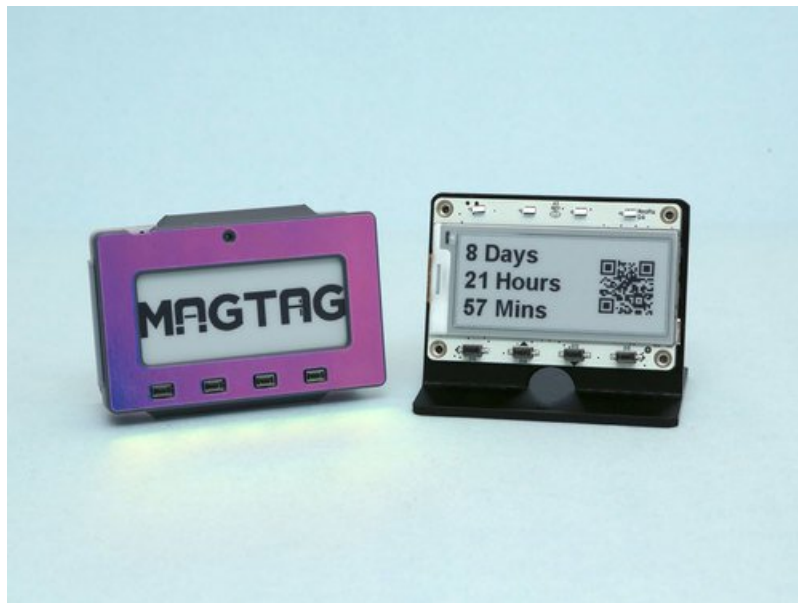


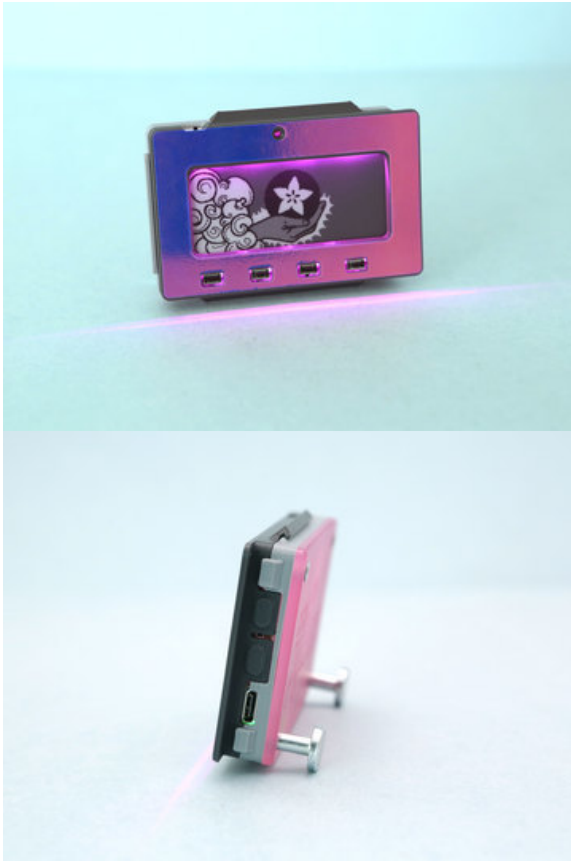
MagTag 3D Printed Stand Case

Created by Ruiz Brothers



Last updated on 2020-11-18 04:51:50 PM EST

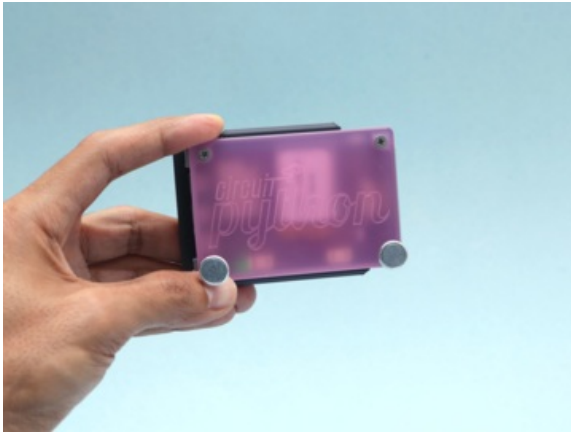
Overview



Snap Fit Case

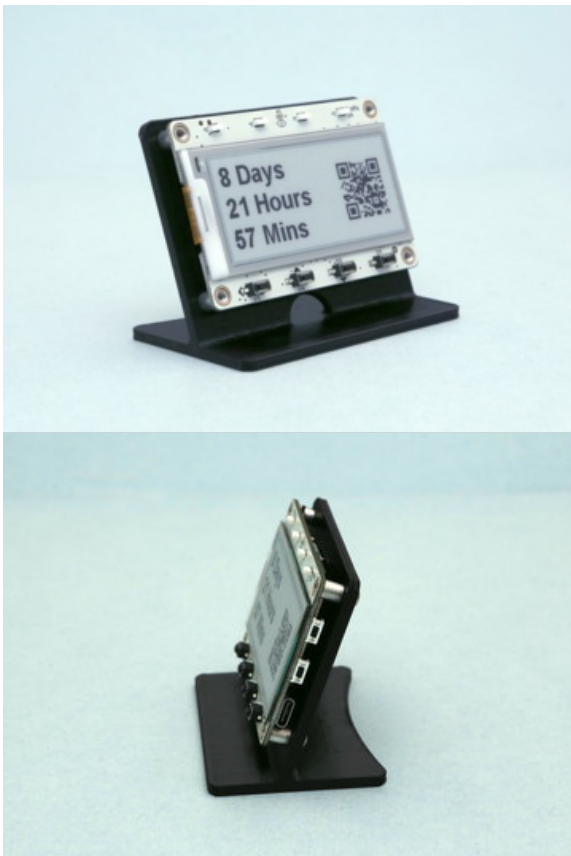
This case is designed to protect the Adafruit MagTag. It features cutouts for the four user buttons, USB-C, and on/off switch. The reset and DFU side buttons feature reliefs that allow the overlays to actuate the switches.

You may also use vinyl to create covers with beautifully glossy holographic decals.



Vinyl & Acrylic Upgrade

Have access to a CNC mill, vinyl or laser cutter? Use our SVG files to create custom decals, back and front faceplates.



Desktop Stand

Want to prop up the MagTag on your desk? This simple 3D printed stand mounts the MagTag at a 70 degree angle for perfect viewing. The wide bottom prevents the stand from tipping over. An hole in the lower center allows a STEMMA cable to pass through for connecting other I2C sensors.

Parts

Your browser does not support the video tag.

[Adafruit MagTag - 2.9" Grayscale E-Ink WiFi Display](#)

The Adafruit MagTag combines the new ESP32-S2 wireless module and a 2.9" grayscale E-Ink display to make a low-power IoT display that can show data on its screen even when power...

Out of Stock

Out of
Stock



[Mini Magnet Feet for RGB LED Matrices \(Pack of 4\)](#)

Got a glorious RGB Matrix project you want to mount and display in your workspace or home? If you have one of the matrix panels listed below, you'll need a pack of these...

