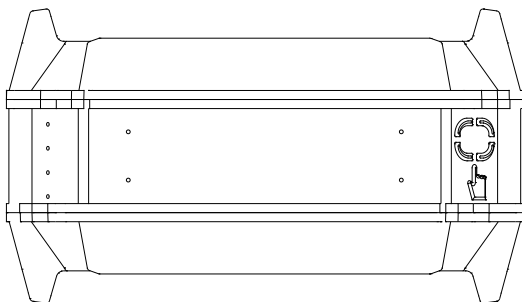
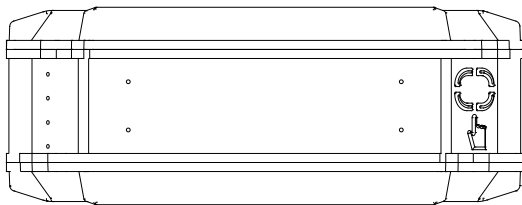
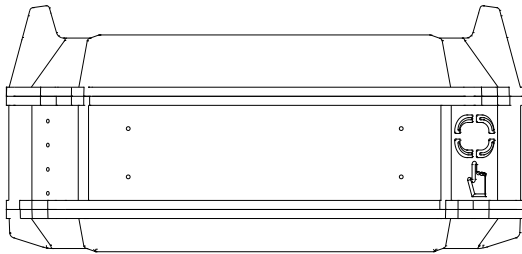
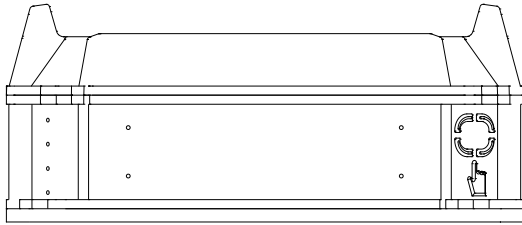
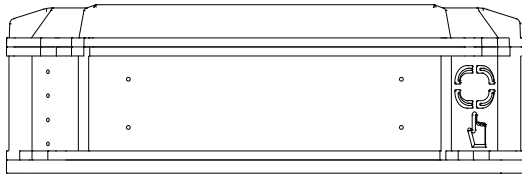
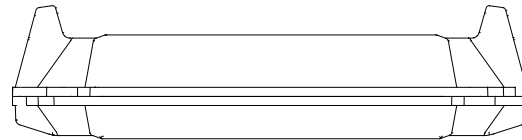
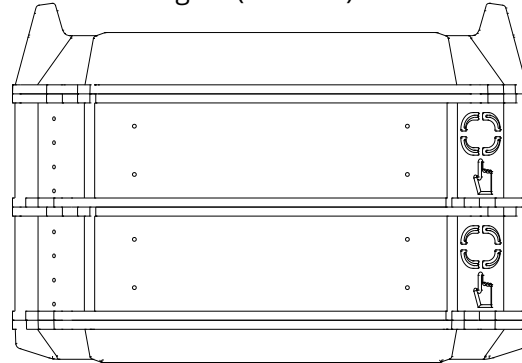


