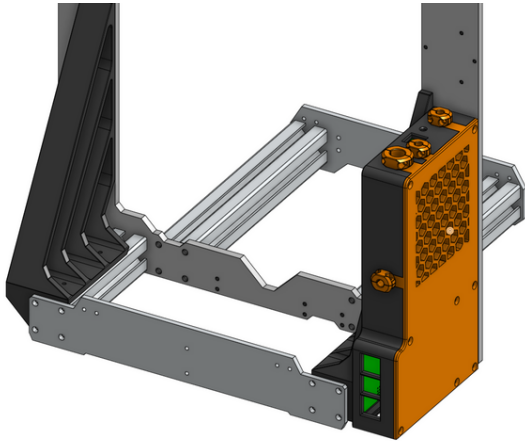




Prusa MK3/S Einsy Raspberry PI 4B/3B Enclosure with support Brace



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[VIEW IN BROWSER](#)

updated 2. 10. 2021 | published 12. 4. 2020

Summary

I've designed my own very strong PSU-Replacement-Brace (see my Prints) and decided to have the same one on the other...



35.65 hrs



5 pcs



0.20 mm
0.15 mm



0.40 mm



PET



533 g



Prusa
MK3S/S+ &
MMU2S

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I've designed my own very strong PSU-Replacement-Brace (see my Prints) and decided to have the same one on the other side.

Here's my new "from the scratch" Design for an EINSY Enclosure with Raspberry PI 4B (2B/3B) and Voltageregulator included. It's mounted to a stiff Brace and the Frame to give the Frame support on this side (right).

The Cover is variable to got some PI-HATs or Fan's into it. I'll use a GPIO Extension Board to connect my Enclosures Sensors, Lights etc.

The Brace fits (clicks) onto the Extrusion like the PSU-Replacement Brace. It is mounted with up to four T-Nut's to hold it secure in place.

With the included Flat Cover it is needed to modify the Heatbedplug (see Pictures). I've removed the end sleeve and use solder to get an L-Shape End.

What you need:

8x M3x8 + 8x M3 Nut's (Cablemounts)

4x M3x8 + 4x M3 Nut's (Raspberry)

2x M3x8 (Frame)

4x M3x8 + 4x M3 Nut's + some kind of (rubber)washer (Einsy)

Countersunk 3x M3x10 + 3 M3 Nylock Nut's (Brace to Enclosure)

Countersunk 8x M3x12 + 8 M3 Nut's (Cover)

4x M3x10 + 4x M3 Washer + 4x T-Nut 8mm M3 (optional + 4 to make it very strong) (Braces)

2x M4 Framescrew (use the original screws) + 2x M4 Nut

2x Ziptie's

ToDo: some different Cover version for Fanmount, more Space for Raspberry PI HAT's,...

Note:

You need longer Powercable if the Powersupply is mounted to the Frame !

Update 3.10.2019:

added some Pictures

Update 5.10.2019:

added Enclosure

Closed Cover

Closed Bottomcover

new Version of the Brace (easier mounting)

Cablemount Parts (6mm, 7,mm 12mm)

Update 14.10.2019:

added STEP-Files fully closed Cover and closed Cover for own mod's

added Cover with 40x40 Fan clip mount

Update 19.10.2019:

added Powercable Note (THX@Frederik)

Update 30.12.2019:

added STEP-Files Enclosure and Einsy Brace

Update 15.04.2020:

added Cover with 40x40 Fan screw mount

Update 17.04.2020:
added Cover addon parts for bigger HATs (THX@Mike)

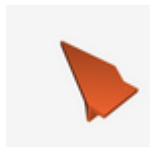
Print instructions

Use PETG (Prusament Orange)
0.2mm Layer for enclosure parts
0.15 for Cable mount parts
more Perimeter are better ;-)
10mm Brim for Enclosure and Braces

Model files



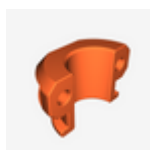
mk3-psu-brace.stl



mk3-einsy-brace.stl



cablemount-small-6mm.stl



cablemount-big-12mm.stl



cablemount-small-7mm.stl



closed-cover.stl



enclosure.stl



closed-bottomcover.stl



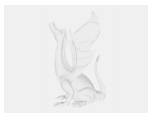
cover-with-40x40-fan.stl



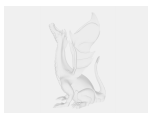
cover-with-40x40-fan_screw.stl



closed-cover.stl



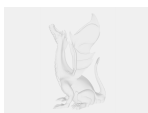
closed-cover.step



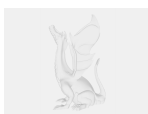
fully-closed-cover.step



fully-closed-cover.stl



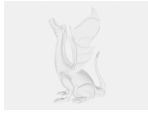
mk3-einsy-brace.step



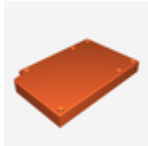
enclosure.step



mk3-psu-brace.step



coveraddon-bigger-hat.step



coveraddon-bigger-hat.stl



cover-for-addon-bigger-hat.stl



cover-for-addon-bigger-hat.step



cover-with-40x40-fan_screw.step

Print files



mk3-einsy-brace.gcode

⌘ PET ⌘ 0.40 mm ⌘ 0.20 mm ⌚ 6.88 hrs ⚖ 121 g

🖨 Prusa MK3S/S+ & MMU2S



mk3-psu-brace.gcode

⌘ PET ⌘ 0.40 mm ⌘ 0.20 mm ⌚ 12.04 hrs ⚖ 212 g

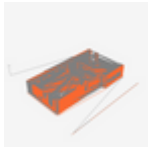
🖨 Prusa MK3S/S+ & MMU2S



all-cablemount-parts.gcode

⌘ PET ⌘ 0.40 mm ⌘ 0.15 mm ⌚ 1.64 hrs ⚖ 9 g

🖨 Prusa MK3S/S+ & MMU2S



enclosure.gcode

⌘ PET ⌘ 0.40 mm ⌘ 0.20 mm ⌚ 14.63 hrs ⚖ 184 g
🖨 Prusa MK3S/S+ & MMU2S



closed-bottomcover.gcode

⌘ PET ⌘ 0.40 mm ⌘ 0.20 mm ⌚ 0.46 hrs ⚖ 7 g
🖨 Prusa MK3S/S+ & MMU2S

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