\$2.50

In Stock

Add to Cart



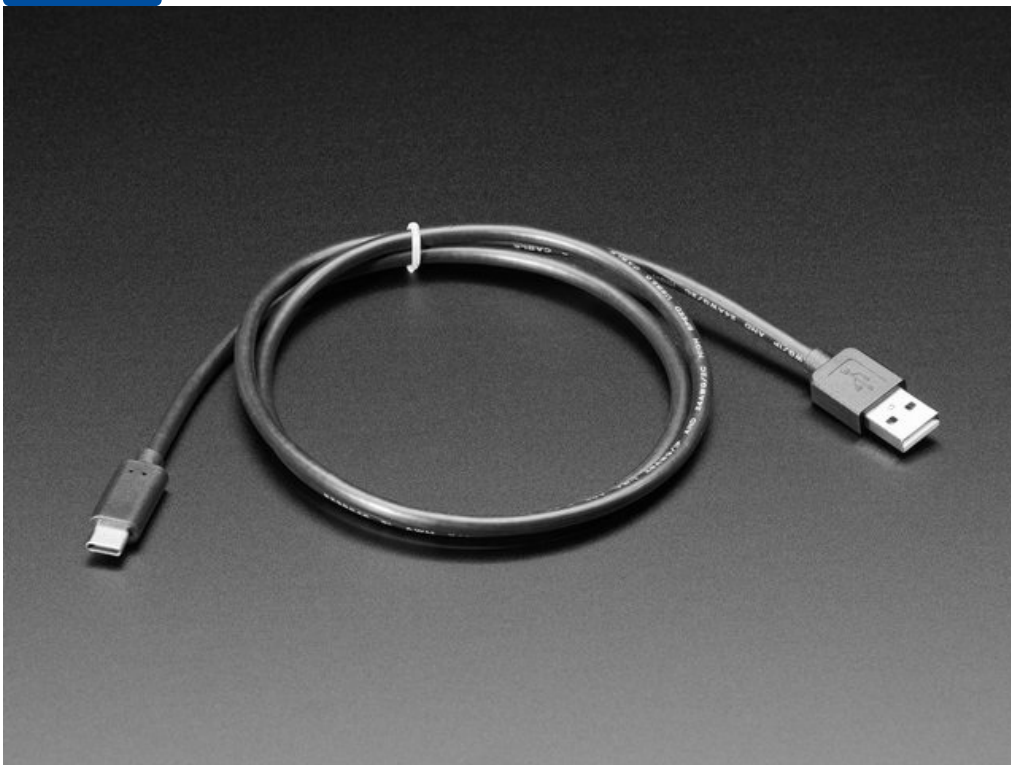
Lithium Ion Polymer Battery with Short Cable - 3.7V 420mAh

Lithium ion polymer (also known as 'lipo' or 'lipoly') batteries are thin, light and powerful. The output ranges from 4.2V when completely charged to 3.7V. This battery...

\$6.95

In Stock

Add to Cart



USB Type A to Type C Cable - approx 1 meter / 3 ft long

As technology changes and adapts, so does Adafruit. This USB Type A to Type C cable will help you with the transition to USB C, even if you're still...

\$4.95

In Stock

Add to Cart

3D Printing

Parts List

STL files for 3D printing are oriented to print "as-is" on FDM style machines. Parts are designed to 3D print without any support material. Original design source may be downloaded using the links below.