ASSEMBLY COMBINATIONS

Additional parts may be required and are available at shop.openh.io




Stacking Kit (88-002A) shown




HARDWARE INCLUDED

M3 L35 TF x4 

M3.5 L6 TF x4 

M3 L5 x4 

M2.5 L6 TF x4 

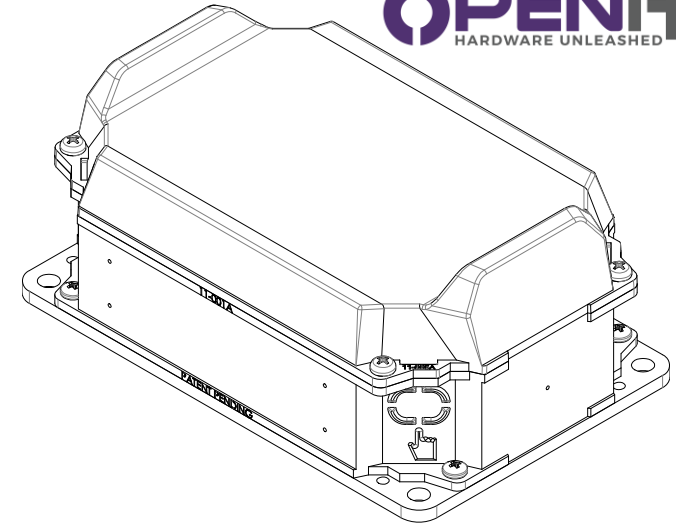
M2.5 L5 x8 

11 MM STANDOFF x4 

7 MM STANDOFF x4 

STAR WASHER x16 

RUBICON QUICKSTART GUIDE



Congratulations on your purchase of the Rubicon Starter Kit! Use this quick start guide to get up and running as fast as possible.

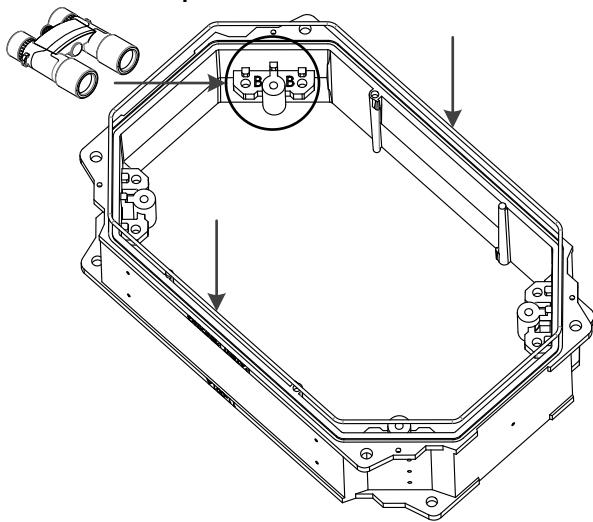
Go to openh.io/build for assembly videos. Spare or replacement parts are available at shop.openh.io

Starter Kit Contents:

- 1 x Shell (11-001A)
- 2 x Cover (11-004A)
- 1 x Base plate (12-001A-N)
- 1 x Gasket Kit (87-001A)
- 1 x Stacking Screws Kit (18-006A-K4)
- 1 x Board Stacking Standoff Kit (87-012A-116B)
- 1 x Board Mounting Standoff Kit (87-012A-072B)
- 1 x Rubicon Shell Screw Pack (87-003A)

