



**Name:** SparkFun Top pHAT for Raspberry Pi

**Single Line Description:** Feeling Fancy? The SparkFun Top pHAT is the fundamental machine learning add-on for Raspberry Pi or any 2x20 GPIO SBC!

**SKU:** DEV-16301

**UPC/GTIN:** 845156010417

**Product Page URL:** <https://www.sparkfun.com/products/16301>

**HS Tariff Code:** 8542.39.0001 **ECCN:** EAR99

**MSRP:** \$49.95 **Distro Price:** \$40.00

**Information Under Embargo Until:** April 17, 2020

#### **Description:**

Feeling fancy? Why not add a Top pHAT to your Pi pHAT stack? The SparkFun Top pHAT for Raspberry Pi is intended to be at the top of a pHAT stack so you won't find any pins for stacking on top of this board, but that's ok, because you will want to preserve your view of the 2.4" TFT display, six RGB LED's and three switches squeezed onto this board!

Can you use the SparkFun Top pHAT to prototype machine learning on your Raspberry Pi 4, NVIDIA Jetson, Google Coral or another single-board computer? Indubitably! The SparkFun Top pHAT supports machine learning interactions including voice control with on-board microphones & speaker, graphical display for camera control feedback, and uninhibited access to the RPi camera connector. Additionally, you can use the programmable buttons, joystick, and RGB LED for user defined I/O, dynamic system interaction, or system status displays.

Can you use it as an interface to introduce your project to the SparkFun Qwiic ecosystem? Indeed! In addition to all the previous features, we have also included a Qwiic connector to allow easy integration over I2C. Billions of combinations of Qwiic-enabled boards are available to you to expand upon the capabilities of the SparkFun Top pHAT.

With all the I/O interaction on this board and the lack of soldering needed to get up and running, the SparkFun Top pHAT is the fundamental machine learning add-on for Raspberry Pi or any 2x20 GPIO SBC!

#### **Features:**

- A Raspberry Pi pHAT that focuses on user interaction with an SBC/RPi.
- Support for machine learning interactions
- Voice control (microphones, speaker)
- Graphical display on 2.4" color TFT
- Two Programmable buttons for user defined I/O
- Programmable Joystick – for dynamic/interaction with the system (GUI menus, robot driving).
- Programmable RGB LEDs – for system status, display, etc...
- Supports access to the SparkFun Qwiic ecosystem

#### **Documents:**

- *Documents released on planned Live date, April 17, 2020*