3D MODEL ONLY

Lilygo T-Deck TD1 Case by Alley Cat

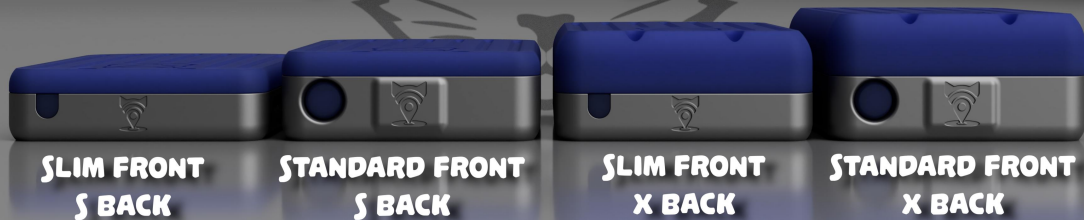**Alley Cat**

updated 16. 9. 2024 | published 16. 9. 2024

Summary

I made an enclosure for the Lilygo T-Deck. Videos in description. READ ALL OF THE DESCRIPTION!

Hobby & Makers   >   Electronics

Tags: case   lora   lilygo   cyberdeck   meshtastic   tdeck   alleychat

Commercial Use and Attribution Notice:

I personally do not sell anything, but you can order these from a couple of sellers online. I am not affiliated with these stores and do not make any money from them, but I have been in contact with the sellers and their quality and reviews are great. Here(US), here(US), or here(US).

Suggested Print Settings:

Material: **PLA+** or **PETG**
Nozzle: **0.4mm**
Extrusion Width **0.4mm**
Layer Height: **0.2mm**
Perimeters: **3**
Infill: **20%**

Top/Bottom Layers: **5**
Support Material: **None**

3D Printing Disclaimer:

Thank you for downloading my CAD design! I want to assure you that extensive testing and iteration went into creating this design. However, please keep in mind that 3D printing involves a wide range of variables, including different types of filament, printer settings, and calibration levels. These factors can significantly impact the final print.

Before concluding that the design is flawed, I encourage you to:

• **Check your printer calibration:** Ensure your printer is properly calibrated.

• **Adjust print settings:** Try changing the print settings to achieve better results.

• **Resize the model:** Scaling the model up or down slightly may resolve fit issues.

If you encounter any issues or need assistance, please feel free to reach out to me. I am here to help and can provide guidance to achieve the best results. Claiming a design is bad without considering these variables does a disservice to the community and may discourage others from trying a design that could work perfectly with minor adjustments.

Thank you for your understanding and cooperation. Happy printing!

Description:

Custom case for the Lilygo T-Deck. Very close tolerances, so you should clean up all the edges really well, **and don't force it, if it's too tight, print it slightly larger so you don't break your T-Deck and then try to blame me!** Only requires 2 M3x8 bolts and nuts. Maximum battery size with the standard front and back is 126090, but you can design different back covers to fits something bigger with the STEP file I have included in the Back folder. To use a thinner battery it would be a good idea to secure it so it doesn't wobble around.

Battery I used for the Slim Front with S Back: 5000mAh 706090

Battery I used for the Standard Front with S Back: 8000mAh 126090

What are all these options?

FRONT

Standard Front: Fits the stock speaker and a battery up to 12mm thick using the S back or 23mm thick with the X back.

Slim Front: Doesn't have a space for the stock speaker but you can get a 10mm x 3mm speaker that can fit in a slot at the top. Accepts a battery up to 7mm thick with the S back or 18mm with the X back.

Nuts: Uses M3x2.4mm nuts and M3x8mm screws to hold the back on.

Inserts: Uses M3x5mm heat set inserts and M3x8mm screws to hold the back on. Alternative insert options: this or this.

TBall: Has a cover over the center section between the keyboard and screen with an opening for the track ball.

GPS: Has a space for an optional switch to disconnect power to the GPS if desired.

Grove: Exposes the grove connector so you can access it externally.

BACK

S: This is the default back cover that works best with the lipo batteries I linked above.

X: This is a bigger back cover to fit thicker lipos or cell packs.

Plus 3: This back is even bigger and should be able to fit 18650 and possibly 21700 battery holders.

Inside Cat: Has the cat logo only on the inside if you want a more discrete look or you don't like cats.

