



## RepRap Ormerod 2 quick-set dual-nozzle dc42 sensor board PLA/ABS switchable heat sink enclosure and nozzle-cooling ducts



bart

[VIEW IN BROWSER](#)

updated 8. 10. 2022 | published 8. 10. 2022

### Summary

Hot end heat sink enclosure and ducts for Ormerod 2 quick-set dual-nozzle setup with dc42's improved differential...

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [fanduct](#) [hotend](#) [nozzlecooling](#) [ormerod2](#) [reprap](#)

This was migrated from my Thingiverse profile and is from 2016.

Hot end heat sink enclosure and ducts for Ormerod 2 quick-set dual-nozzle setup with [dc42's improved differential infrared height sensor board](#).

A removable shutter allows airflow to be directed at the nozzles (for PLA) or upward (for ABS). Or both at a reduced rate (shutter removed completely).

You will need to rotate the heatsink 90 degrees so the fins are vertical. A third hole will need to be drilled into the heatsink to allow for the bolts. You will also need to widen the holes for dc42's sensor board (I used a 2 mm drill) and possibly those for the fan bolts (I used a 3.5 mm drill).

This design is completely parametrised (and I mean completely, everything from dimensions, to number, offsets and symmetry [or lack of it] of top and bottom vents, ducts, and duct geometry) so I should be able to change a few numbers to generate versions for the old-style one-piece nozzle or single-nozzle hot ends. I'll post them on Thingiverse in the near future.

## Print Settings

### Printer Brand:

RepRap

### Printer:

Ormerod 2

### Rafts:

No

### Supports:

No

### Notes:

ABS standard settings

## How I Designed This

Designed in OpenSCAD, sliced with Slic3r.

## Model files



**complete\_device.stl**

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

# License

This work is licensed under a  
**Creative Commons (4.0 International License)**



## **Attribution-NonCommercial**

---

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition