

Pin	USB	Exposed Functions			STM32 Pin	PØ Pin #	PØ Pin Name	
VIN		VIN						
GND		GND						
TX	PHOTON		USART1_TX	TIM1_CH2	PA9	39	MICRO_UART_TX	
RX			USART1_RX	TIM1_CH3	PA10	38	MICRO_UART_RX	
WKP				TIM5_CH1	PA0	27	MICRO_WKUP	
DAC		ADC4			DAC1	PA4	22	MICRO_SPI_SSN <sup>[1]</sup>
A5		ADC7	SPI (MOSI)		TIM3_CH2	PA7	23	MICRO_SPI_MOSI
A4		ADC6	SPI (MISO)		TIM3_CH1	PA6	25	MICRO_SPI_MISO
A3		ADC5	SPI (SCK)		DAC2	PA5	24	MICRO_SPI_SCK
A2		ADC12	SPI (SS)			PC2	2	MICRO_GPIO_6
A1		ADC13				PC3	1	MICRO_GPIO_7
A0		ADC15				PC5	54	MICRO_GPIO_8

USB	Pin	Exposed Functions			STM32 Pin	PØ Pin #	PØ Pin Name		
	3V3	3V3							
	RST	RST			E8	26	MICRO_RST_N		
	VBAT	VBAT			A9	28	VBAT		
	GND	GND							
	D7	JTAG_TMS			PA13	44	MICRO_JTAG_TMS		
	D6	JTAG_TCK			PA14	40	MICRO_JTAG_TCK		
	D5	JTAG_TDI	SPI1 (SS)		I2S3_WS	PA15	43	MICRO_JTAG_TDI	
	D4	JTAG_TDO	SPI1 (SCK)		I2S3_SCK	PB3	41	MICRO_JTAG_TDO	
	D3	JTAG_TRST	SPI1 (MISO)		TIM3_CH1	PB4	42	MICRO_JTAG_TRSTN	
	D2		SPI1 (MOSI)	CAN2_RX	TIM3_CH2	I2S3_SD	PB5	3	MICRO_GPIO_5
	D1	SCL		CAN2_TX	TIM4_CH1		PB6	5	MICRO_GPIO_3
	D0	SDA			TIM4_CH2		PB7	4	MICRO_GPIO_4

	User I/O	Photon Pin #	Exposed Functions		STM32 Pin	PØ Pin #	PØ Pin Name	
PHOTON	RGB LED - RED	27		TIM2_CH2	PA1	8	MICRO_GPIO_0	
	RGB LED - GREEN	28		TIM2_CH3	PA2	7	MICRO_GPIO_1	
	RGB LED - BLUE	29		TIM2_CH4	PA3	6	MICRO_GPIO_2	
	Setup Button	26		TIM3_CH2	I2S3_MCK	PC7	53	MICRO_GPIO_9
	Reset Button	23			E8	26	MICRO_RST_N	
	USB Data+	31			PB15	51	MICRO_USB_HS_DP	
	USB Data-	30			PB14	52	MICRO_USB_HS_DM	
	SMPS Enable	25						
	Peripheral Key		ADC	SPI	PWM/Servo/Tone			
			JTAG	SPI1	I2S	DAC		
		I2C/Wire	Serial1	CAN				

**Notes:**

[1] MICRO\_SPI\_SSN is only for reference as a PØ module pin name. It is technically speaking the STM32 pin PA4 which is the SS pin in a hardware SPI driven sense, however in the Particle API SPI SS is only user controlled as a GPIO. The hardware SS pin is not implemented. The default SS pin for the Particle SPI API is A2 (STM32 pin PC2), but any GPIO can be used for this function with `SPI.begin(pin)`.