Sidecar for Psion - Lipo powered PPP Wifi Modem and Terminal for RS232 devices

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VIEW IN BROWSER

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Summary

The Sidecar for Psion is portable PPP modem and Linux terminal for RS232 devices powered by a Raspberry Pi Zero.

Hobby & Makers > Electronics

Tags: pi raspberrypi zero modem rs232 psion

The Sidecar for Psion is portable PPP modem and linux terminal for RS232 devices powered by a Raspberry Pi Zero.

Required:

- Raspberry Pi Zero
- Pimoroni Lipo Amigo Pro
- Pimoroni Lipo Shim for Raspberry Pi
- Lipo Battery 2200mAh
- PiRS232 Board

White shown version is printed in Polymaker PolyTerra PLA Cotton White, 0.25mm DRAFT.
Silver version is printed in ColorFabb NGen Silver, 0.2mm QUALITY.

Button, Power Rest and Base are printed flat face to bed.
Lid is printed edge on, with painted on supports.

Suggest supports are cropped tight and painted sparingly if not using PLA, otherwise clean-up takes some time.
Layer boards using a single extended header as:
Bottom: Pi
Middle: Lipo Shim
Top: PiRS232

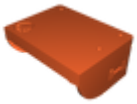
Use nylon supports and nuts to create a stable frame.

Attach Amigo Pro to Pi using 2-wire JST connectors, and connect battery to Amigo Pro in the same way.
Amigo Pro is screwed on to “Power Rest” using M2 screws, rested on the PiRS232 and then screwed in to the main case using one more M2 screw.
3 M3 brass inserts are melted carefully in to the main body and then the lid is attached to the main body with 2x M3 Round Headed 10mm hex bolts.
Details on configuring the software are available on my site.

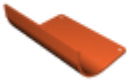
Model files

sidecar_button.stl

sidecar_powerrest.stl



sidecar_base.stl



sidecar_lid.stl

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