64x32 LED Matrix w/ Pi Housing

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VIEW IN BROWSER

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Summary

This is a two-part housing for a cheap 64x32 LED matrix, including mounting for a Raspberry Pi 3A+...

Gadgets > Other Gadgets

Tags: led   raspberrypi   ledlight   thingiverse   adafruitledmatrix   ledmatrix

This is a two-part housing for a cheap 64x32 LED matrix, including mounting for a Raspberry Pi 3A+

BOM

- 1x 192x96mm LED panel like this one. Unfortunately, this listing makes no guarantee of screw hole locations, however I've ordered several panels and they have all been the same so far.
- 1x 198x102mm acrylic piece for the front.
- 1x Raspberry Pi 3A+
- 1x XT30 for power.
- 6x M3-10mm button-head screws.
- 2x M3 nuts.

Build Notes

- To get the Pi to fit, you will need to remove the large power connector and solder cables on directly.
- The Pi sits upside down, facing into the matrix.
- The Pi mount is offset a little bit to clear some capacitors if you are using a makeshift hat.
- The screws pass through the back casing, through the front casing, and into the LED matrix, holding the whole thing together.
- The acrylic piece should press fit in. You might need to sand it a little!
- Use this library to start displaying things: [rpi-rgb-led-matrix](https://github.com/hzeller/rpi-rgb-led-matrix/}.

Print Settings

Resolution:

0.1-0.2mm

Infill:
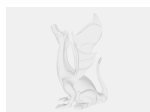
10-20%

Filament: Generic PLA

Notes:

For the front, print with the screw holes, etc. on the bed.

For the back, print with the back panel on the bed, with supports for the screw holes. You may have to play around with the supports to get them not to stick. I had to drill mine out in the end. Category: Gadgets

Model files

front_v1.stl

matrix.f3d

matrix.step

back_v1.stl

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