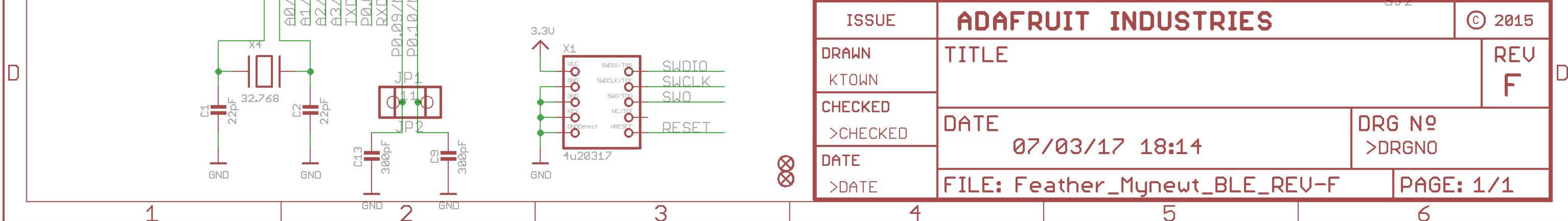
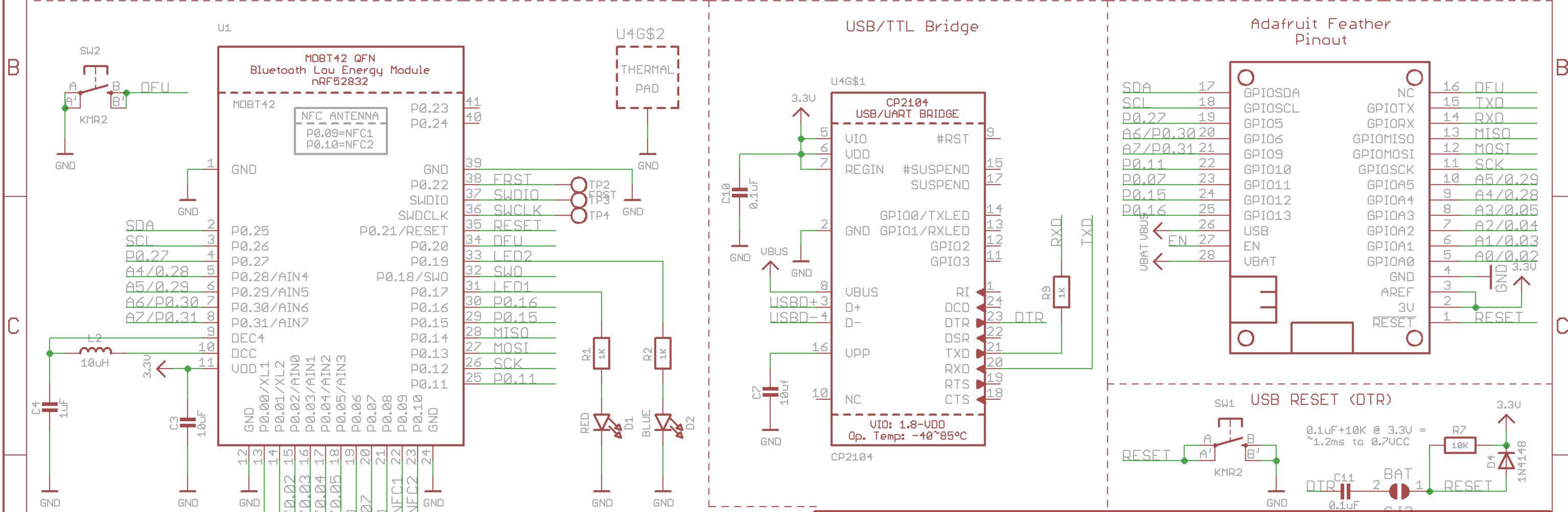
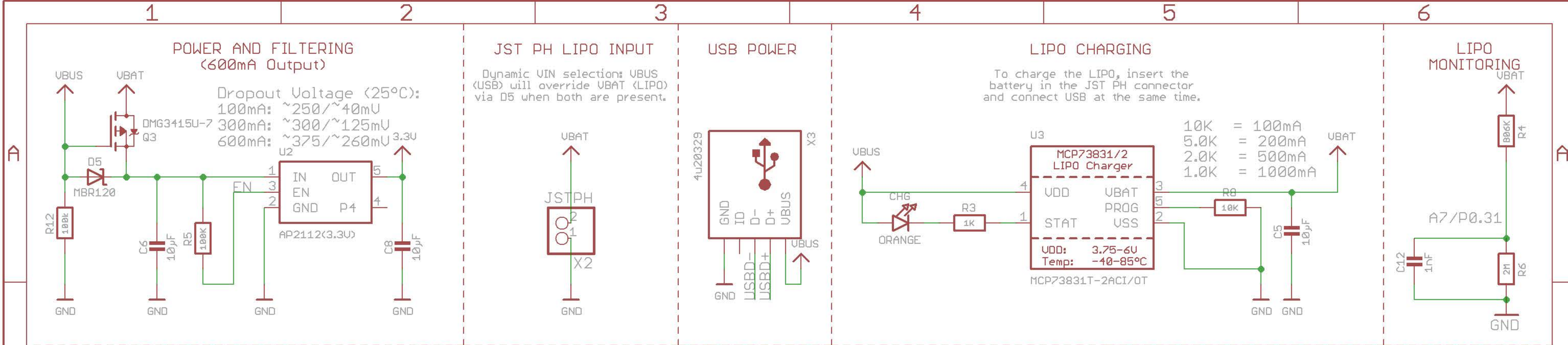


