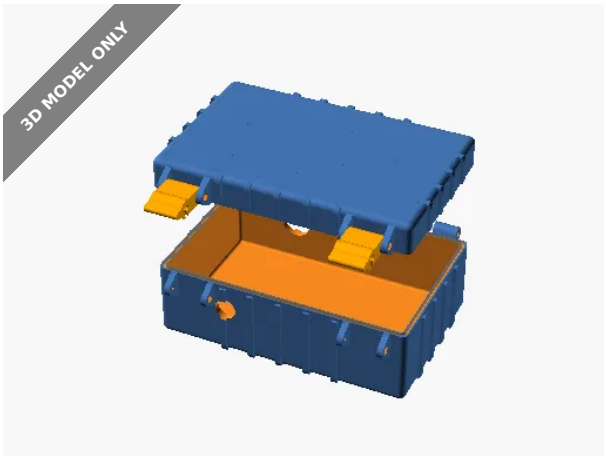

Rugged Hinged Enclosure with Snap Latches

sina chavoshi

VIEW IN BROWSER

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Summary

Ribbed, rugged box with a hinged lid and two snap-fit latches for electronics or small tools. Fully parametric.

Hobby & Makers > Electronics

Tags: parametric box case enclosure hinge electronics tools latch openscad rugged

A rugged enclosure for electronics or small tools. The ribbed outer shell adds strength, the lid is hinged (a small bolt serves as the hinge pin), and two snap-fit latches keep it closed.

- **Body** 172 × 129 × 55 mm
- **Lid** 172 × 129 × 25 mm
- **Latch**: print 2

Customize it in your browser

This model is fully parametric. Change inner_length_x, inner_width_y, inner_height_z and wall_thickness to fit what you want to store. Open it in the free OpenSCAD Playground, change the numbers and export your own STL: Open it in OpenSCAD Playground

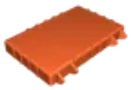
Source

The OpenSCAD source and the rest of my models are on GitHub:
github.com/SinaChavoshi/3d_printer_agentic_models

Designed with AI assistance in OpenSCAD.

Model files

rugged_enclosure_latch.stl



rugged_enclosure_lid.stl

rugged_enclosure_body.stl

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