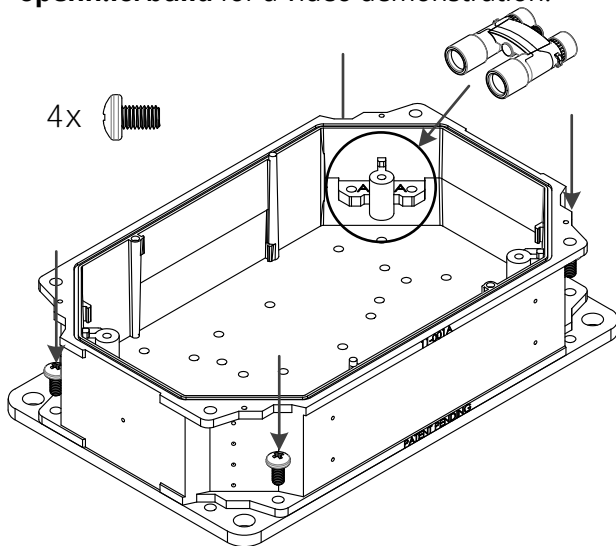
GENERAL ASSEMBLY INSTRUCTIONS

Go to openh.io/build for video instructions

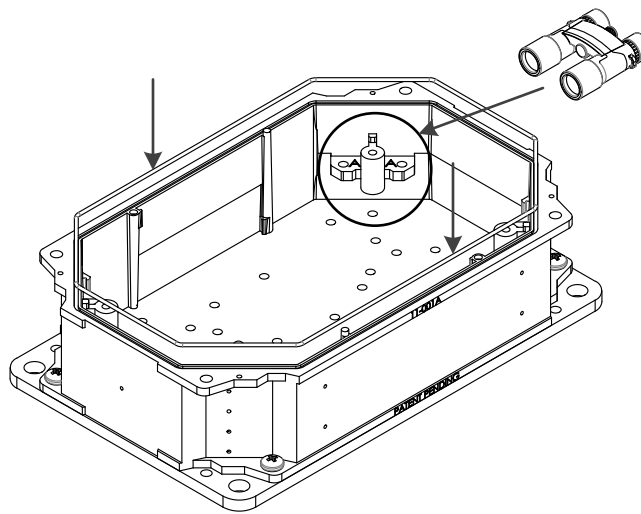


1. (Optional for IP67) There are two different sized gaskets in the Gasket Kit. Place the large gasket into the groove on the shell with **side B** facing towards you.

2. If using a SBC (Raspberry Pi, etc.), mount to appropriate **7 mm standoffs** with **M2.5 L5** screws or shell mounting bosses with **M2.5 L6 TF** screws. See **Hole Guide** for locations. Go to openh.io/build for a video demonstration.

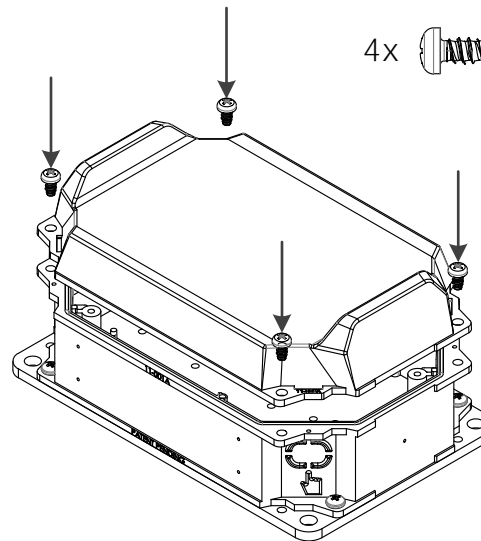


3. Place the shell on the base plate with **side A** facing towards you. Screw in 4 **M3 L5** screws from the Rubicon Shell Screw Pack.



4. (Optional for IP67) Place the small gasket into the groove on the shell with **side A** facing towards you.

5. Before putting the cover on, if using a stacked board, mount it now with **11 mm standoffs** and **M2.5 L5** screws or shell mounting bosses with **M2.5 L6 TF** screws.

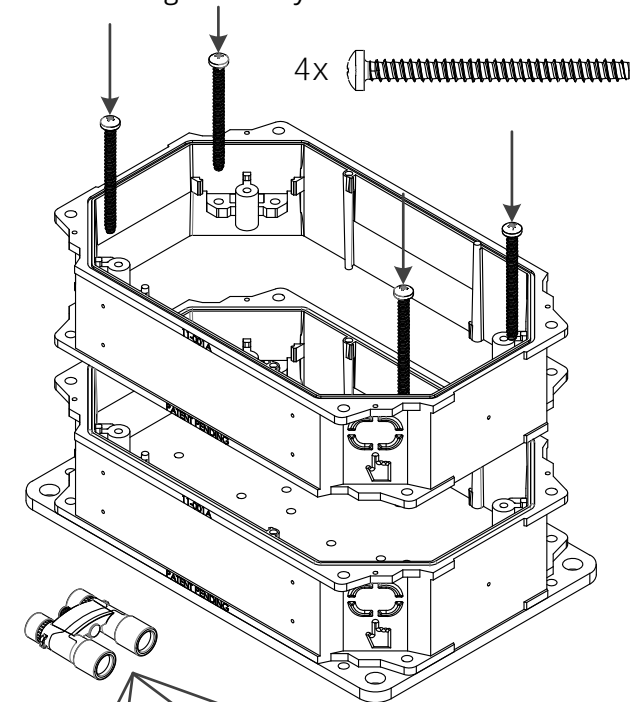


6. Place the cover on top. Screw in 4 **M3.5 L6 TF** screws from the Rubicon Shell Screw Pack. Skip this step if stacking an additional shell.

