Coralboard 10-inch 1U Rackmount Enclosure

rh45

VIEW IN BROWSER

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Summary

A split 10-inch 1U Coralboard rackmount with a customizable side-panel.

Hobby & Makers > Electronics

Tags: 10 enclosure joint electronics rack printable server inch rackmount dovetail keystone sbc 1u coralboard astrasom

A two-part 10-inch 1U rackmount enclosure designed around the Coralboard reference model.

The nominal front panel is 254 mm wide and 44.45 mm high. It is split into left and right printable modules joined by an interlocking sliding dovetail. Two horizontal screws and captive nuts secure the centre joint.

The left module carries the board. The right module is available in six interchangeable versions:

- Mounting openings for two RJ45 keystone connectors and two SMA bulkhead connectors
- A blind panel without a base
- A blind panel with a plain base for adapting other equipment

- A carrier for a second Coralboard, with matching mounting points and front openings
- Mounting openings for four keystone connectors
- A blind panel with a slotted base for adjustable mounting or cable ties

The connector openings provide mechanical mounting space for separately purchased connectors. The blind panels have unmarked front faces.

The rack assembly has captive reset and user button pistons, labelled faces and a layout intended for a compact rack or lab installation.

The main plate contains all four parts:

- Left rack module
- Original right rack module
- Reset button piston
- User button piston

The alternative right modules are supplied separately. Use one right module per assembly. The second Coralboard version requires an additional reset button piston and user button piston.

Supports are required, and the small button pistons may benefit from a brim on some printers.

Nominal hardware shown in the standard configuration renders:

- 4x | M3 × 6 mm board screws
- 4x | heat-set inserts
- 2x | M3 × 12 mm joint screws
- 2x | M3 nuts
- 2x | RJ45 keystone connectors
- 2x | SMA bulkhead connectors

The second Coralboard version requires an additional four board screws and four heat-set inserts. Connector quantities depend on the right module selected.

Physical printing, assembly fit and rack hardware compatibility have not yet been tested.
Check out the desktop case version too:

Model files

Individual_Parts 4 files

button_piston_rst.3mf

button_piston_usr.3mf

rack_10in_left.3mf

rack_10in_right.3mf

Right_Module_Variants 5 files

rack_10in_right_blank_with_base.3mf

rack_10in_right_blank_no_base.3mf

rack_10in_right_blank_slotted_base.3mf

rack_10in_right_second_coralboard.3mf

rack_10in_right_keystone_4.3mf

coralboard_rack_10in_1u_core_plate.3mf

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