



## FM-Poland / AllStar hotspot with OLED, Shari and Raspberry Pi 2 or 3

 Arek

[VIEW IN BROWSER](#)

updated 13. 7. 2024 | published 13. 7. 2024

### Summary

FM-Poland / AllStar hotspot using a Chinese Shari radio module, OLED display and Raspberry Pi 2 or 3

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

Tags: [raspberrypi](#) [hotspot](#) [allstar](#) [fmpoland](#) [shari](#)

Enclosure for:

- Raspberry Pi 2 / 3 in enclosure from aliexpress ( <https://pl.aliexpress.com/item/1005005872780987.html> )
- Shari SA818 radio module ( <https://pl.aliexpress.com/item/1005003245127518.html> )
- 1.3" OLED I2C screen ( already had one but these should fit - untested - <https://pl.aliexpress.com/item/1005006115101785.html> )
- two 10cm usb cables ( <https://pl.aliexpress.com/item/1005003659290814.html> )
- 2xM2.5 10mm
- wires for connecting rpi gpio with oled
- 4 small (~5mm diameter) silicone feet (with adhesive) from local shop

- LFCN490 filter added before antenna connector to suppress unwanted harmonics even more ( [https://wiki.fm-funknetz.de/doku.php?id=fm-funknetz:technik:shari-sa818#empfohlentieffpassfilter\\_zwischen\\_modul\\_und\\_antennenbuchse](https://wiki.fm-funknetz.de/doku.php?id=fm-funknetz:technik:shari-sa818#empfohlentieffpassfilter_zwischen_modul_und_antennenbuchse) )

For FM Poland HAM network I'm running <https://github.com/FM-POLAND/hotspot-rpi-image> software.

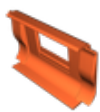
Printed from PETG (oled part with supports). OLED, after removing gold pins and soldering cables, glued to the printed part with a hot glue. 6mm hole made in enclosure for gpio-oled cables.

Fusion source CAD file is available.

20240703: more clearance for oled

**Thank you for your support.** If you found the project helpful, please [buy me a coffee](#) and see you in the next projects.

## Model files



**rpi-shari-mount-oled.stl**



**rpi-shari-mount-led.stl**



**rpi-shari-mount-usb.stl**



**alternative-shari-mount-without-oled-print-twice.stl**

**rpi-shari-mount.f3d**

# License ©

This work is licensed under a  
**Creative Commons (4.0 International License)**



## **Attribution-NonCommercial**

---

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