



# SparkFun MicroMod Qwiic Pro Kit

KIT-20407

The MicroMod Qwiic Pro Kit provides you with a MicroMod Carrier, a MicroMod Processor, two sensors, a joystick, an OLED Screen, and all the cables you need to start utilizing Qwiic and I2C easily. This kit was designed to allow users to get started with MicroMod and Qwiic without the need for soldering or breadboarding. Hooking up a handful of inputs and outputs to a Carrier Board has never been so easy. Use the joystick, accelerometer, or proximity sensor, and one small display for outputting text, graphics, or even a microPong game.

The MicroMod Qwiic Carrier Board can be used to rapidly prototype with other Qwiic devices. The MicroMod M.2 socket provides users the freedom to experiment with any processor board in the MicroMod ecosystem. This board also features two Qwiic connectors and four 4-40 screw inserts to connect and mount Qwiic devices. We have paired the carrier board with the SAMD51 Processor for this kit. With a 32-bit ARM Cortex-M4F MCU, the SparkFun MicroMod SAMD51 Processor Board is one powerful microcontroller packaged on a small board! The board provides you with an economical and easy-to-use development platform if you're needing more power with minimal working space. With the M.2 MicroMod connector, connecting your SAMD51 Processor is a breeze. Simply match up the key on your processor's beveled edge connector to the key on the M.2 connector and secure it with a screw (included with all Carrier Boards). The SAMD51 is one of the most powerful and economical microcontrollers available so to be able to add it to your MicroMod Carrier Board is a huge advantage for your project. Included is a **0.8-meter reversible USB-C cable** in the kit as well.



But you won't just get a MicroMod Carrier Board and SAMD51 Processor, also included in the MicroMod Qwiic Pro Kit is a slew of sensor and accessory boards, as well. The **Qwiic Joystick** makes it easy to control things like graphics or motors. The **Qwiic Proximity sensor** can detect objects and motions (like a hand appearing/disappearing) up to 20 centimeters away. The **Qwiic 9DoF IMU** includes a triple-axis accelerometer, gyroscope, and magnetometer capable of measuring movement, tilt, orientation, electronic compass, and navigation. And last up, the **Qwiic OLED** is a 64x48 pixel white and black display that is easy to program for text and simple graphics.

The MicroMod Qwiic Pro Kit also includes a handful of Qwiic cables, numerous example sketches, and hookup guides available to get you started.

## Kit Contents

- 1x MicroMod Qwiic Carrier Board - Single
- 1x MicroMod SAMD51 Processor
- 1x Reversible USB A to USB C Cable - 0.8 Meter
- 1x MicroMod Screwdriver
- Inputs
  - 1x Qwiic Joystick
  - 1x Qwiic 9DoF IMU Sensor
  - 1x Qwiic Proximity Sensor (VCNL4040)
- Outputs
  - 1x Qwiic Micro OLED Display
- Qwiic Cables
  - 2x 50mm
  - 2x 100mm
  - 1x 200mm
  - 1x 500mm
  - 1x SparkFun Mini Screwdriver

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