METRO & METRO Mini 328

Development Boards
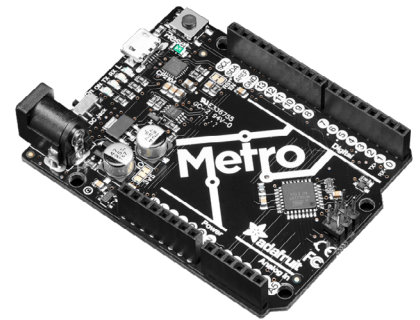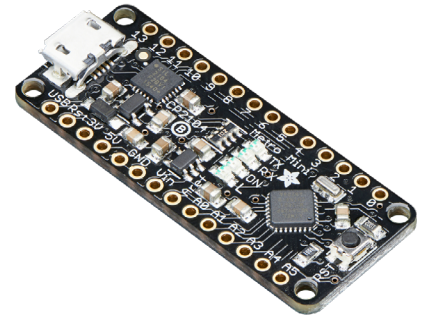
Product Overview

08-02-2021

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

Description

Adafruit METRO 328 is a fully assembled and tested microcontroller and physical computing board with through-hole headers attached. This board is easy to use and hacker-friendly. The board features an ATmega328 at the heart with 32KB of flash and 2KB of RAM running at 16MHz. The METRO 328 is compatible with "Classic" and "R3 shields" and features 6-pin ICSP header for reprogramming. This board is compatible with the Arduino IDE and runs the ATmega328P at 16MHz so it is shape and pin-compatible with Arduino UNO R3 shields and boards.

Adafruit METRO Mini 328 is a tiny and breadboard-friendly development board that is easy to use and hacker-friendly. This board features a USB-to-serial built-in and is used for smaller projects. The board can be programmed with the Arduino IDE. The Metro Mini 328 comes as a fully assembled and tested board with bootloader burned in and features a stick of 0.1" header.
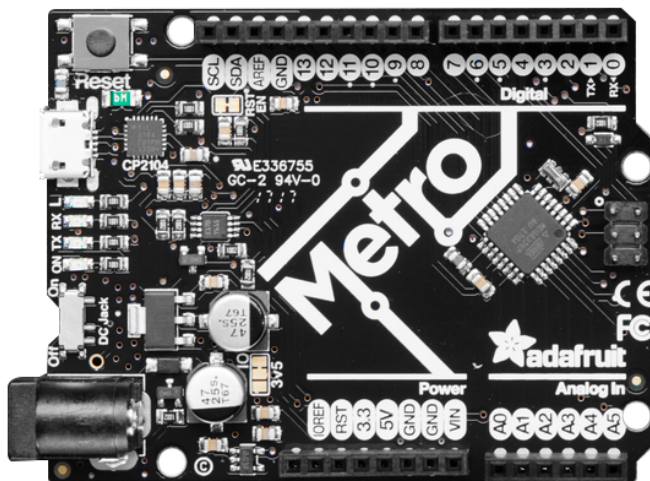

Specifications

- 32KB flash memory:
  - 0.5K for bootloader and 31.5KB available after boot loading
- 16MHz clock speed
- METRO 328:
  - 53mm x 71mm dimensions
  - 13mm height (w/barrel jack)
  - 19g weight
- METRO Mini 328:
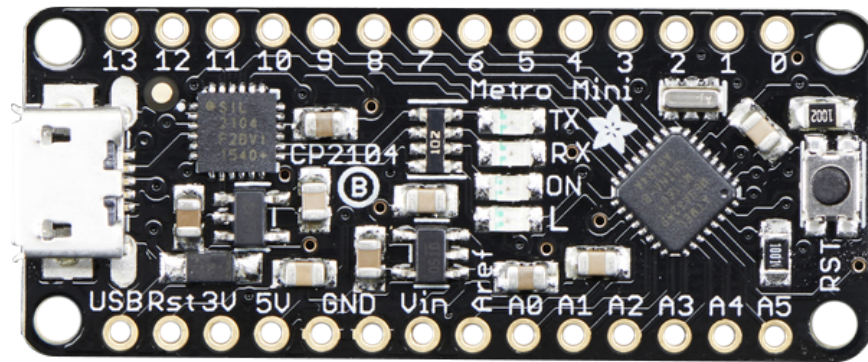 - 18mm x 44mm x 4mm
  - 3g weight

Features

- ATmega328 microcontroller with optiboot (UNO) bootloader
- 5V logic with 3.3V compatible inputs and can be converted to 3.3V logic operation
- 20 digital I/O pins:
    - 6 are also PWM outputs and 6 are also analog inputs
- Adafruit black PCB with gold plate on pads
- RoHS2 compliant
- METRO 328:
    - USB programming and debugging via the well-supported genuine CP2104
    - 7V to 9V supply voltage range (a $9V_{DC}$ power supply is recommended)
    - 5V regulator can supply peak 800mA (approximately) as long as the die temperature of the regulator does not exceed 150°C
    - 3.3V regulator can supply peak 150mA (approximately) as long as the die temp of the regulator does not exceed 150°C
    - 6-pin ICSP header for reprogramming
    - Compatible with "Classic" and "R3" shields
- METRO Mini 328:
    - USB programming and debugging via the well-supported genuine FTDI FT231X or the SiLabs CP2104
    - 6V to 16V input voltage range (a $9V_{DC}$ power supply is recommended)

Board Overview

METRO 328

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Mouser Part Number(s)

[View All Parts](#)

To learn more, visit https://www.mouser.com/new/adafruit/adafruit-metro-328/