



Orange Pi PC Case



N7 Cat

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updated 12. 10. 2022 | published 12. 10. 2022

Summary

This box is for the Orange Pi PC - it prints as two parts then snaps together after some minor assembly including...

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This box is for the Orange Pi PC - it prints as two parts then snaps together after some minor assembly including fusing of embedded nuts. It has integral mounts for a 40 mm fan. The heatsinks on the ram are probably not needed so are not included in the BOM below.

BOM:

- Orange Pi PC: (<https://www.aliexpress.com/item/32448079125.html>)
- Heatsink: (<https://www.aliexpress.com/item/32923450891.html>)
- 40mm 5V fan: (<https://www.aliexpress.com/item/32727867521.html>)
- M3 X 6 X 5.3 Embedded Nuts: (old link no longer works - possible substitution M3 X D5 X L6) <https://www.aliexpress.com/item/4000232858343.html>
- M3 X 16 Machine Screws: (<https://www.aliexpress.com/item/32798146322.html>)

Note from N7 Cat: "Oh hai ^.^ u can haz a smol box fur ur smol pc"

Update 8/29/2019 "iz 2 smol" - rev 2 has improved HDMI clearance

Print Settings

Printer Brand:

Creality

Printer:

Ender 3

Rafts:

Doesn't Matter

Supports:

Yes

Filament: Generic PETG

Notes:

I set supports for overhangs above 80 degrees (might vary depending on your slicer) you just need to support the big cut out for the data / USB connection opening - all other openings should bridge fine without supports.

Note the model is not upside down, it is meant to be printed in the as saved orientation (fan grill touching build plate).

Post-Printing



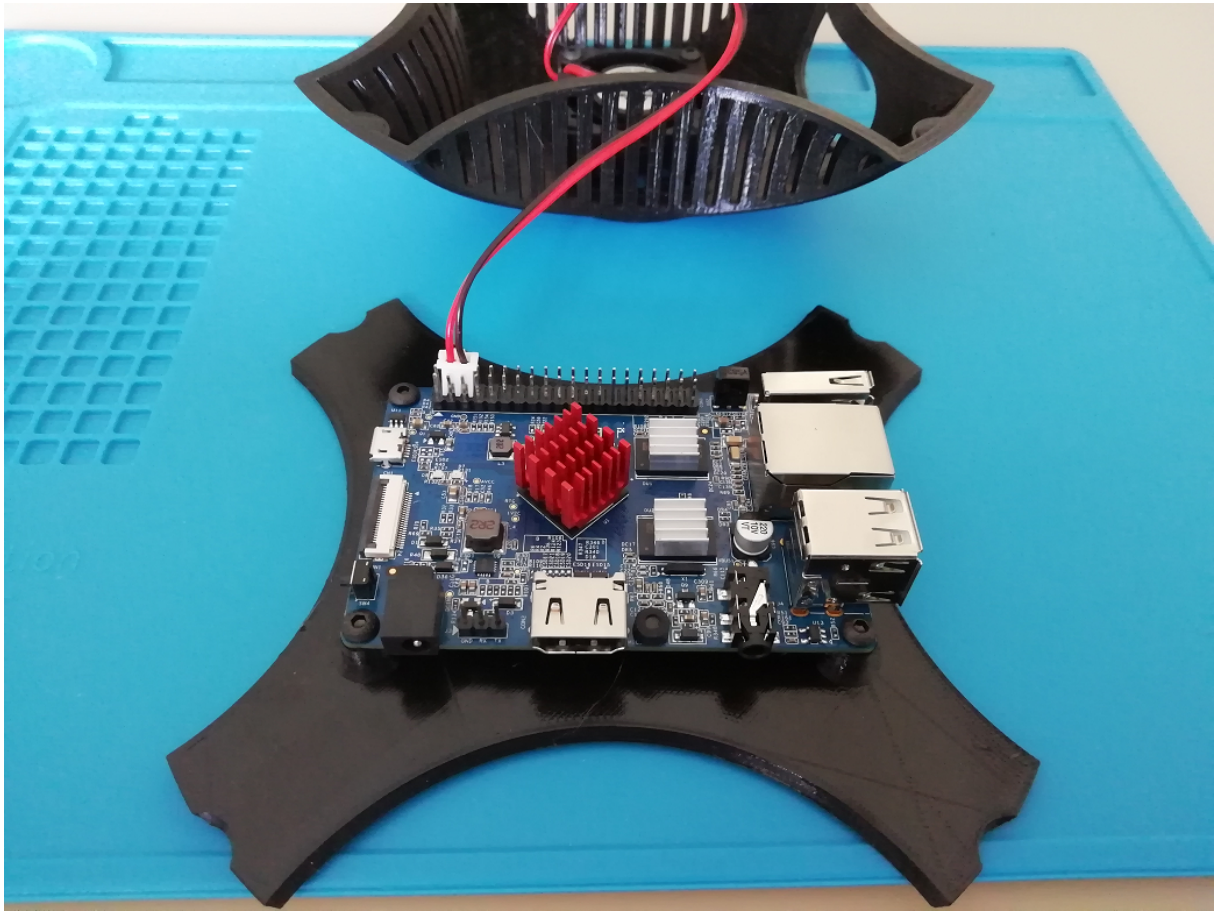
Secure M3 X 6 X 5.3 embedded nuts to cover using low temp soldering iron



Secure 40mm 5V fan to cover using M3 X 12 or M3 X 16 machine screws - note in this orientation fan blows down onto heatsinks



Secure M3 X 6 X 5.3 embedded nuts to base using low temp soldering iron



Secure Orange Pi PC to the base using M3 X 6 machine screws and close cover

Category: Electronics

Model files



cover_rev_2.stl



base_rev_2.stl

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com/thing/4444444)

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