



OpenDTU Socket Outlet Enclosure



stritti

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Summary

Slightly over-engineered housing for OpenDTU which could be plugged directly to socket outlet (EURO-/ SCHUKO-plug).



2.82 hrs



2 pcs



0.20 mm



0.40 mm



PLA



70 g



Prusa MINI /
MINI+

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Tags: [case](#) [housing](#) [balkonsolar](#) [opendtu](#) [balkonkraftwerk](#)

This is a special case for the **OpenDTU** breakout board by blinkyparts.com which could be attached directly to a socket outlet (SCHUKO)

Printing instructions

Backside




- Material: PLA, PETG, ...
- Perimeter: 2
- Infill: 15%
- Supports: yes, I used organic support.

Front cover

Should be printed with front side on the bed.

- Material: PLA, PETG, ...
- Perimeter: 2
- Infill: 15%
- Supports: no

BoM

Quantity	Name	Picture	Link (example, no affiliate)
1	OpenDTU Breakoutboard by blinkyparts.com		https://shop.blinkyparts.com/en/OpenDTU-Breakoutboard-Your-evaluation-for-your-balcony-solar-system/blink237542
1	USB power supply unit		https://amzn.eu/d/0igDwA8U
1	USB Cabel		https://amzn.eu/d/02PisvVq

Assembly

1. First place the OLED-Display within the cover. See pictures.
2. Connect the display and the circuit board with the cables
3. Attach USB-C cable to circuit board
4. Clip the circuit board together with antenna board attached within the case. Pay attention that the LEDs are placed correct in the wholes. maybe you have to adjust them.
5. Pass external antenna through the whole and screw it on the base.
6. Push USB power supply in back element. Should be a little bit tight.
7. Attach USB-A of cable to the power supply.
8. Do a short test by plug in power socket and check if everything works and is connected correct.
9. At last step push backside into back of front part. It should snap in.

This remix is based on



OpenDTU Breakoutboard Case

by Timo



Schuko Adapter

by Max Mustermann

Model files



opendtu_cover.3mf



opendtu_backside.3mf

Print files



opendtu_backside_04n_02mm_pla_miniis_56m.bgcode

PLA 0.40 mm 0.20 mm 0.94 hrs 18 g Prusa MINI / MINI+



opendtu_cover_04n_02mm_pla_miniis_1h53m.bgcode

PLA 0.40 mm 0.20 mm 1.88 hrs 52 g Prusa MINI / MINI+

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