



Snap-on bracket with tactile switch for Malolo's snap fit Raspberry Pi 3 Case (OctoPrint GPIO shutdown button)



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Summary

An add-on to Malolo's snap fit Raspberry Pi 3B case: a bracket between HDMI and GPIO-header, holding a tactile switch.

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Tags: [switch](#) [bracket](#) [malolo](#) [raspberrypi3bplus](#) [tactile](#)
[gpioshutdown](#)

I am using OctoPrints plugin 'GPIO Shutdown', for that a separate button is used to turn off OctoPrint.

Since the Raspberry Pi (3B+) is fixed to the frame of my printer and I didn't want a loose swinging button, I made a frame that is clamped between the GPIO header and the HDMI output of Malolo's enclosure. The first and last 6 GPIO rows are still free to use.

Inside the holder is a 'tactile switch', in front of the switch an extra printed button. The button and bracket are sufficiently secure.

The PCB needs supports, I have turned off the supports inside the GPIO header.

Please note: the photos do not reflect the exact quality of the design, the first layers did not come out of the printer very well. I will photograph and upload a better print in due course.

Resources:

Malolo's screw-less / snap fit Raspberry Pi 3 Model B+ Case

<https://www.printables.com/model/4038-malolos-screw-less-snap-fit-raspberry-pi-3-model-b>

Tactile switch Panel Mount by morecat_lab

<https://www.thingiverse.com/thing:4138312>

Model files



malolo-snap-on-button_all-parts.3mf



malolo-snap-on-button_bracket.stl



malolo-snap-on-button_button.stl



malolo-snap-on-button_assembled.stl

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