# feather PINOUT
## M4 Express

### On-Board Components

**QSPI FLASH Memory**

| | | | |
|---|---|---|---|
| 34 | S4:2 | TC5:0 | PB10 I10 |
| 35 | S4:3 | TC5:1 | PB11 I11 |
| 36 | S0:0 | TCC0:0 TCC1:4 Q_CS | PA08 NMI |
| 37 | S0:1 | TCC0:1 TCC1:5 Q_IO0 | PA09 I9 |
| 38 | S0:2 | TCC0:2 TCC1:6 Q_IO1 | PA10 I10 |
| 39 | S0:3 | TCC0:3 TCC1:7 Q_IO2 | PA11 I11 |
| 10 Q_SCK | | | |
| Q_IO3 | | | |

20 A6

**Battery Voltage Divider**

| | | |
|---|---|---|
| S5:3 | TC7:1 | PB01 I1 |

**Built-In NeoPixel**

| | | |
|---|---|---|
| S5:1 | TC6:1 | PB03 I3 |

8

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**Optional LiPoly Battery**

VBAT  
EN  
VUSB

ℹ Connect to GND to disable 3.3V regulator

| | | | |
|---|---|---|---|
| 13 | S3:1 | TC4:1 TCC1:7 TCC0:3 | PA23 I7 |
| 12 | S3:0 | TC4:0 TCC1:6 TCC0:2 | PA22 I6 |
| 11 | S5:3 | TCC1:5 TCC0:1 | PA21 I5 |
| 10 | S5:2 | TCC1:4 TCC0:0 | PA20 I4 |
| 9 | S1:3 | TCC3:1 TCC1:3 TCC0:0 | PA19 I3 |
| 6 | S1:2 | TCC3:0 TCC1:2 TCC0:6 | PA18 I2 |
| 5 | S1:0 | TCC2:0 TCC1:0 TCC0:4 | PA16 I0 |
| 22 | S2:1 | TC2:1 TCC0:7 TCC1:3 | SCL PA13 I13 |
| 21 | S2:0 | TC2:0 TCC0:6 TCC1:2 | SDA PA12 I12 |

I2SFS1  
I2SDI  
I2SDO  
I2SFS0

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**USB JACK Micro Type B**

RESET  
3V3  
GND

| | | | |
|---|---|---|---|
| | VREFA | | PA03 I3 |
| | S0:1 | TC0:1 | PA02 I2 |
| | S4:0 | TC4:0 | PA05 I5 |
| | S4:1 | TC4:1 | PB08 I8 |
| | S0:0 | TC0:0 | PB09 I9 |
| | S0:2 | TC1:0 | PA04 I4 |
| | S3:0 TC2:1 TCC1:1 | | PA06 I6 |
| | S5:3 TC1:1 TCC0:5 | | PA17 I1 |
| | S5:2 I2SMCK TCC3:1 TCC0:5 | | PB23 I7 |
| | S5:1 I2SCK TCC3:0 TCC0:4 | | PB22 I6 |
| | S5:0 TC3:0 TCC0:2 TCC1:2 | | PB17 I1 |
| | S4:2 TC3:0 TCC2:0 TCC1:2 | | PB16 I0 |
| | | | PA14 I14 |

3.3V Max ⚠

DAC0  
DAC1  

14 A0  
15 A1  
16 A2  
17 A3  
18 A4  
19 A5  

25 SCK  
24 MOSI  
23 MISO  
0 RX  
1 TX  
4

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### Legend

- Power
- GND
- Port Pin
- Interrupt
- Serial [SERCOM]:[PAD]
- Timer [TIMER]:[PAD]
- Pin Function
- Analog Output
- Control Pin
- IDE
- ∿ PWM Pin
- ● Power Supply

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**VUSB** Connected to 5V USB Port  
**ABSOLU** Max 500mA

**VBAT** Connected to Positive Terminal of LiPo Battery

**3V3** 3.3V output from regulator  
**ABSOLU** Max 400mA

⚠ **ABSOLU** Max per pin 10mA, 7mA Recommended

⚠ **ABSOLU** Max 130mA for the entire package

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🔆 https://www.adafruit.com/product/3857

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