Maximum voltage:  $4.2\text{ V} * (2\text{ M}/(0.8\text{ M}+2\text{ M})) = 3\text{ U}$   
Minimum voltage:  $2.7\text{ V} * (2\text{ M}/(0.8\text{ M}+2\text{ M})) = 1.93\text{ U}$   
ADC value at  $4.2\text{ V}$  - 12 bit setup:  $3\text{ U} * (1/5) / 0.6\text{ U} * 4095 = 4095$   
ADC value at  $2.7\text{ V}$  - 12 bit setup:  $1.93\text{ U} * (1/5) / 0.6\text{ U} * 4095 = 2634$   
Usable ADC resolution - 12 bit setup:  $4095 - 2634 = 1461$



ISSUE	<b>ADAFRUIT INDUSTRIES</b>		© 2015
DRAWN	KTOWN		REV
CHECKED	>CHECKED		F
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>DATE	FILE: Feather_Mynewt_BLE_REV-F		>DRGNO
			PAGE: 1/1

# feather

## nRF52

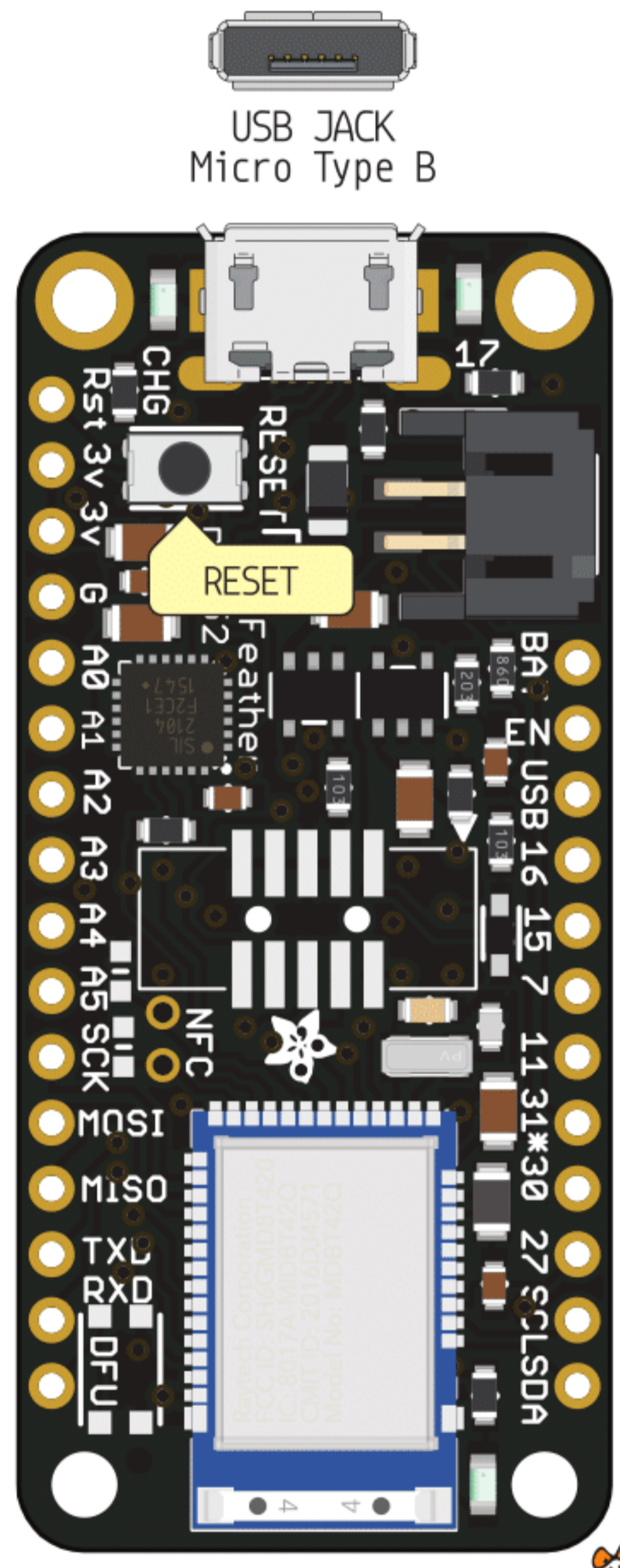
### PINOUT

- Power
- GND
- Physical PIN
- Port PIN
- Analog PIN
- Serial PIN
- PIN Function
- Interrupt PIN
- Control PIN
- IDE

PWM Pin

For 0.28 and 0.29 pin recommended Low drive, low frequency I/O only

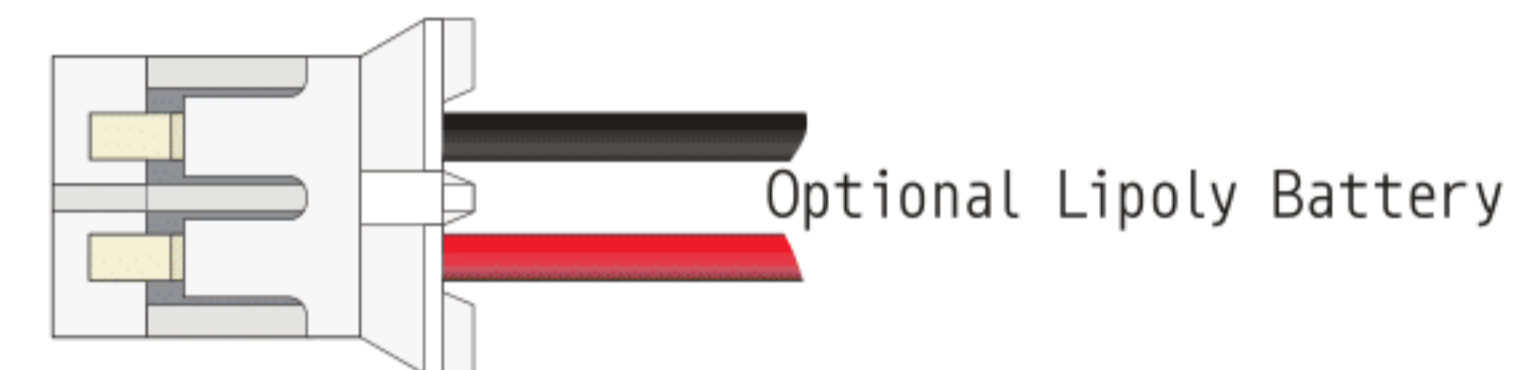
