



Raspberry Pi 400 Cyberdeck / Laptop



thebjtfellow

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Summary

This is the machine controller for the b-jetting Researcher and Educator. It's an RPi-400 paired with a 1280x720 9"HDMI

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This is a small laptop / cyberdeck case for the Raspberry Pi 400 paired with a Magedok 1280x720 9" HDMI Touchscreen. The parts are all 3d printed, though you do need additional hardware. NOTE: YOU NEED TO PRINT TWO NUTS!

With some minor mods, you could use an RPi keyboard and mount an RPi-4 to the back of the display, but those weren't available when I designed this. I included the part I created to represent the actual display. THIS DOES NOT NEED TO BE PRINTED!

The hardware: You need (4) M2.5x0.45mm, (8) M3x0.5, and (2) M5x0.8mm heat-set inserts. You'll also need (4) M2.5-0.45mmx4mm SHCS, (6) M3x0.5mmx4mm BHCS, (2) M3x0.5x20mmSHCS, and (2) M5x0.8x8mm SHCS

How to assemble and apply everything should be obvious from the photos.

I'm going to try and do some two color printing into the case and see if I can embed a logo in it. I hope you enjoy it!

I printed everything at .4mm nozzle, .2mm layers. I did use supports as needed for some of the holes, like the bolt holes on the base and display frame. 4 perimeters, 4 tops and bottoms, 25% infill (for me, anyway)

Model files



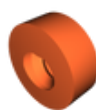
rpi-covers-magedok-display.stl



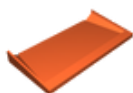
rpi-covers-rpi-case-adapter.stl



rpi-covers-display-frame.stl



rpi-covers-rpi-nut.stl



rpi-covers-rpi-case-base.stl



rpi-covers-rpi-right-bolt.stl



rpi-covers-display-bexel.stl



rpi-covers-rpi-left-bolt.stl



rpi-covers-rpi-kybd-slip.stl

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