STACKING ASSEMBLY INSTRUCTIONS

1. Complete steps 1 through 5 of **General Assembly Instructions**.

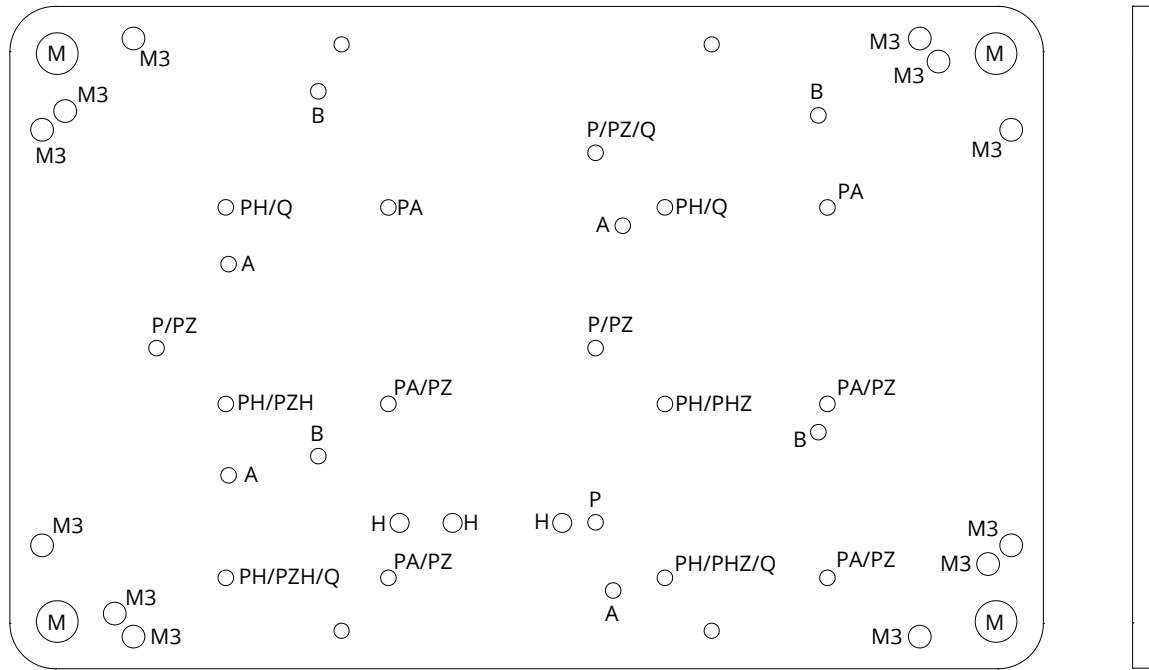
2. (Optional for IP67) Place the small gasket into the groove on the shell to be stacked with **side A** facing towards you.



3. Place the stacking shell on top of the other shell, making sure **both shells** have **side A** facing the same direction. Screw in 4 **M3 L35 TF** screws where indicated.

4. Perform step 6 of **General Assembly Instructions** to attach the cover.

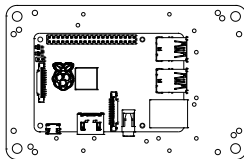
HOLE GUIDE AND MOUNTING TEMPLATE (P/N: 12-001L REV L PLATE)



1:1 scale drawing for use as template

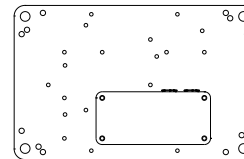
P = Raspberry Pi mounting hole (using frame)

- M2.5 standoff



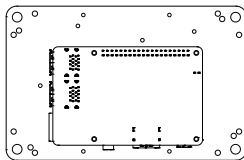
PZ = Raspberry Pi Zero mounting hole

- M2.5 standoff



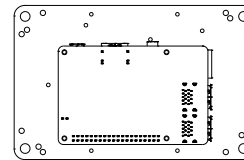
PA = Raspberry Pi alternate mounting hole

