



Phone Dock

 **Vladimír Wlad**

[VIEW IN BROWSER](#)

updated 8. 10. 2026 | published 8. 10. 2026

Summary

Dock that turns an old phone into a powered Home Assistant panel. Galaxy Note 3 + parametric version.

[Gadgets](#) > [Other Gadgets](#)

Tags: [upcycle](#) [smartphone](#) [android](#) [homeassistant](#)
[smarthome](#)

Instead of letting an old phone gather dust in a drawer, I turned it into an always-on smart home control panel. The phone runs LineageOS with the Home Assistant dashboard and sits in a printed dock that also takes care of power delivery.

Inspiration: This design was inspired by The Stock Pot's video and Echo Show 5 enclosure: <https://www.youtube.com/watch?v=6p5wvVI957c> and <https://www.printables.com/model/1769972-amazon-echo-show-enclosure> (thanks, @TheStockPot!)

Two versions included:

1. **Original:** designed specifically for the Samsung Galaxy Note 3.
2. **Parametric:** based on version 1, with adjustable dimensions so you can fit your own phone. Source file included.

If you have a different phone, start with the parametric version. If you happen to have a Note 3, just print version 1 and go.

Print Settings

Printer	Voron 2.4
Layer height	0.2 mm
Nozzle	0.4 mm
Material	Any
Supports	[no]
Infill	[10 %]

Parts Needed

- Old Android phone (Galaxy Note 3 for version 1)
- MP1584 buck converter module
- USB-C power inlet
- Resistor: 10 k Ω (used to trick the phone's battery check)
- Capacitor: 1000-4700 μ F (to suppress voltage spikes), rated [voltage, e.g. 10 V or higher]
- Wire, plus [screws/inserts, if used]

Software

- **LineageOS** on the phone
- **Home Assistant** as the dashboard

Assembly Notes

1. Print the parts.
2. Wire the USB-C inlet to the MP1584 input.
3. **Set the MP1584 output to the correct voltage before connecting the phone** (check with a multimeter).
4. Solder the capacitor (1000-4700 μ F) across the MP1584 output to prevent voltage spikes. Observe polarity. Note: I'm not sure how necessary it is, but it's cheap insurance.

5. Fit the 10 kΩ resistor [between which pins, e.g. battery ID/thermistor pin and ground] so the phone's battery check is satisfied without a battery connected.
6. Connect the output to the phone's power pins, with correct polarity.
7. Mount the electronics in the dock and route the wires.
8. Place the phone in the dock.

Tips

- Always verify the MP1584 output voltage before connecting the phone, ideally under load.
- Check capacitor and power-pin polarity before powering on.
- [Battery handling: e.g. whether you removed the battery or limit charging in software]
- [Mounting: wall/desk]

Feel free to post a make or ask questions in the comments!

You can support me here: <https://ko-fi.com/wladt602>

Thanks! :)

This remix is based on



Amazon Echo Show Enclosure

by The Stock Pot

Model files

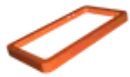


Note 3 - original design

5 files



volume_key_2.3mf



bezel.3mf



volume_key_1.3mf



foot_pad.3mf



enclosure.3mf



dock_parametric-v1.f3d

License

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



Attribution-NonCommercial

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