

ADS-B receiver case for Raspberry Pi 4B + RTL-SDR + filter

k kmetz

[VIEW IN BROWSER](#)

updated 20. 8. 2024 | published 20. 8. 2024

Summary

A compact, unobstrusive case for an ADS-B receiver.

[Hobby & Makers](#) > [Electronics](#)

Tags: [raspberrypi](#) [raspberrypicase](#) [raspberrypi4](#) [adsb](#) [rtlSDR](#) [sdr](#)

This fits:

- a Raspberry Pi 4B
- a Nooelec RTL-SDR v5 (or similar)
- a generic 1090 or 978 MHz filter module + SMA adapter

Hardware needed:

- 6 x M3 x 10mm screws (can be longer) for the lid
- 4 x M2.5 or M3 * 5mm screws for mounting the Pi (I used nylon screws)

It's a bit large but should fit most printers (maybe diagonally).

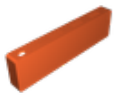
I've cut the printed threads with a M3 tap.

Passive cooling works reasonably well with a heatsink. Make sure to orient it correctly, fins vertical (my photo shows it wrong ;).

Update

Cyclone-6 made a customizable OpenSCAD version of the design: <https://www.printables.com/en/model/979301-reverse-engineered-ads-b-case-for-openscad>

Model files



adsb-pi4-case-v27.stl

 case



adsb-pi4-case-lid-v27.stl

 lid

License

This work is licensed under a
[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-nc-sa/4.0/)



Attribution—Noncommercial—Share Alike

-
- ✗ | Sharing without ATTRIBUTION
 - ✓ | Remix Culture allowed
 - ✗ | Commercial Use
 - ✗ | Free Cultural Works
 - ✗ | Meets Open Definition