- M2.5 standoff



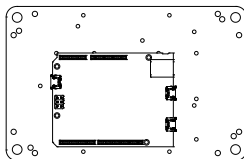
PH = Raspberry Pi mounting hole for heatsink use

- M2.5 standoff



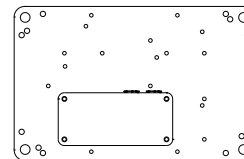
A = Arduino mounting hole

- M2.5 standoff



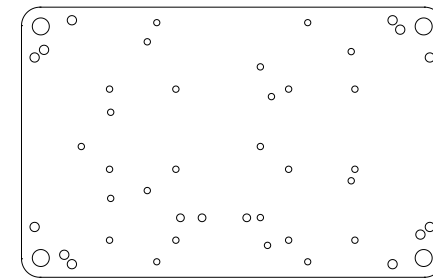
PHZ = Raspberry Pi Zero mounting hole for heatsink use

- M2.5 standoff

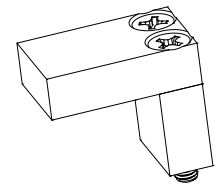


M3 = M3 tapped hole

PLATE AND HEATSINK INSTALLATION GUIDE



P/N: 12-001L

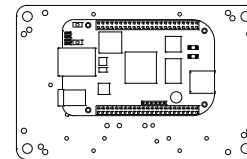


P/N: 88-004A

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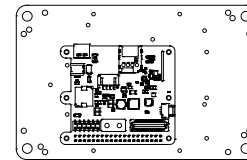
B = BeagleBone mounting hole

- M2.5 standoff



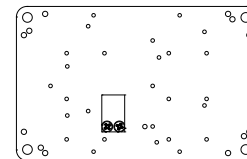
Q = Quasar mounting holes

- M2.5 standoff



H = Heatsink mounting hole

- M3 screw (not included)



