

# Magnetic Raspi Zero Case for Anycubic Predator

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## Summary

Case to attach a RasPi Zero W running OctoPrint with magnets to the upper honeycomb metal sheet cover (see pics for...

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Case to attach a RasPi Zero W running OctoPrint with magnets to the upper honeycomb metal sheet cover (see pics for details).

Design features **3** parts:

- Base (bottom) with cutouts for 3 magnets (3x8mm) - using all 3 at the moment, but 2 should be okay
- Box (housing), screwed to the base
- Lid with cutout for a 5V power supply cable (check pinout to get the right ones) - snap-fit

### What you will need:

- printed parts
- 3 magnets (3x8mm)
- 2 M3x8 screws and nuts (very snug fit in my tests...)

- 4 M2x10 screws to assemble the Pi - threads included in box
- Micro-USB to USB adapter (found an old Samsung S7 one in the box...)

The box features enough space for the SD card and the camera ribbon cable connector, so everything should fit properly.

### **One remark:**

the Zero W is officially not recommended due to bad performance which can be fully confirmed - knowing a "normal" PI, everything takes at least 2 or 3 times as long as "already experienced" - but: it works... somehow...

Power can be provided using the Predator power supply and a step-down converter (24V => 5V) this will start the Pi when the printer is powered and "killed" when switched-off

Update 10-04-2020:

Performance issues solved - replaced SD card by a much faster one and the systems works quite well since a couple of days... so take care to use a good quality SD card when running OctoPrint on a Zero W (even it's not recommended)

## **Print Settings**

### **Printer Brand:**

Anycubic

### **Printer:**

Predator

### **Rafts:**

Doesn't Matter

### **Supports:**

Yes

### **Resolution:**

0,2mm layer height

### **Infill:**

20%

**Filament:** Nothing special... PLA, PETG, ABS, ... dark gray

### Notes:

The 3 sink holes for the magnets will need support to avoid "in-air" extrusion, but everything else should print without

Post-Printing =====

### Assembly

Remove all supports and press-fit the magnets into the base to get a smooth surface when aligning to the housing.

The M3 nuts are placed in the housing - align the base and screw everything with M3 screws (round head)

Insert the micro SD card and align the Zero W to the 4 brackets and tight it using the M2 screws - there're holes in bottom and housing in case they're too long.

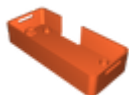
Finally, check the orientation of the lid and use the snap elements to close everything and you're done.

Category: 3D Printer Accessories

## Model files



**predator\_lid.stl**



**predator\_box.stl**



**predator\_bottom.stl**

[Find source .stl files on Thingiverse.com](#)

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