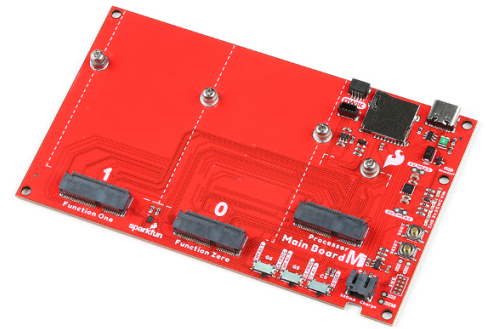# MicroMod Main Boards

Product Overview
1/18/2024
For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

SparkFun MicroMod Main Boards are specialized carrier boards that allow interfacing with a MicroMod processor board. These boards feature an M.2 MicroMod connector, making connecting the processor and function boards easy. The single and double main boards include one USB-C connector for power and programming the processor board. A jumper is available on the back of the board to isolate the USB C's shield pin. The MicroMod main boards include an onboard 3.3V/500mA voltage regulator to power the Qwiic-enabled devices. A microSD card socket is available for data logging and can be disabled through the I/O pins. Two Qwiic connectors are populated on the board with built-in pull-up resistors to add Qwiic-enabled I^2C devices to projects easily.

Features

- Input voltage range:
  - 5V via USB Type-C™ connector
  - ~3.7V to 4.2V via LiPo battery connector
- Built-in resettable PTC fuse (rated 5V/2A)
- AP7361C 3.3V voltage regulator (rated 1A)
- AP7347DQ 3.3V voltage regulator (rated 500mA)
- Integrated MCP73831 single-cell LiPo charge circuit (rated 500mA)
- Ports
  - 1x USB Type C connector
  - 1x 2-pin JST connector
  - M.2 connectors:
    - 1x MicroMod processor board
    - 1x MicroMod function board (DEV-20748)
    - 2x MicroMod function boards (DEV-20595)
  - 2x Qwiic enabled I^2C
  - 1x microSD card socket
  - 1x SWD 2 x 5 header

- Jumpers:
  - USB
  - 5V
  - 3.3V
  - PTC
  - 3.3V EN
  - V_{IN} LED
  - 3.3V LED
  - Qwiic 3.3V LED
  - I^2C
  - Battery voltage divider
- Board dimensions:
  - 3.40" x 2.90" (DEV-20748)
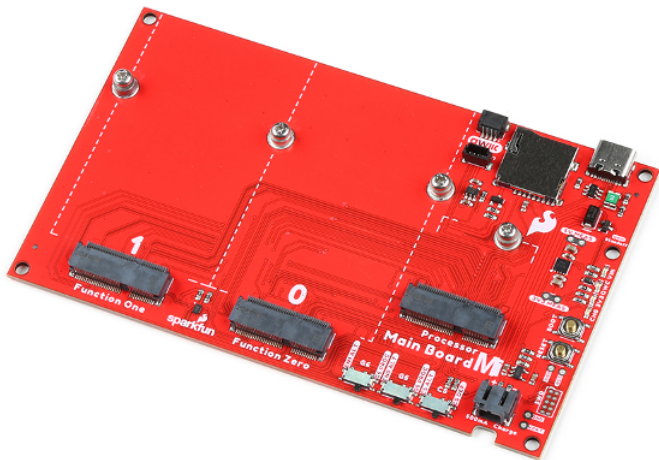 - 4.90" x 2.90" (DEV-20595)

Features

- Built-in MUX for UART1
- Buttons:
  - 1x reset
  - 1x boot
- LEDs:
  - 1x V_{IN}
  - 1x 3.3V
  - 1x Qwiic 3.3V
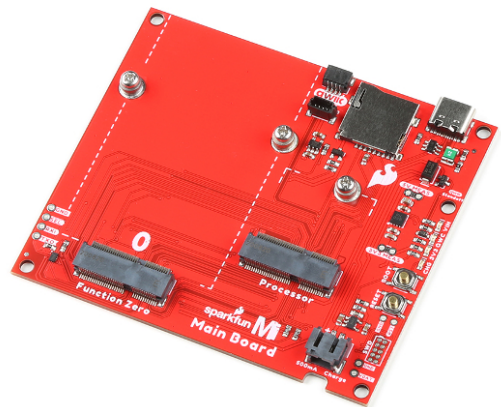 - 1x CHG