Case File names

- magtag-front-cover.stl
- magtag-back-cover.stl
- magtag-frame.stl

Stand File names

- magtag-stand.stl

SVG File names

- magtag-backcover.svg
- magtag-frontcover.svg
- magtag-viny-decal.svg

<https://adafru.it/OEF>

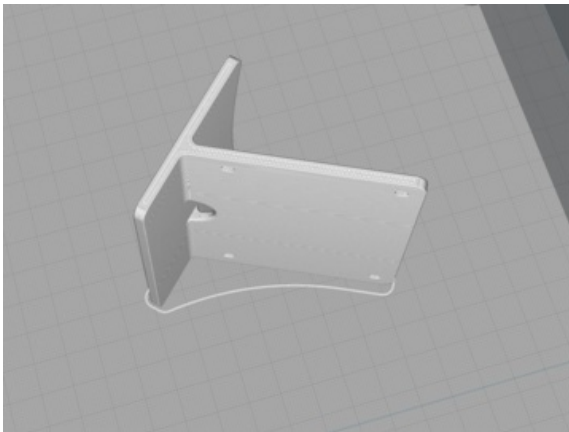
<https://adafru.it/OEF>

<https://adafru.it/OEG>

<https://adafru.it/OEG>

<https://adafru.it/OEI>

<https://adafru.it/OEI>

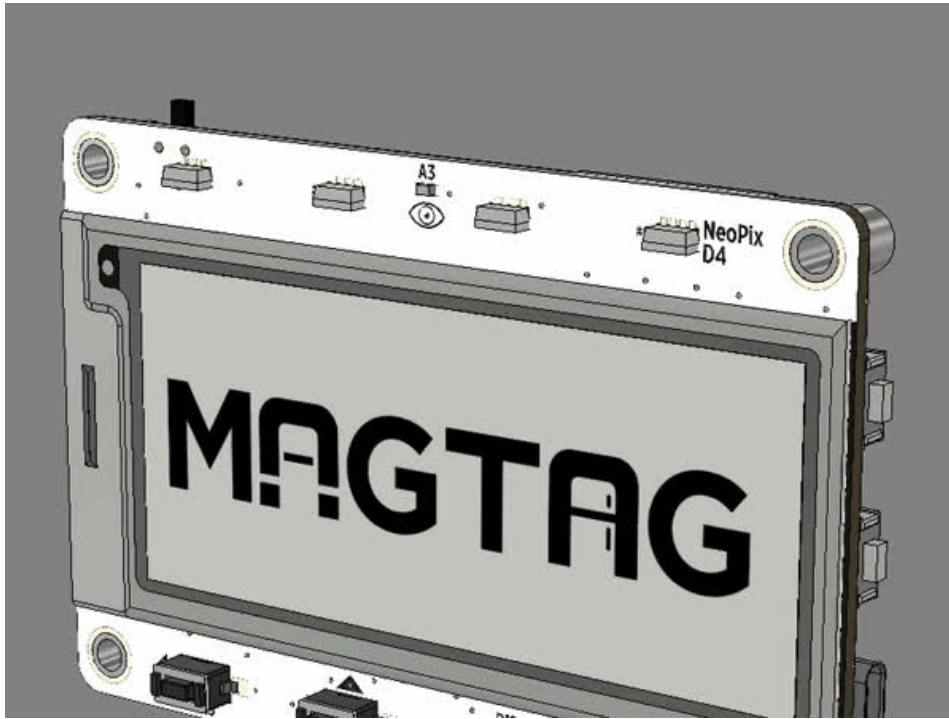


Slicing Parts

No supports are required. Slice with setting for PLA material.

The parts were sliced using CURA using the slice settings below.

- PLA filament 220c extruder
- 0.2 layer height
- 10% gyroid infill
- 60mm/s print speed
- 60c heated bed



Design Source Files

The project assembly was designed in Fusion 360.

This can be downloaded in different formats like STEP, STL and more. Electronic components like Adafruit's board, displays, connectors and more can be downloaded from the [Adafruit CAD parts GitHub Repo \(https://adafru.it/AW8\)](https://adafru.it/AW8).

Assembly

Case Assembly



Install Front Cover

Line up the four user buttons with the cutouts on the front cover. Place the PCB into the front cover and press so the pegs are fitted into the standoffs on the MagTag. Reference the photo for correct placement.



Install the battery and use double-sided scotch tape to stick the battery to the back of the MagTag. Right behind the silk screen graphics of the refrigerator is a good spot.



Install Frame

Orient the frame with the cover by lining up the side buttons with the opening on the frame. Insert the frame into the front cover and fit the edges into the snaps on the front cover. Press to snap fit together.



Secure Back Cover

Use 4x M3 thumb screws with magnets to secure the back cover to the frame. Place the back cover over the frame and line up the mounting holes. Insert and fasten the four screws.



Final Case Build

And there you have it! The case is ready to use. You can adorn the front cover with vinyl.

Stand Assembly



Screws for Stand

Use 4x M3 thumb screws with magnets to secure the MagTag PCB to the 3D printed stand. Place the MagTag over the stand and line up the mounting holes with the standoffs. Insert and fasten the M3 screws to secure the MagTag PCB to the stand.



Installed Battery (Optional)

You can use the 420mAh Lipo battery with the stand but it's not necessary. Use a USB-C type cable to power the MagTag or use the Lipo battery.



Final Stand Build

And there you have it! The MagTag is setup on a stand and ready for use.

