![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Button SHIM/PIM301

Button SHIM gives you five handy, physical buttons and an RGB status LED, and it's HAT and pHAT-compatible!

Our SHIM-format boards are designed to slip neatly onto your Pi's GPIO pins and still allow you to use HATs and pHATs at the same time. Or solder the included female header onto Button SHIM and use it as a standalone board. The buttons and status LED stick out from the top edge of your Pi, making them easy to access.

Use Button SHIM to add physical interaction and visual feedback to your project. It makes the perfect controller for our LED boards like Unicorn pHAT, Mote, and Blinkt! Or why not use it with Four Letter pHAT to turn your Pi into a proper alarm clock, or stopwatch/timer?

Features

- 5x tactile, right-angle push buttons
- Single RGB LED (APA102)
- Buttons driven through an IO expander (TCA9554A)
- Super-slim SHIM-format board
- 0.8mm thick PCB
- Can be used with HATs and pHATs
- Button SHIM pinout
- Compatible with Raspberry Pi 3, 2, B+, A+, Zero, and Zero W
- Python library
- 2x20 female header included
- **Requires soldering**

Because we've used an IO expander to read the button states and drive the LED, you'll still have full access to all of your Pi's pins, assuming the I2C address (0x3f) doesn't clash.

Software

We've put together a one-line-installer to install the Button SHIM Python library. You'll be up-and-running in a jiffy! There's even a few nice example programs showing how to use Button SHIM to control your Pi's audio, how to control the status LED, and how to mimic key presses.

To install the software, open a terminal and type `curl https://get.pimoroni.com/buttonshim | bash` to run the one-line-installer.

Our software does not support Raspbian Wheezy.

Notes

- It's important to install Button SHIM the correct way round, with the buttons facing outwards from your Pi, and the buttons on the top (check the photos on this page if you're unsure)
- Board dimensions: 65x13x4.5mm (WxHxD, depth includes buttons)
- Button dimensions: 7x3.5x3.75 (WxHxD)