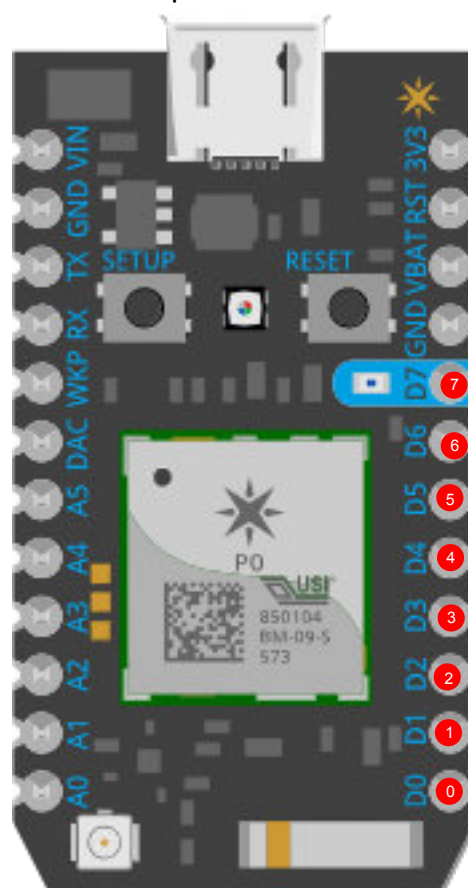


Name	I2C/Wire	I2C
Power	CAN	JTAG
GND	DAC	SPI
Control	Serial	
ADC	TIM	

	VIN	VIN
	GND	GND
TIM1_CH2	UART1_TX	TX
TIM1_CH3	UART1_RX	RX
TIM5_CH1	ADC0	WKP
DAC1	ADC4	DAC
SPI1_MOSI	TIM3_CH2	ADC7
SPI1_MISO	TIM3_CH1	ADC6
SPI1_SCK	DAC2	ADC5
SPI1_SS	ADC12	A2
	ADC13	A1
	ADC15	A0



- 0 DHT11 data pin (left pin: [S+-])
- 1 MOSFET ch 1 / Remote RJ45 PIN1 (w/orj):
- 2 MOSFET ch 2 / Remote RJ45 PIN2 (orj):
- 3 MOSFET ch3 / Remote RJ45 PIN3 (w/grn):
- 4 MOSFET ch4 / Remote RJ45 PIN4 (w/blu):
- +12 Remote RJ45 PIN8 (brn):
- GND Remote RJ45 PIN6 (grn):
- 5 MOSFET case molex 5
- 6 MOSFET case molex 6
- 7 MOSFET case molex 7

output INPUT

3V3	3V3		
RST	RST		
VBAT	VBAT		
GND	GND		
D7	JTAG_TMS		
D6	JTAG_TCK		
D5	I2S_WS	JTAG_TDI	SPI3_SS
D4	I2S_SCK	JTAG_TDO	SPI3_SCK
D3	TIM3_CH1	JTAG_TRST	SPI3_MISO
D2	CAN2_RX	TIM3_CH2	SPI3_MOSI
D1	SCL	CAN2_TX	TIM4_CH1
D0	SDA	TIM4_CH2	

Parameter	Symbol	Min	Typ	Max	Unit
Supply Input Voltage	$V_{IN}$	+3.6	+5.5		V
Supply Input Voltage	$V_{3V3}$	+3.0	+3.3	+3.6	V
Supply Output Voltage	$V_{IN}$	+4.8			V
Supply Output Voltage	$V_{3V3}$	+3.3			V
Supply Input Voltage	$V_{VBAT}$	+1.65	+3.6		V
Supply Input Current (VBAT) I	$I_{VBAT}$	19			uA
Operating Current I	$I_{IN avg}$	80		100	mA
Operating Current I	$I_{IN pk}$	235	430		mA
Operating Current (w/powersave)	$I_{IN avg}$	18		100	mA
Operating Current (Wi-Fi off) I	$I_{IN avg}$	30		40	mA
Sleep Current (5V @ VIN)	$I_{QS}$	1.2	mA		
Deep Sleep Current (5V @ VIN)	$I_{Qds}$	80		100	uA
Operating Temperature	$T_{op}$	-20	+60		°C
Humidity Range Non condensing, relative humidity			95		%

## NORMAL OPERATIONS LED COLOR CODES

**White pulse:** Start-up (happens when the Photon is first powered on or when it's reset)

**Flashing blue:** Smart Config, waiting for Wi-Fi credentials

**Solid blue:** Smart Config, received Wi-Fi credentials

**Flashing green:** Connecting to local Wi-Fi network

**Flashing cyan:** Connecting to Particle Cloud

**Fast flashing cyan:** Particle Cloud handshake

**Breathing cyan:** Connected to Particle Cloud

**Flashing magenta:** Receiving new firmware update over-the-air (OTA)

**Breathing magenta:** Safe mode, connected to Particle Cloud but user firmware not running

## ERROR COLOR CODES

**Flash Red twice:** Connection failure, no internet connection

**Flash red three times:** Connection failure, Cloud is unreachable

**Orange flashing:** Connection failure, bad handshake

## FACTOR RESET & BOOTLOADER COLOR CODES

**Solid white:** Factor reset started

**Fast flashing white:** Flashing code from factory reset memory

**Flashing yellow:** Bootloader mode, waiting for code (USB or JTAG)

## Notes:

(1) All pins except A3 and DAC are 5V tolerant (when not in analog mode). If used as a 5V input the pull-up/pull-down resistor must be disabled.

(2) PWM is available on D0, D1, D2, D3, A4, A5, WKP, RX, TX with a caveat: PWM timer peripheral is duplicated on two pins (A5/D2) and (A4/D3) for 7 total independent PWM outputs. For example: PWM may be used on A5 while D2 is used as a GPIO, or D2 as a PWM while A5 is used as an analog input. However A5 and D2 cannot be used as independently controlled PWM outputs at the same time.