Kit Contents

- DEV-20595:
  - 1x MicroMod main board - double
  - 4x Phillips #0 M2.5mm x 3mm screws
- DEV-20748:
  - 1x MicroMod main board - single
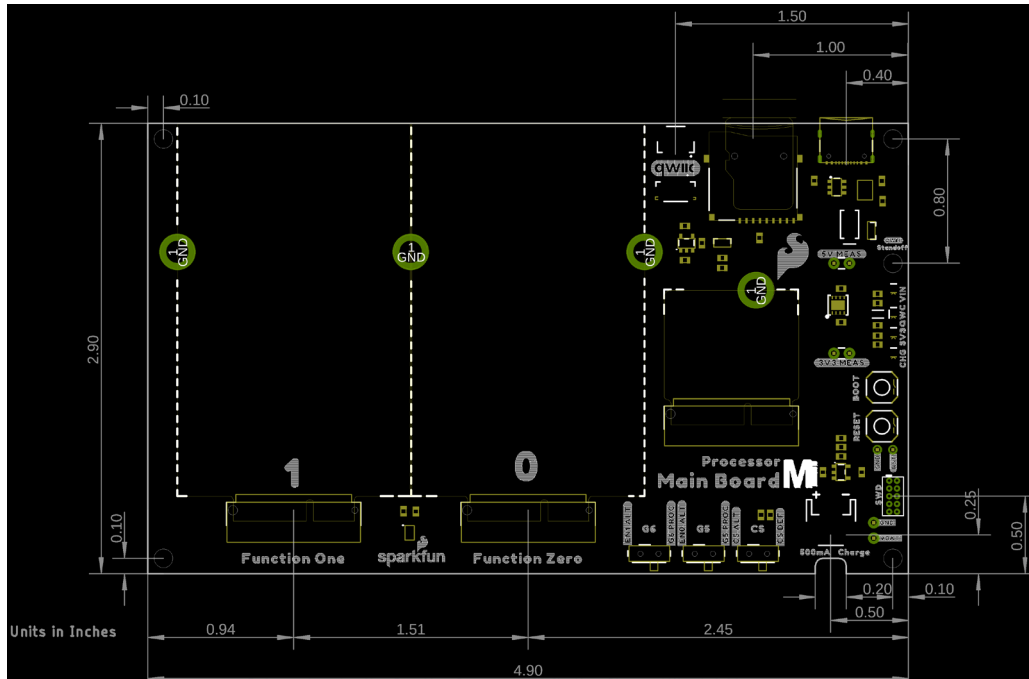 - 3x Phillips #0 M2.5mm x 3mm screws
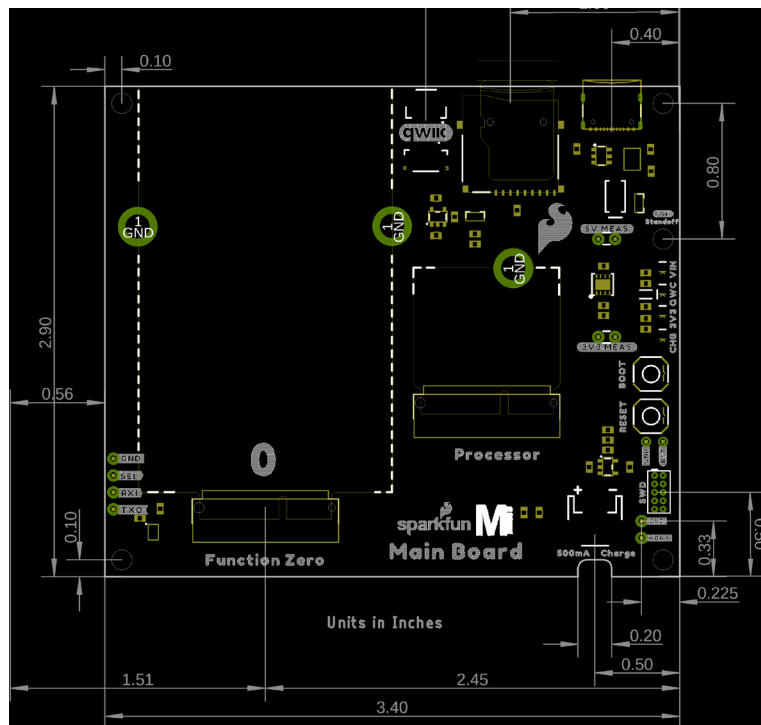
Board Overview

MicroMod Main Board - Single

MicroMod Main Board - Double

Board Dimensions

MicroMod Main Board - Single

MicroMod Main Board - Double

Mouser Part Numbers

View All Parts

To learn more, visit http://www.mouser.com/sparkfun-micromod-main-boards/