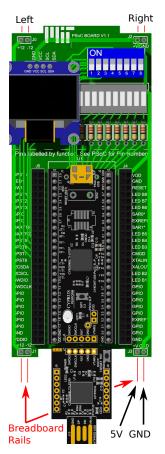


## **PSoC 5LP Board v1.4**

## Board and PSoC Label Listing

## 1 Overview

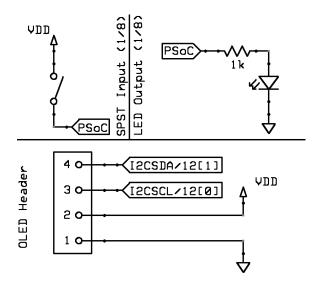
- CY8CKIT-059 PSoC 5LP Evaluation Stick.
  - CY8C5888LTI-LP097 Microcontroller
  - Built-in KitProg programmer for the microcontroller through Male USB connector
  - User LED and switch
  - Female Micro-B connector for USB applications
- · Fits onto standard breadboard rails.
- 8 SPST Switches and LEDs for User IO.
- · OLED for graphical display.
- 3.3V or 5V operation (fed from right side rail).
- Compatible with the PSoC 6.131 Shield.

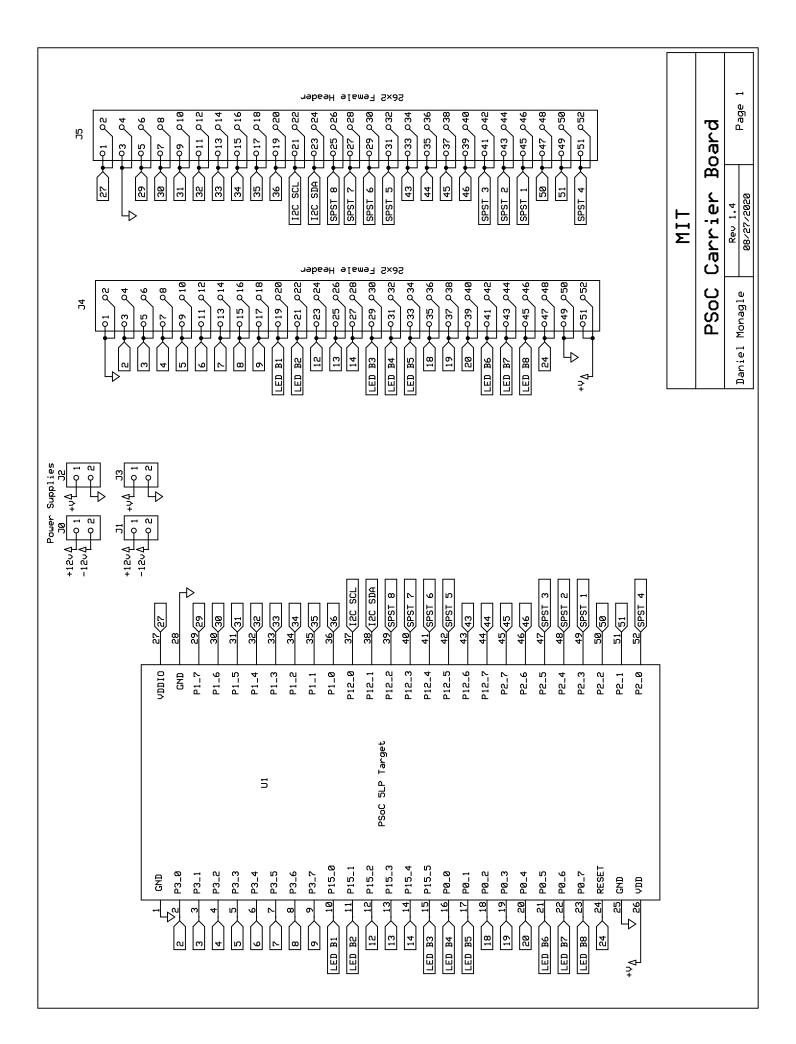


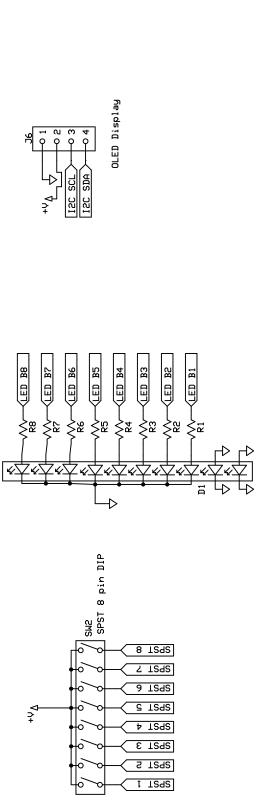
Left		Right	
Board	PSoC	PSoC	Board
SPST 4	2[0]	VDD	VDD
LED1	2[1]	GND	GND
SW1	2[2]	RST	RESET
SPST 1	2[3]	0[7]	LED B8
SPST 2	2[4]	0[6]	LED B7
SPST 3	2[5]	0[5]	LED B6
GPIO	2[6]	0[4]	SAR 0*
GPIO	2[7]	0[3]	EXTREF 0*
UARTTX	12[7]	0[2]	SAR 1*
UARTRX	12[6]	0[1]	LED B5
SPST 5	12[5]	0[0]	LED B4
SPST 6	12[4]	15[5]	LED B3
SPST 7	12[3]	15[4]	CMOD
SPST 8	12[2]	15[3]	XTALIN*
12CSDA	12[1]	15[2]	XTALOUT*
12CSCL	12[0]	15[1]	LED B2
SWDIO	1[0]	15[0]	LED B1
SWDCLK	1[1]	3[7]	GPIO
GPIO	1[2]	3[6]	GPIO
GPIO	1[3]	3[5]	GPIO
GPIO	1[4]	3[4]	GPIO
GPIO	1[5]	3[3]	GPIO
GPIO	1[6]	3[2]	EXTREF1*
GPIO	1[7]	3[1]	GPIO
GND	GND	3[0]	GPIO
VDDIO	VDDIO	GND	GND

## 2 Description

- **SPST Inputs**: The DIP bank of 8 SPST switches connect to VDD when in the "ON" position. Otherwise they are open and require a pull-down circuit (i.e. set the PSoC pin to the "Resistive Pull Down" drive mode)
- **LED Outputs:** The DIP LED Bank has the 8 rightmost LEDs connected to the PSoC through  $1\,\mathrm{k}\,\Omega$  current-limiting resistors. LED B8 corresponds to the right-most LED segment.
- **OLED Display:** The OLED Display should be connected to by a "I2C Master" component on the PSoC. The pins should be set to the "Open Drain" drive mode.







LED 10-Segment Array

Accessories

Accessories

Accessories