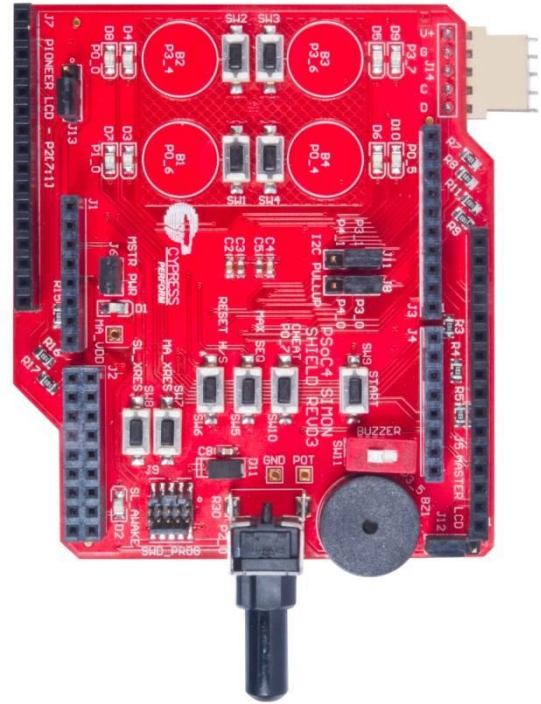
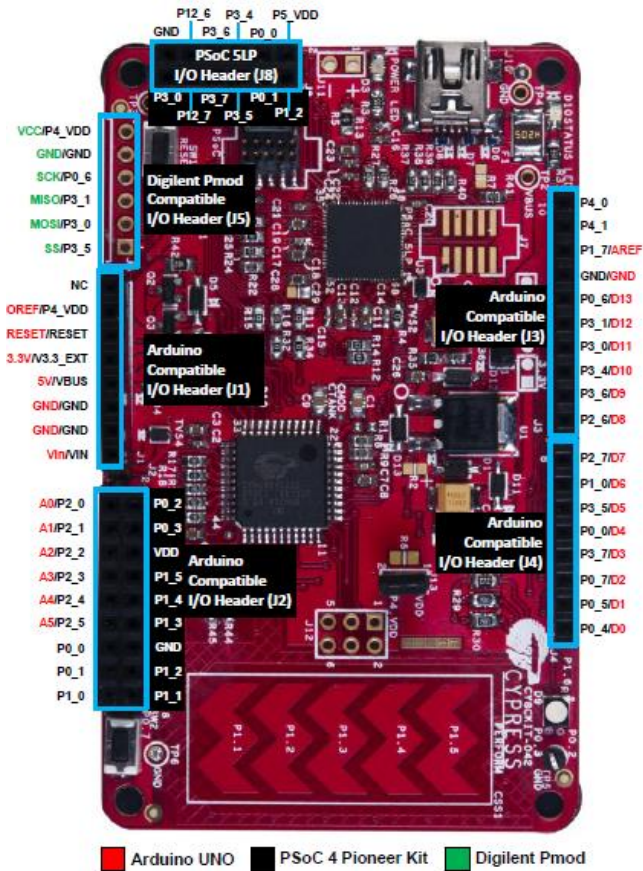
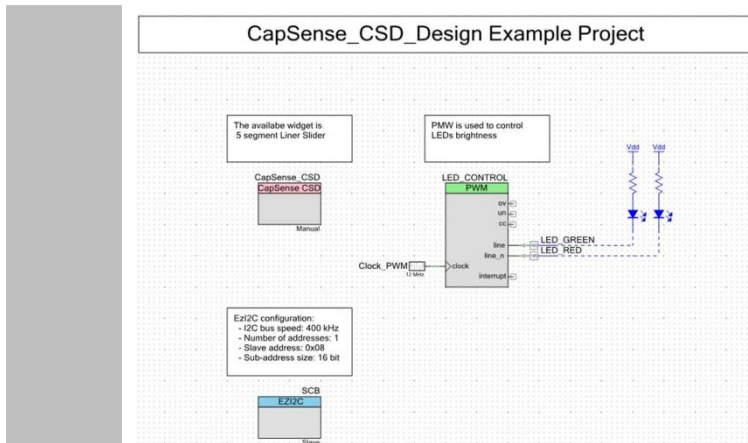
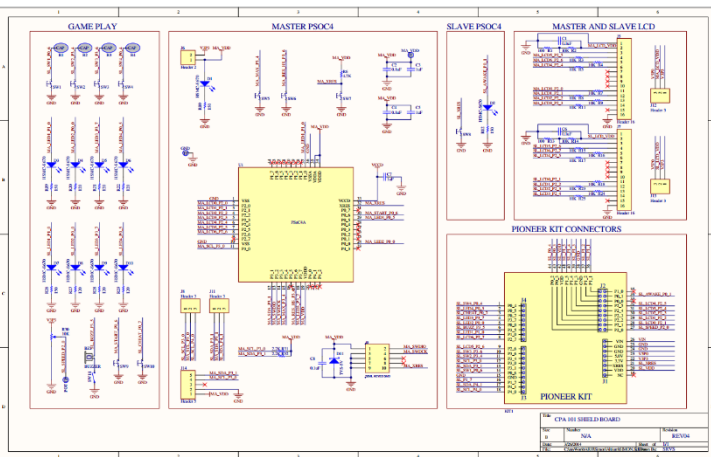


# Cypress ACADEMY

## PSoC-101



# DESIGN THE WAY YOU THINK



## Shield Resources

PSoC 4 Pioneer Pin	Shield Connection	Function
P0[6]	SW1 and Capsense 1	Button 1
P3[4]	SW2 and Capsense 2	Button 2
P3[6]	SW3 and Capsense 3	Button 3
P0[4]	SW4 and Capsense 4	Button 4
P0[7]	SW10	Button "CHEAT"
P1[0]	D7	LED 1
P0[0]	D8	LED 2
P3[7]	D9	LED 3
P0[5]	D10	LED 4
P0[1]	D2	LED "AWAKE"
P2[0]	R30	Potentiometer (POT)
P3[5]	BZ1	Buzzer
P3[0]	I2C SCL	I2C Clock
P3[1]	I2C SDA	I2C Data
P2[7:1]	LCD	LCD
P4[2]	None	Capsense CMOD

## Pioneer Board Resources

PSoC 4 Pioneer Pin	Onboard Connection
P1[6]	Red LED
P0[2]	Green LED
P0[3]	Blue LED
P0[7]	Button SW2
P1[5:1]	Capsense Slider
P4[2]	Capsense CMOD
P3[0]	I2C Bridge SCL
P3[1]	I2C Bridge SDA
P4[0]	2.2K pullup resistor
P4[1]	2.2K pullup resistor
P3[2]	SWDIO (programming)
P3[3]	SWDCK (programming)

**Why does my design not work?**  
**Did you remember to...**

- 1) Set the pins?**
- 2) Start the components?**
- 3) Set the correct active workspace?**
- 4) Program the board?**