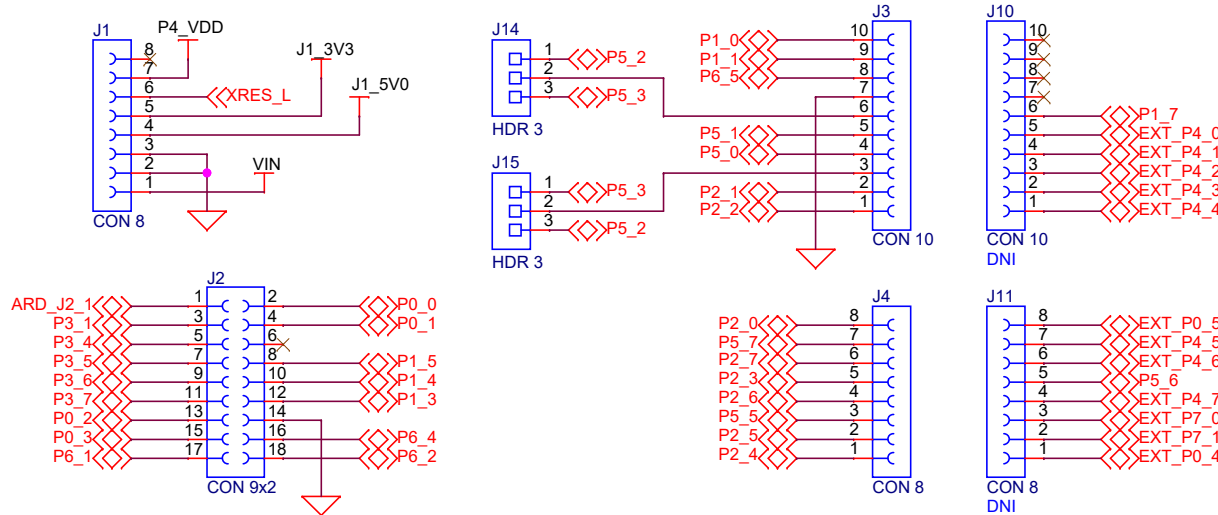
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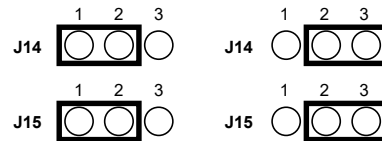


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## Arduino & Extended Headers



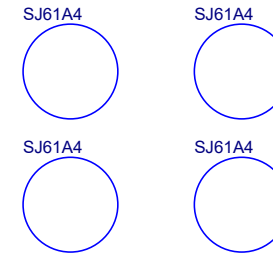
Note: Use jumper setting 2 while using CY8CKIT-037. Jumper setting 1 is by default.  
(Jumper setting 1) (Jumper setting 2)



Note: 5V on Arduino header will be present only when KitProg3 USB is connected.

## Accessories

### Cylindrical Bump-ons



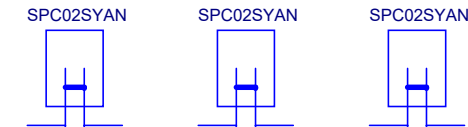
### Acrylic Overlay

Overlay

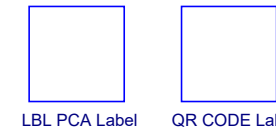
Color: Clear, Transparent  
Finish: Matt

Dimensions:  
69mm - length  
22mm - height  
1mm - thickness

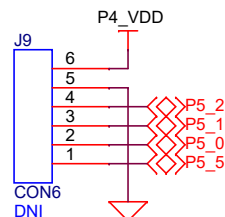
### Jumper Shunts



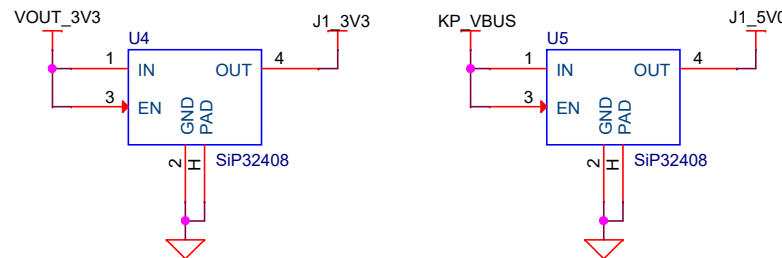
### PCBA label



### Pmod Header



### Reverse Voltage Protection for Arduino Header



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Page Title : Arduino Headers, Expansion Headers & Accessories

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REVISION HISTORY			
REV	DESCRIPTION OF CHANGE	Orig. of Change	DATE
01	Initial Release	AARA	08/04/2020
02	1) PSoC 5LP programming testpoints removed, 5-pin header added 2) 5-Pin programming header for PSoC 4 added 3) Testpoint for VCCD added 4) Thermistor divider resistor value changed to 3.83K for 10C - 50C temperature range with internal VREF at 5V 5) 10-pin programming header TVS diode changed to 5V part, made populated 6) All available components updated to database 7) Back annotated schematic 8) Block diagram updated; J5 part changed; JMP1 made as DNI; R41 updated; R1 changed to 390ohms; TP1, D7 populated; J13 added; R38, R39 removed; C48, C49, C50 added; R42, R43 added; J14, J15 added; R35, R36 added; R73, R69 values updated; Overlay description updated; USB cable removed; ACC14 added, C4 changed to 0.1uF. 9) HW Revision changed to 0x03	RISR	22/10/2020
03	1) C5, C6, D6 part MPNs changed with alternatives. 2) Block Diagram updated; Overlay dimension updated	RISR	19/11/2020
04	QR Code Label added	RISR	21/12/2020



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