

Pro Micro - RP2040

DEV-18288

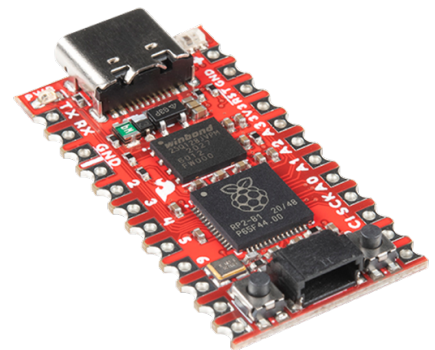
Product Overview

09/28/2022

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

Description

SparkFun Pro Micro - RP2040 is a low-cost and high-performance board with flexible digital interfaces featuring the Raspberry Pi Foundation's RP2040 microcontroller. This board also includes a WS2812B addressable LED, boot button, reset button, Qwiic connector, USB-C, resettable PTC fuse, and castellated pads. The RP2040 board utilizes dual Arm Cortex-M0+ processors (up to 133MHz) and features 264kB of embedded SRAM in six banks, six dedicated IO for SPI Flash (supporting XIP), and 30 multifunction GPIOs. This board is supported with both C/C++ and MicroPython cross-platform development environments, including easy access to runtime debugging. The built-in USB can act as both device and host. The RP2040 board has two symmetric cores and high internal bandwidth, making it useful for signal processing and video.



Features

- Raspberry Pi Foundation's RP2040 microcontroller
- AP2112 3.3V voltage regulator
- Supports programming languages:
 - MicroPython
 - C/C++
- Onboard USB-C connector for programming:
 - USB 1.1 host/device functionality
- Built-in resettable PTC fuse
- PTH pads with castellated edges
- 20x multifunctional GPIO pins:
 - 4x 12-bit ADC channels with internal temperature sensor, 0.5 MSa/s, 12-bit
 - 10x PWM channels
 - Serial peripherals:
 - 2x UARTs
 - 1x I2C (Qwiic enabled)
 - 1x SPI
- Buttons:
 - Boot
 - Reset

Features

- LEDs:
 - Power
 - WS2812 Addressable LED
- 16MB External Flash Memory
- Dimensions: 1.3in x 0.7in

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-rp2040-pro-micro-board/>