FreeSoC2 (Dev-13229)
Arduino Configuration

USB microB target

USB microB debugger

JST connector

Name	Arduino	Serial
Power	Port	Ext Int
GND	ADC	SIO
Control	PWM	

Power
Vin = 2.5V-12V
VDDIO = 3.3V or 5V
5V @ 500mA/ 3.3V @ 500mA

Buttons
Debugger Reset
Debugger button (P2.2)
Target Reset
Target Button (P1.2)
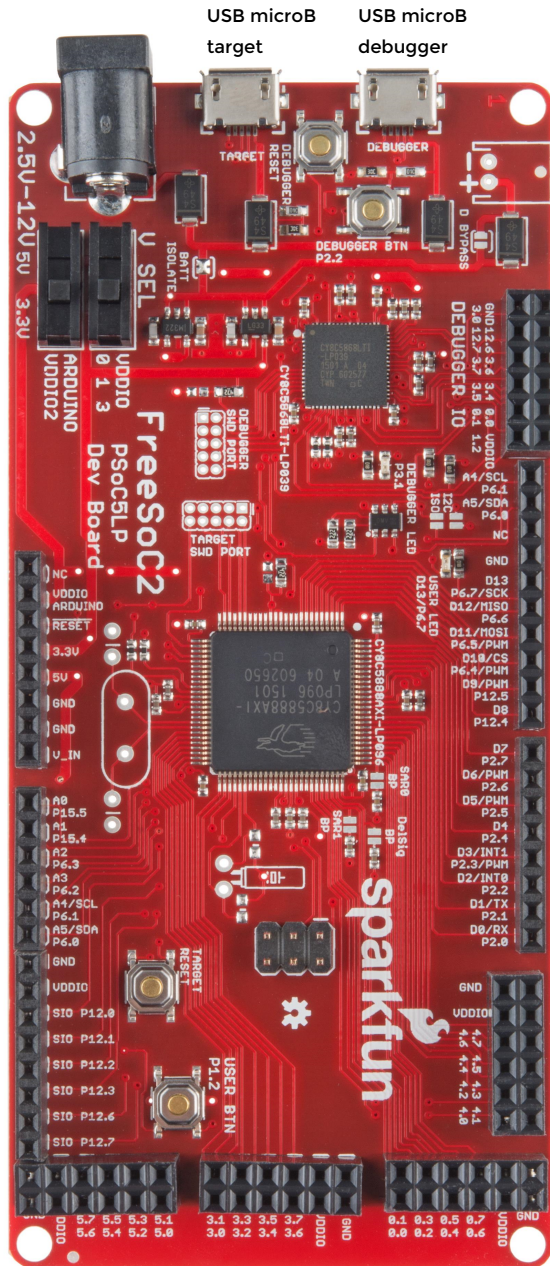
LEDs
Debugger LED (lit if can't detect a host; flash during data transfer)
User LED: D13/P6.7

FreeSoC2 PSoC5LP Dev Board

sparkfun

VDDIO Power switch
Arduino VDDIO Power switch

2.5V-12V **5V** **3.3V**

DEBUGGER IO

3.0	Debugger	GND	GND
12.7	Debugger	12.6	Debugger
3.7	Debugger	3.6	Debugger
3.5	Debugger	3.4	Debugger
0.1	Debugger	0.0	Debugger
1.2	Debugger	VDDIO	VDDIO

A4	A4	P6.4	A4	SDA
A5	A5	P6.8	A5	SCL
NC				
GND	GND			
D13	D13	P6.7	SCK	
D12	D12	P6.6	MISO	
D11	D11	P6.5	PWM	MOSI
D10	D10	P6.4	PWM	CS
D9	D9	P12.5	PWM	
D8	D8	P12.4		

D7	D7	P2.7		
D6	D6	P2.6	PWM	
D5	D5	P2.5	PWM	
D4	D4	P2.4		
D3	D3	P2.3	PWM	INT1
D2	D2	P2.2	INT0	
D1	D1	P2.1	TX	
D0	D0	P2.0	RX	

NC	NC		
VDDIO2	VDDIO Arduino		
Reset	Reset		
3.3V	3.3V		
5V	5V		
GND	GND		
GND	GND		
Vin	V_IN		

A0	P15.5	A0	A0	
A1	P15.4	A1	A1	
A2	P6.3	A2	A2	
A3	P6.2	A3	A3	
SDA	A4	P6.1	A4	A4
SCL	A5	P6.0	A5	A5
		GND	GND	
		VDDIO	VDDIO	
	SIO	P12.0	SIO P12.0	
	SIO	P12.1	SIO P12.1	
	SIO	P12.2	SIO P12.2	
	SIO	P12.3	SIO P12.3	
	SIO	P12.6	SIO P12.6	
	SIO	P12.7	SIO P12.7	

GND	GND	GND	GND
VDDIO	VDDIO	VDDIO	VDDIO
5.6	5.6	5.7	5.7
5.4	5.4	5.5	5.5
5.2	5.2	5.3	5.3
5.0	5.0	5.1	5.1

GND	GND	GND	GND
VDDIO	VDDIO	VDDIO	VDDIO
4.6	4.6	4.7	4.7
4.4	4.4	4.5	4.5
4.2	4.2	4.3	4.3
4.0	4.0	4.1	4.1

GND	GND	GND	GND
VDDIO	VDDIO	VDDIO	VDDIO
0.7	0.7	0.6	0.6
0.5	0.5	0.4	0.4
0.3	0.3	0.2	0.2
0.1	0.1	0.0	0.0

3.1	3.1	3.0	3.0
3.3	3.3	3.2	3.2
3.5	3.5	3.4	3.4
3.7	3.7	3.6	3.6
VDDIO	VDDIO	VDDIO	VDDIO
GND	GND	GND	GND