



Magnetic Case for Synaptics Coralboard SL



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Summary

Magnetic Coralboard SL enclosure with GPIO access door, integrated buttons, and ventilation.

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Magnetic Case for Synaptics Coralboard SL

A compact magnetic enclosure designed for the Synaptics Coralboard SL development board.

The enclosure provides quick access to the board while maintaining access to essential development features. A hinged GPIO access door allows expansion boards, sensors, and wiring to be connected without removing the lid, while printed living hinges provide easy access to the USB and RST buttons.

Ventilation is positioned above and to the side of the main processing hardware to support passive cooling while keeping the overall design clean and compact.

Features

- Magnetic lid
- Hinged and Magnetic GPIO access door
- Integrated USR and RST buttons
- USB-A, USB-C, and Micro SD access
- Ventilation above and to the side of the main processing module
- Compact rounded design
- Supports future screw-on accessories using longer M3 hardware
- Designed specifically for the Synaptics Coralboard SL

Hardware Required

- 1× Synaptics Coralboard SL
- 4× M3×4 mm socket head bolts
- 10× 3×2 mm round neodymium magnets
- Super glue (for permanent magnet installation)

Magnet Layout

- 8 magnets for lid retention (2 magnets per corner post)
- 2 magnets for the GPIO access door latch (see pictures for placement)

Printing Notes

- Prints support-free on a well-tuned printer with good bridging performance.
- Supports may be used if desired.
- USR and RST button actuators are printed in place using living hinges.
- The GPIO access door is printed in place and can remain open past 90° for convenient access during development.

Model files

coralboard-case.3mf



synaptics_coralboard_sl_case_vf.stl





synaptics_coralboard_sl_lid_vf.stl

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