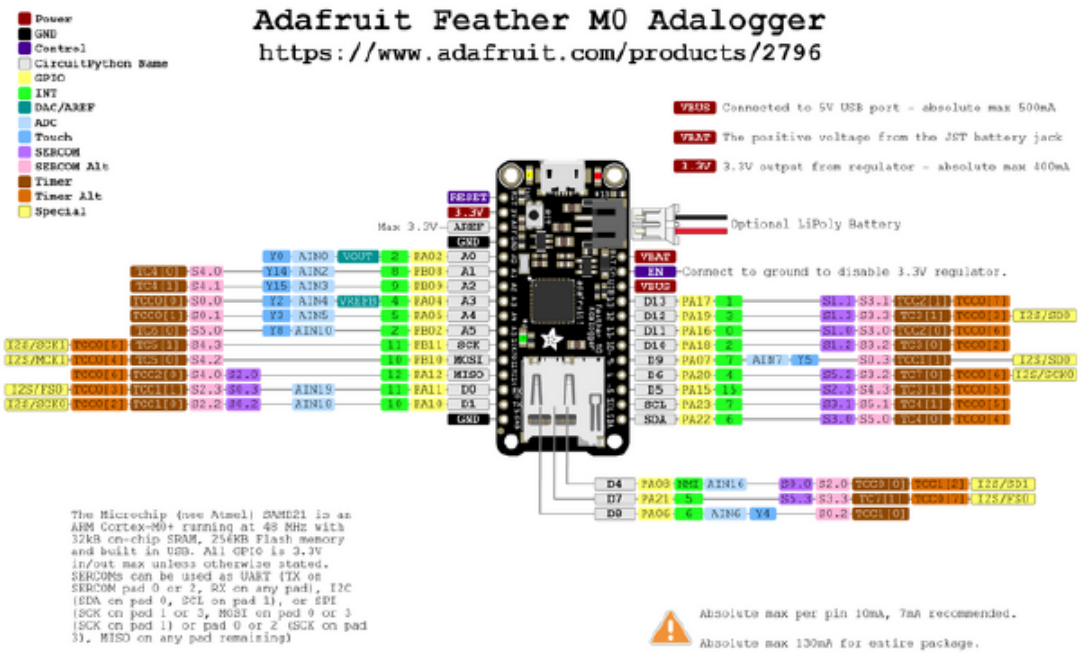
Adafruit Feather MOAdalogger

https://www.digikey.com/catalog/en/partgroup/feather-mo-adalogger/57885?utm_adgroup=Memory&utm_source=google&utm_medium=cpc&utm_campaign=Dynamic%20Search_EN_Product&utm_term=&utm_content=Memory&gclid=CjwKCAjwxZqSBhAHEiwASr9n9Ktg_sDCDdm035Mg_r83RoQiahAtE5Rw_IA8xD1mpDOyAhUgLwFKJhoCffEQAvD_BwE

48MHz and at 3.3V logic, the same one used in the new Arduino Zero

a) Processor Family (AVR, ARM, etc): **at the heart is an ATSAMD21G18 ARM cortex MO processor**
b) Bus width (bits) **32 bit**
c) Clock speed **48 MHz**
d) Memory (EEPROM, Flash, and SRAM separately): **256K of FLASH and 32K of RAM**
e) Number of I/O pins (digital, analog) **8 x PWM pins; 10 x analog inputs**
f) Logic level voltage (Can you run it off a 3.7V lithium battery? Can you power it directly from a 5V USB port?) **has 3.3V logic. connector for any of our 3.7V Lithium polymer batteries and built in battery charging. You don't need a battery, it will run just fine straight from the micro USB connector. But, if you do have a battery, you can take it on the go, then plug in the USB to recharge. The Feather will automatically switch over to USB power when its available. We also tied the battery thru a divider to an analog pin, so you can measure and monitor the battery voltage to detect when you need a recharge.**
g) Package styles available (crucially, can you hand-solder it?)
You can solder - you can add male or female headers

