

Adafruit Feather M4 Express Microcontroller Board

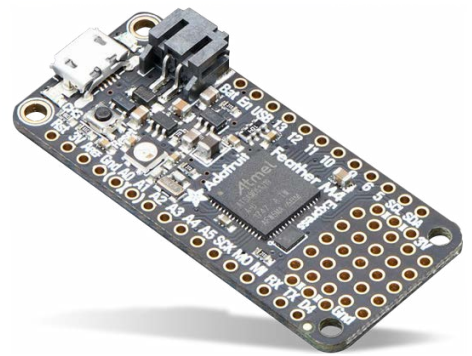
Product Overview

08-25-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

Adafruit Feather M4 Express Microcontroller Board is a fast and powerful board that features ATSAMD51J19 Cortex M4 processor running at 120MHz. This board delivers speedy performance with the Cortex M4 offering floating point support, 512KB flash, and 192KB RAM. The feather M4 express comes with 2MB of SPI flash built-in for data logging, file storage, or CircuitPython code. This board can be used with the Arduino IDE and is shipped with CircuitPython on board.



The feather M4 features 32.768 KHz crystal for clock generation, RTC, and built-in crypto engines with AES (25-bit), true RNG, and Pubkey controller. This board also features built-in 100mA LiPoly charger with charging status indicator LED and offers 2MB SPI FLASH chip for storing files and CircuitPython code storage. The feather M4 express microcontroller board is RoHS2 compliant.

Features

- [ATSAMD51](#) 32-bit Cortex M4 core running at 120MHz, 32-bit logic, and 3.3V power supply
- Hardware DSP and floating point support
- USB native support comes with USB bootloader and serial port debugging
- Built-in crypto engines with AES (25-bit), true RNG, and Pubkey controller
- Built-in 100mA LiPoly charger with charging status indicator LED
- Pin #13 red LED for general purpose blinking
- Power/enable pin
- Reset button
- No EEPROM
- RoHS2 compliant

Specifications

- 51mm x 23mm x 8mm dimensions
- 5g product weight
- 32.768KHz crystal for clock generation and RTC
- 3.3V regulator with 500mA peak current output
- 4 mounting holes
- 21 GPIO pins
- 512kB flash and 192kB RAM
- 2MB SPI FLASH chip for storing files and CircuitPython code storage

Mouser Part Number(s)

[View Part](#)

To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-feather-m4-express-mcu-board/>