

# CRICKIT HAT for Raspberry Pi

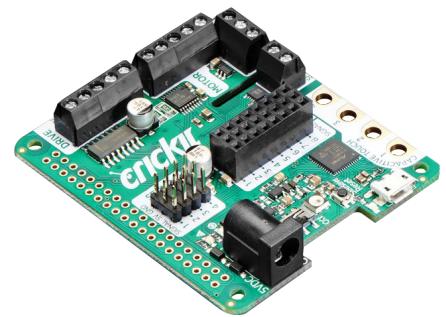
## Product Overview

08-30-2021

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

Adafruit CRICKIT HAT for Raspberry Pi is a Python-oriented HAT (Hardware Attached on Top) add-on for robotics that includes servos, motor control, drive outputs, touch inputs, NeoPixel driver, 3W amp, and solenoids. The Creative Robotics and Interactive Construction Kit HAT can be plugged into the Raspberry PI using the standard 2 x 20 GPIO connector. The CRICKIT HAT includes timers, Pulse Width Modulations (PWMS), and sensors that are off-loaded to the co-processor. The CRICKIT is powered by seesaw, I<sup>2</sup>C-to-bridge firmware and uses two I<sup>2</sup>C data pins to control inputs and outputs.



## Features

- CRICKIT HAT includes timers, PWM's, and sensors that are off-loaded to the co-processor
- Control of the motors, sensors, NeoPixels, capacitive touch, etc. is all done in Python 3
- Can be plugged into the Raspberry PI using the standard 2 x 20 GPIO connector
- Powered by seesaw, I<sup>2</sup>C-to-bridge firmware and uses two I<sup>2</sup>C data pins to control inputs and outputs
- Built-in USB-to-serial converter

## Kit Contains

- 4 x Analog or Digital servo control with precision 16-bit timers
- 2 x Bi-directional brushed DC motor control, 1A current-limited each, with 8-bit PWM speed control (or one stepper)
- 4 x High current “Darlington” 500mA drive outputs with kick-back diode protection
- 4 x Capacitive touch input sensors with alligator-pads
- 8 x Signal pins can be used as digital in/out or analog inputs
- 1 x NeoPixel driver with 5V level shifter
- 1 x Class D 4-8 ohm speaker and 3W-max audio amplifier

## Mouser Part Number(s)

[485-3957](#)

To learn more, visit <https://www.mouser.com/new/adafruit/adafruit-crickit-hat/>