2 A0	AIN0	0.02	15
3 A1	AIN1	0.03	16
4 A2	AIN2	0.04	17
5 A3	AIN3	0.05	18
28 A4	AIN4	0.28	5
29 A5	AIN5	0.29	6
12	SCK	0.12	26
13	MOSI	0.13	27
14	MISO TD[3]	0.14	28
8	RX	0.08	21
6	TX	0.06	19
20	DFU	0.20	34



- Any GPIO pin can be configured as a PWM output
- Any GPIO pin support interrupts

Extra Functions

23	0.10	10	NFC2
22	0.09	9	NFC1
33	0.19	19	LED2
31	0.17	17	LED1



Connect to ground to disable the 3.3V regulator

30	0.16	TD[1]	16
29	0.15	TD[2]	15
20	0.07		7
25	0.11		11
31	0.31	AIN7	31 A7
7	0.30	AIN6	30 A6
4	0.27		27
3	0.26	SCL	26
2	0.25	SDA	25

Avoid using this pin directly Used to measure the LiPo battery level

**Absolute** MAX per pin 10mA, 5mA recommended

**Absolute** MAX 30mA for the entire package

**VBUS** Connected to 5V USB Port **Absolute** MAX 500mA

**VBAT** It's the positive voltage from to JST Batt jack

**3V3** 3V3 output from regulator **Absolute** MAX 400mA

# BLUEFRUIT NRF52 FEATHER PINOUT

PIN\_LED1 / P0.17

