



diy Macropad



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Summary

My first try at a DIY Macropad. It has host-swap support for both Choc and MX. Not perfect but a good start

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Welcome to my first try at a DIY Macropad. While it's far from perfect, it's a start.

Building your own is possible, though I wouldn't wholeheartedly recommend it unless you're are willing to make some sacrifices.

Hardware

My version is compatible with both Choc and MX switches using hot-swap sockets. As long as you solder the correct socket, you can easily swap your switches.

If you decide to build your own version make sure to solder the IO expander in the correct oriantation. In general it would be best to have the Fusion project open as a reference

I originally planned to make this Macropad wireless, but that ultimately didn't work out. I tried reflashing an HC-05 with firmware that should make

it HID compatible, but I couldn't get it to work. For this reason, most of the components are not necessary.

I would recomend printing the enclosure in PETG. It uses a clip fit with some thin walled clips which would end up breaking of if I tried using PLA.

Firmware

In terms of firmware, I was forced to create my own. It's currently missing a lot of features, but it's a work in progress.

I wasn't able to get KMK to work since I used an IO expander without a keyboard matrix. As I have never used KMK before, I wasn't able to configure it. However, if you're able to do it, I would love to hear your input. It should be possible.

For more information including a list of components check out my [GitHub repository](#).

Model files



housing_main-no-battery.3mf



housing_main.3mf



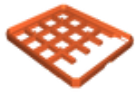
housing_faceplate-no-window.3mf



housing_bottom-no-battery.3mf



housing_bottom.3mf



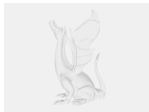
housing_main-mx-no-battery.3mf



housing_faceplate.3mf



electronics-design-v43.f3z



housing-choc-v16.f3z



housing-mx-v3.f3z

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