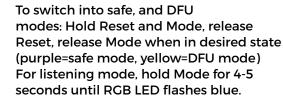
Name JTAG Power **12S** GND PWM Control Serial DAC Misc Arduino pins 5V tolerant as digital pins

Arduino pins 3.3V only

Photon Redboard (DEV-13321)

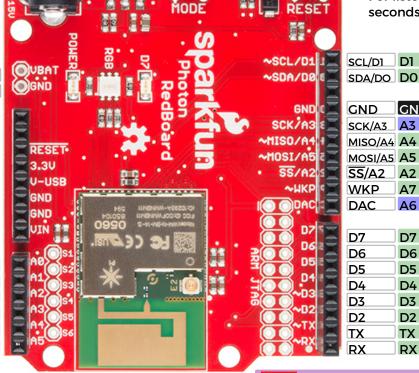


PWM

PWM

SCL(12C1) CAN TX

SDA(I2C1)



Mode

MicroB USB

Reset

3	SDA/DO		L AAIAI	SDA(IZCI)		
	GND	GND				
	SCK/A3	A3	SCK(SPI1)	DAC2		
Z	MISO/A4	A4	PWM	MISO(SPI1)		
	MOSI/A5	A5	PWM	MOSI(SPI1)		
I	SS/A2	A2	SS(SPI1)			
I	WKP	A7	PWM			
	DAC	A6	DAC1			
-	D7	D7	JTAG TMS			
	D6	D6	JTAG TCK	LED		
	D5	D5	JTAG TDI	I2S WS	SS(SPI3)	
	D4	D4	JTAG TDO	I2S SCK	SCK(SPI3)	
	D3	D3	JTAG TRST	PWM	MISO(SPI3)	
	D2	D2	I2S SD	PWM	MOSI(SPI3)	CAN RX
	TX	TX	PWM	UART1		

PWM UARTI

S1 currently not implemented S2 currently not implemented S3 currently not implemented S4 currently not implemented currently not implemented S5 currently not implemented

VBAT

VBAT

GND

A0

A1

A2

A3

Α4

SS (SPI1)

SCK(SPI1)

DAC2

MISO(SPI1) PWM

MOSI(SPI1) PWM

GND GND

RESET RESET

3.3V

GND

GND VIN

A0

A1

Α2

Α3

Α4

Α5

V-USB

ITAG Header 2: NC 1: 3.3V 3: D3 (TRST) 4: GND 5: D5 (TDI) 8: GND 7: D7 (TMS) 9: D6 (TCK) 10: GND 11: GND 12: GND 13: D4 (TDO) 14: GND 15 16 16: GND 15: RST 17: NC 18: GND 19: NC 20: GND

Power

VCC: 3.3V @ 800mA

V-USB: 4.8V @ 500mA

Vin: 4.5-15V

Typical current consumption of P1: 80mA

Required available current: 600mA

Serial I for pins labeled RX/TX

Serial for USB serial

Particle's P1 Module - ARM Cortex M3

Broadcom BCM43362

802.11b/g/n

Vin: 4.5-15V

12-bit ADC

STM32F205 120Mhz ARM Cortex M3

1MB flash + 1MB external SPI flash

128KB RAM

1MB external SPI flash

Cyan-Breathing: Connected to Wifi and Particle Cloud **LEDs** Cyan-Blinking: Connecting to Particle Cloud Power: Red Green-Blinking: Connecting to WiFi D7: User Blue-Blinking: Listening mode (waiting for WiFi info) **RGB: Status** Magenta -Blinking: Receiving new application or firmware over-the-air Magenta-Breathing: Connected in safe mode White-Breathing: WiFi module is off

Yellow-Blinking: DFU mode

RX

