Printables by JOSEF PRUSA

Switchbox for Computer Peripherals

M.J. Caboose

VIEW IN BROWSER

updated 26. 1. 2021 | published 26. 1. 2021

Summary

I have some external Hard Disks, external optical drives and PC speakers on my desk.

Hobby & Makers > Electronics

Tags: electronics powerswitch peripheral

I have some external Hard Disks, external optical drives and PC speakers on my desk. It always was a hazzle with all the individual power supplies and switching them together even when only needing one device.
So I made use of my box template and created a 4 channel switch box for 5V and 12V including a master switch. To power all devices I reused an old PC ATX supply which has the juice to power all devices.

I have quite a lot USSR military grade connectors, so I made use of them :) .. together with some beefy switches and old indication lamp holders (upgraded to LED of course) I put everything in a printed box.

This is just an example since you most likely don't have the exact same components ... but I used parameters in my OpenSCAD files as much as it made sense to me. So everything can be adapted.

Print instructions

The box is printed in PRUSAMENT PLA "Army Green", which seemed to fit to the connectors and switches :) ....

Layer thicknes of 0.2mm with an 0.4mm nozzle worked out quite fine. Everything is printed on the PRUSA structured steel metal sheet with the Hilbert curve for the bottom layer, which gives a nice look and feel to the top and bottom of the box.

The wall and top plate thickness I've chosen with 3mm since the connectors and switches are quite robust.

I added some support structures for the big holes for the connectors, but depending on the filament used it may even work without.

Model files

switchbox_cover.scad

switchbox_main.scad

switchbox_cover.stl

switchbox_main.stl

Find source .stl files on Thingiverse.com

License

This work is licensed under a
Creative Commons (International License)

Public Domain

✔ | Sharing without ATTRIBUTION
✔ | Remix Culture allowed
✔ | Commercial Use
✔ | Free Cultural Works
✔ | Meets Open Definition