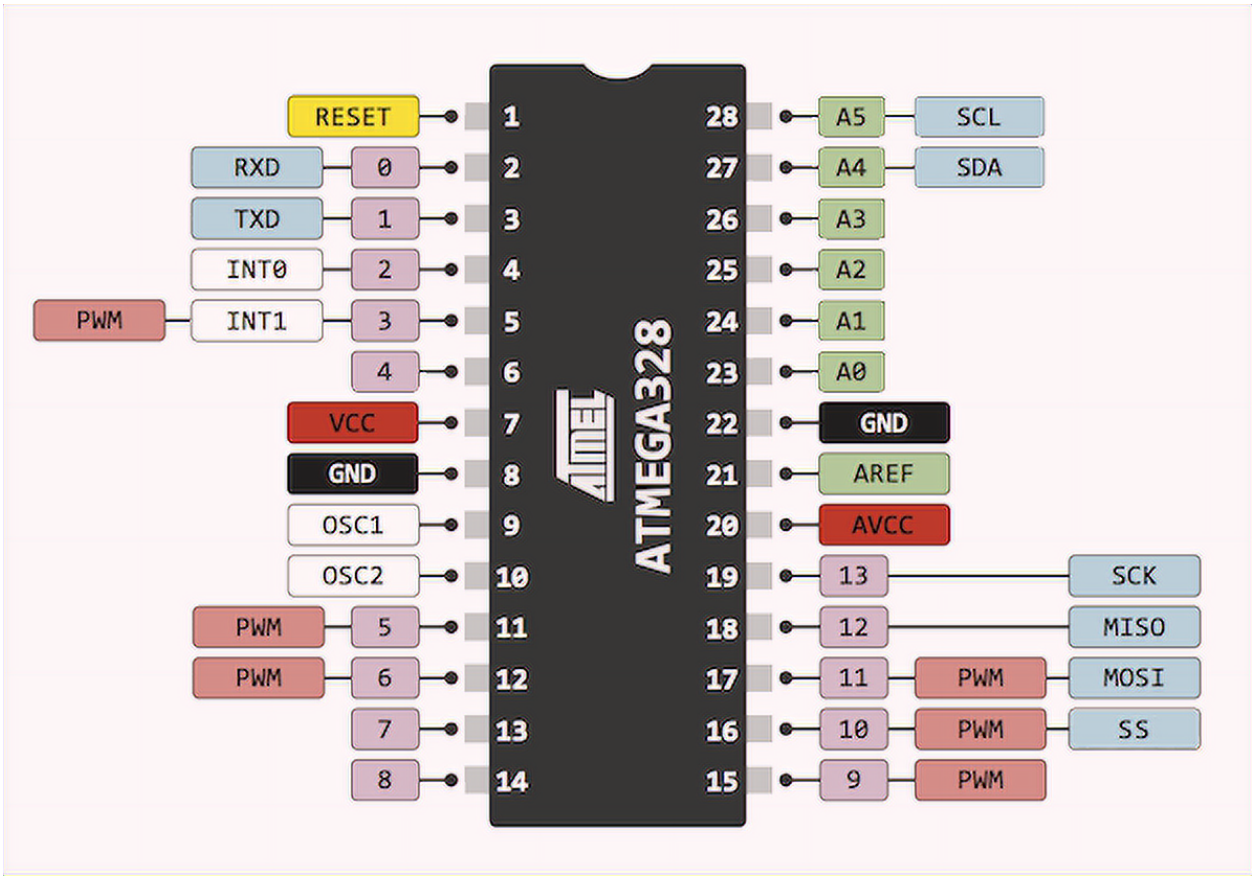


Adafruit pro trotricket

Processor Family (AVR, ARM, etc) Avr

a) Bus width (bits) 8
b) Clock speed 16 mhz
c) Memory in bytes: 32k flash, 1k eeprom, 2k Sram
d) Number of I/O pins (digital, analog) 32
e) Logic level voltage (Can you run it off a 3.7V lithium battery? Can you power it directly from a 5V USB port?) 5V
f) Package styles available (crucially, can you hand-solder it?) yes

2)


RESET
RXD
0
TXD
1
INT0
2
PWM
INT1
3
4
VCC
GND
OSC1
OSC2
PWM
5
PWM
6
7
8
1
2
3
4
5
6
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11
12
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ATMEGA328
28
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19
18
17
16
15
A5
SCL
A4
SDA
A3
A2
A1
A0
GND
AREF
AVCC
13
SCK
12
MISO
11
PWM
MOSI
10
PWM
SS
9
PWM