Outside Cat: The cat is on the outside so you can show off my really cool logo.

Custom: This is the STEP file for the S back cover so you can make any custom back you want, if you share it, please remember to follow the CC license.

PARTS

Switch: This is the power switch, it should press in snugly and not fall out but still be able to slide smoothly.

Antenna Plug: Optional to cover the antenna hole if you use an internal antenna.

Reset Button: Optional if you need to access the reset button regularly, most likely only developers need this.

HOLSTER

Nuts: Designed to use a Baofeng UV5R clip or generic equivalent and M2.5x5mm screws with M2.5 nuts.

Inserts: Designed to use a Baofeng UV5R clip or generic equivalent and M2.5x5mm screws with M2.5 heat set inserts.

Cover: If you don't want a belt clip, just a cover to protect the display and keyboard, this is what you want.

Recommended GPS Modules

M10 Mini Amazon

M10 Mini Aliexpress

Mini M100 Amazon

Mini M100 Aliexpress

Videos:

Model files

	Front	18 files

alley-chat-td1-slim-front-nuts.stl
⬚ Uses M3x2.4mm nuts.

alley-chat-td1-slim-front-inserts.stl
⬚ 4.5mm hole for M3 heat set inserts.

alley-chat-td1-slim-front-tball-nuts.stl

alley-chat-td1-slim-front-tball-inserts.stl

alley-chat-td1-standard-front-nuts.stl

🗋 Uses M3x2.4mm nuts.

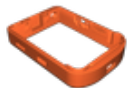**alley-chat-td1-standard-front-inserts.stl**

🗋 4.5mm hole for M3 heat set inserts.

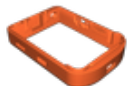**alley-chat-td1-standard-front-tball-nuts.stl**

alley-chat-td1-standard-front-tball-inserts.stl

alley-chat-td1-standard-front-gps-nuts.stl

🗋 Moved the GPS switch to allow the grove to stay.

alley-chat-td1-standard-front-gps-inserts.stl

🗋 Moved the GPS switch to allow the grove to stay.

alley-chat-td1-standard-front-tball-gps-nuts.stl

alley-chat-td1-standard-front-tball-gps-inserts.stl

alley-chat-td1-standard-front-grove-nuts.stl

🗋 Opened the grove connector.

alley-chat-td1-standard-front-grove-inserts.stl

🗋 Opened the grove connector.

alley-chat-td1-standard-front-gps-grove-nuts.stl

🗋 Moved the GPS switch and opened the grove connector.

alley-chat-td1-standard-front-gps-grove-inserts.stl

🗋 Moved the GPS switch and opened the grove connector.

alley-chat-td1-standard-front-tball-gps-grove-nuts.stl

alley-chat-td1-standard-front-tball-gps-grove-inser... .stl

📂 **Back**   7 files

alley-chat-td1-s-inside-cat-edition.stl

alley-chat-td1-s-outside-cat-edition.stl

alley-chat-td1-x-back-inside-cat-edition.stl

alley-chat-td1-x-back-outside-cat-edition.stl

alley-chat-td1-x-back-plus-3-inside-cat-edition.stl

🗋 I don't know why, but someone wanted an even fatter back...

alley-chat-td1-x-back-plus-3-outside-cat-edition.stl

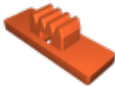🗋 I don't know why, but someone wanted an even fatter back...

alley-cat-tdeck-back-cover-custom.step

🗋 Use this to make a custom back. Attribution is still required!

📁 **Parts**   4 files
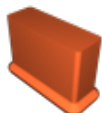
alley-chat-td1-switch.stl

alley-chat-td1-s-antenna-plug.stl

🗋 To use internal antenna with the S case.

alley-chat-td1-x-antenna-plug.stl

🗋 To use internal antenna with the X case.

alley-chat-td1-reset-button.stl

🗋 Super tiny and hard to print, if you aren't a dev you don't need it.

📁 **Holster**	6 files

	alley-chat-td-slim-cover.stl
	alley-chat-td-slim-holster-nuts.stl
	alley-chat-td-slim-holster-inserts.stl
	alley-chat-td-standard-cover.stl
	alley-chat-td-standard-holster-nuts.stl
	alley-chat-td-standard-holster-inserts.stl

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