

# ItsyBitsy M0 Express

- for CircuitPython & Arduino IDE

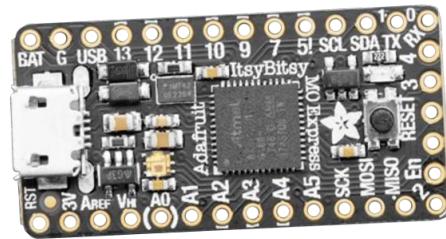
## Product Overview

08-23-2021

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## Description

Adafruit ItsyBitsy M0 Express is a microcontroller designed with ATSAMD21 Cortex M0 processor and offers multiple connectivity options. The M0 express microcontroller features a 32-bit processor running at 48MHz, six power pins, 23 digital GPIO pins, and 2MB SPI flash chip. The built-in 2MB SPI flash chip can be used for file storage, data logging, and CircuitPython code storage. The M0 Express does not require any compilers or installation as it can be used on any computer to build projects using Python programming language. The ItsyBitsy M0 Express is ideal for driving NeoPixels or DotStars on any pins.



## Features

- ATSAMD21 32-bit Cortex M0+ with 256KB Flash and 32KB RAM
- 3.3V logic, 48MHz, 32 bit processor
- 2MB SPI Flash chip for storing files and CircuitPython code storage
- Can be used with Arduino IDE or CircuitPython
- Native USB supported by every OS
- Built-in RGB DotStar LED
- 6 power pins
- 23 GPIOs:
  - 1x true analog output pin
  - 13x PWM outputs
  - 11x 12-bit analog inputs
  - 7x hardware capacitive touch sensors
  - 1x special  $V_{high}$  output pin
- Reset button and pin
- No installation, IDE, or compiler required
- 1.4" x 0.7" dimensions

## Mouser Part Number(s)

[485-3727](#)

To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-itsy-bitsy-m0-express/>