Modular USB Cable/ Charger Case, Gridfinity, Magnetic

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VIEW IN BROWSER

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Summary

Little Case with magnetic lid, modular gridfinity inserts, for chargers or USB cables

Hobby & Makers > Organizers

Tags: box organizer cable organiser support modular samsung storage charger phone ipad petg magnetic usb huawei travel interface induction tangle gridfinity ams

Packing Cables and Chargers is annoying, so I wanted to make it easier and also protect the charger prongs from being bent by being smushed in a bag.

Welcome to the Modular Gridfinity Cable and Accessories box!

This will fit up to 3x3 gridfinity modules (barring the height constraints), hold them in place with optional 6x2mm magnets, which are also less optional for the magnetic lid.

The lid isn't supposed to secure the whole thing during a skydiving or canyoning adventure, just to keep it closed during reasonable transport in a car or backpack that's not being tossed around.

And have a place to put your induction pad on, if you want that (just a small recess, not actually a clip or anything)

Printing Tips

- print inserts and lids with the magnet cutouts facing downwards.
- print with normal supports, auto, if possible PETG support interface with 0 distance, need to scratch it loose with a knife or something but it'll print beautifully

Assembly

The inserts, modelled after an ipad charger and a small charger as seen in the pictures fit into the gridfinity base in the box.

Magnets for those and the base are optional but useful.

Make sure to use a magnet applicator and pay attention to the orientation or you'll have to cut everything apart. I printed the magnet holes with 0.1mm clearance for 6x2 round magnets and addet a 0.2mm chamfer on the rim to make it a little easier.

Don't hammer them in, you'll break the print. :-)

Feel free to send me suggestions for other inserts or make your own with a gridfinity generator or just download some that work for you and are shallow enough

Roadmap

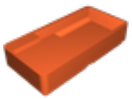
This is my first working prototype - next steps will include reducing the height and maybe think of a way to make the lid sit on the top a little more securely. Plans are in place, but if you need/want something quickly, feel free to start with this one :-)

Updates so far:

- increased thickness for magnet cutout walls for durability
- decreased box height to save space and remove chance for chargers tumbling about
- added insert for huawei and samsung chargers HW-090200EH0 and EP-TA800

Feel free to contact me do implement more stuff/ideas

Model files



ac-adapter-small-insert-2.stl

ipad-ac-adapter-insert.stl

ac-adapter-small-insert-1.stl

1x3-cable-holder-long.stl

magnetic-lidv2.stl

boxv3.stl

charger-and-cable-box-pla-w-support.3mf

charger-and-cable-box-pla-petg-support-interfacev21... .3mf

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