

Hardware Kits

Assembled for Bud Lab Hackathon

Raspberry Pi 3 – Starter Kit

- [Raspberry Pi 3 Spec Page](#)
- [Raspberry Pi 3 Starter Kit Hookup Guide](#)

Kit Includes:

- [Raspberry Pi 3](#)
- [SparkFun Pi Wedge](#) (Preassembled)
- [SparkFun FTDI Basic Breakout - 3.3V](#)
- [Breadboard - Full-Size \(Bare\)](#)
- [Pi Tin for the Raspberry Pi - Black](#)
- [16GB microSD](#) (Preloaded with OS)
- [microSD USB Reader](#)
- Red, Blue, Yellow, and Green Tactile Buttons
- [Red, Blue, Yellow, and Green LEDs](#)
- [Resistor 330 Ohm 1/6 Watt PTH - 20 pack](#)
- [Raspberry Pi GPIO Ribbon Cable - 40-pin, 6"](#)
- [SparkFun USB Mini-B Cable - 6 Foot](#)
- [Wall Adapter Power Supply - 5.25V DC 2.4A \(USB Micro-B\)](#)
- [Jumper Wires Premium 6" M/F - 10 Pack](#)
- [Jumper Wires Standard 7" M/M - 30 Pack](#)



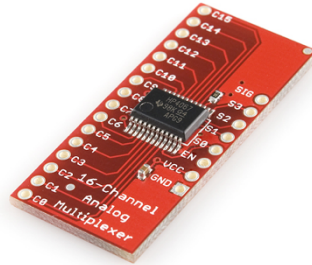
Documents:

- [Datasheet](#)
- [Hookup Guide](#)
- [gPIo Tutorial](#)
- [Raspberry Pi SPI and I²C Tutorial](#)
- [Pi Wedge Guide](#)
- [Raspbian Download](#)
- [Pi Raspbian and DOOM Tutorial](#)

SparkFun Analog/Digital MUX Breakout – CD74HC4067

Documents:

- [Schematic](#)
- [Eagle Files](#)
- [Datasheet](#)
- [bildr blog - CD74HC4067](#)
- [GitHub](#)



Serial Enable 16x2 LCD – Red on Black 5v

Documents:

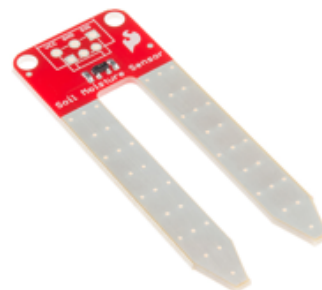
- [Schematic](#)
- [Eagle Files](#)
- [SerLCD v2.5 Datasheet](#)
- [Firmware](#)
- [Quickstart Guide](#)
- [Dimensional Drawing](#)
- [Detailed Drawing and Pinout](#)



SparkFun Soil Moisture Sensor

Documents:

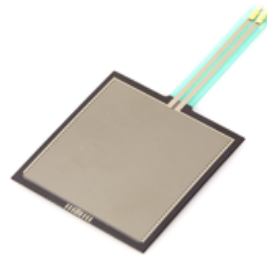
- [Schematic](#)
- [Eagle Files](#)
- [Hookup Guide](#)
- [GitHub](#)



Force Sensitive Resistor – Square

Documents:

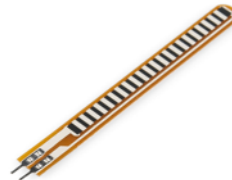
- [FSR Integration Guide](#)
- [Bildr Tutorial](#)



Flex Sensor 2.2"

Documents:

- [Datasheet](#)
- [ITP Sensor Workshop](#)
- [Quickstart Guide](#)
- [Bildr Tutorial](#)



Piezo Vibration Sensor – Large with Mass

Documents:

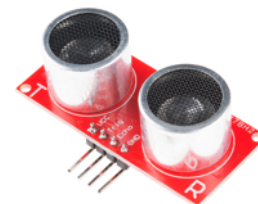
- [Datasheet](#) (LDT0-028K)
- [Hookup Guide](#)
- [Technical manual](#)



Ultrasonic Sensor HC-SR04

Documents:

- [Datasheet](#)
- [Example Code](#)



Humidity and Temperature Sensor – RHT03

Documents:

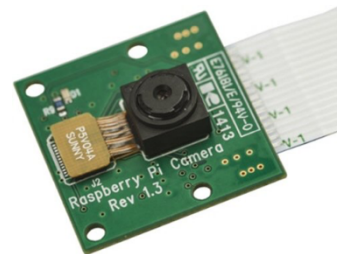
- [Datasheet](#)
- [Example Code](#)
- [GitHub](#)



Raspberry Pi 5mp Camera Board Module

Documents

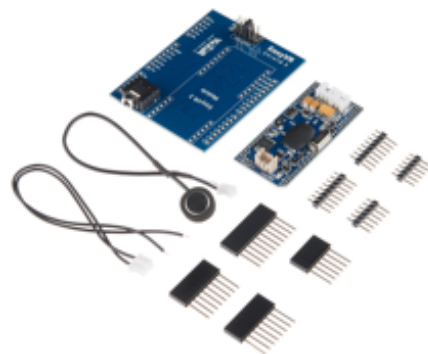
- [Camera Module Description and Example Usage](#)



EasyVR Shield 3.0 – Voice Recognition Shield

Documents:

- [User Manual](#)
- [Beginners Tutorial](#)
- [EasyVR Commander](#) (Windows only)
- [Arduino Library](#)
- [Product Page](#)
- [Downloads Page](#)
- [Product Video](#)



SparkFun Triple Axis Accelerometer Breakout – MMA8452Q

Documents:

- [Schematic](#)
- [Eagle Files](#)
- [Hookup Guide](#)
- [Datasheet](#) (MMA8452Q)
- [GitHub](#) (Design Files & Example Code)
- [GitHub](#) (Library)

