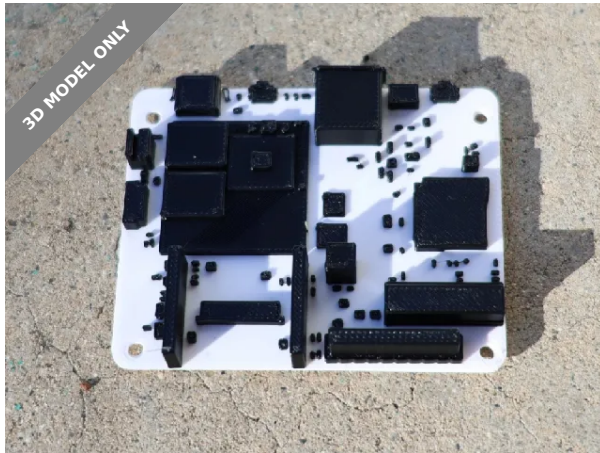




Coralboard SL Print-Friendly Design Reference Model



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Summary

Simplified printable Coralboard SL model for testing enclosure clearances, mounting, and port alignment

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[coralboard](#) [coralboardsl](#)

Coralboard SL Print-Friendly Design Reference Model

This model was created to help enclosure and mount designers prototype and test their designs for the Synaptics Coralboard SL.

While the official Coralboard STEP file is excellent for CAD work, many of the native features are too small or complex for practical FDM printing. This model simplifies the board geometry while preserving the dimensions required for enclosure design and fitment testing.

Intended Uses:

- Testing enclosure fitment
- Verifying USB-A and USB-C port openings

- Checking internal clearances
- Testing lid height and component clearance
- Verifying mounting hole locations
- Prototyping mounts and accessories before receiving hardware
- Developing Coralboard SL enclosures without needing to model the board yourself

Design Notes:

The model was derived from the official Coralboard SL STEP file and manually recreated with printability in mind.

To improve printability:

- Small components were simplified into printable geometry
- Complex connector details were generalized
- Extremely fine features were removed
- Overall component heights and widths were preserved where relevant to enclosure design

The model is split into two printable halves that can be printed flat and assembled after printing. This greatly reduces support requirements compared to attempting to print the original geometry.

Please print with supports! (Don't worry, it won't take many).

Preserved Reference Features:

- Overall board dimensions
- Major component heights
- GPIO header locations
- USB-A port location
- USB-C port location
- MicroSD card location
- Corner mounting hole locations

Additional reference indicators have been added to identify where plugs enter the USB-A, USB-C, and MicroSD interfaces when checking enclosure clearances.

Important Notes:

This is not intended to be an electrically accurate reproduction of the Coralboard SL.

The purpose of this model is to provide a fast, printable mechanical reference for enclosure and mount design.

For dimension-critical engineering work, always reference the official Coralboard documentation and CAD files:

I did not remix this to win the contest. I am purely uploading it for the benefit of other creators and to a location that will be seen by all applicable.

This remix is based on



Synaptics Coralboard SL

by Coral

Model files



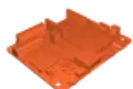
synaptics_coralboard_sl-simple-top-and-bottom.3mf



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synaptics_coralboard_sl-simple-top.step



synaptics_coralboard_sl-simple-bottom.step

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