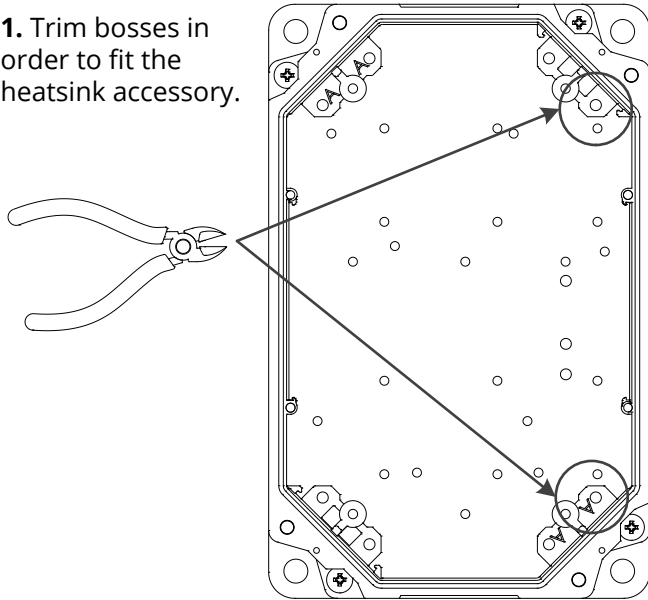
M = 5.5 mm dia. mounting hole

- M5 or smaller screw
- #10 or smaller screw
- Drywall screw

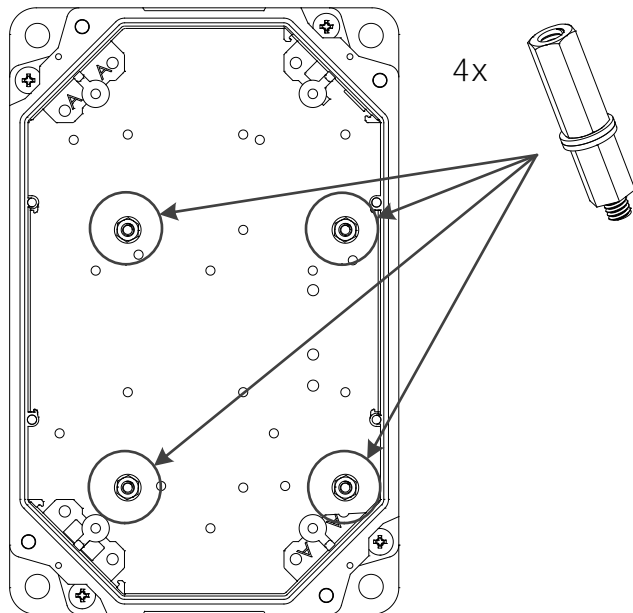
HEATSINK ACCESSORY INSTALLATION

Go to openh.io/build for video instructions

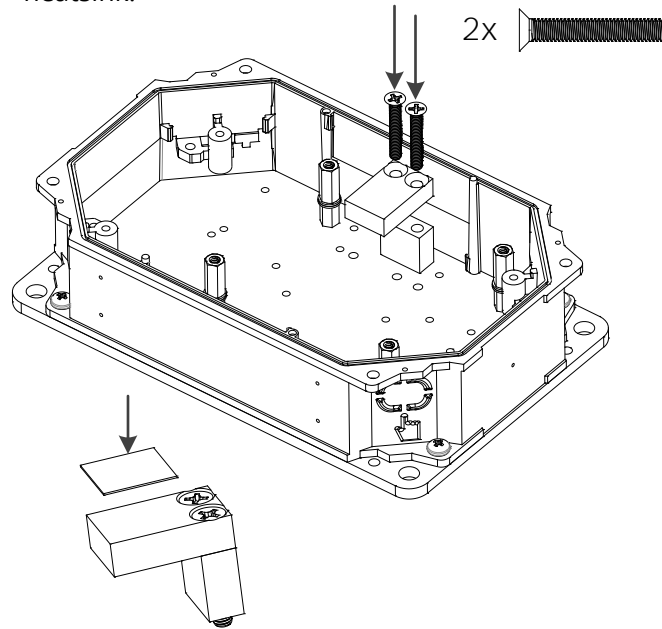
1. Trim bosses in order to fit the heatsink accessory.



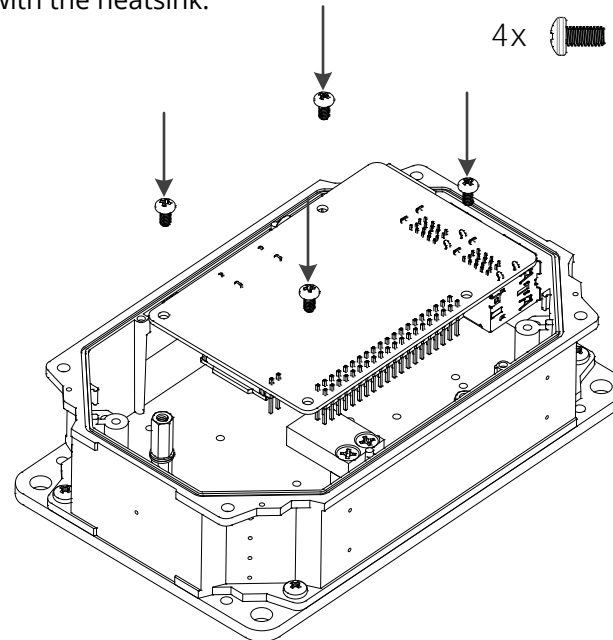
2. Screw in the **7mm standoff** with the **11mm standoff** and two **washers** included in the heatsink accessory kit. Washers are not needed if using the Quasar. Repeat for all four corners. See **Hole Guide** for correct locations.



3. Assemble the heatsink using two **M3 flathead screws**. Add one **thermal pad** to the top of the heatsink.

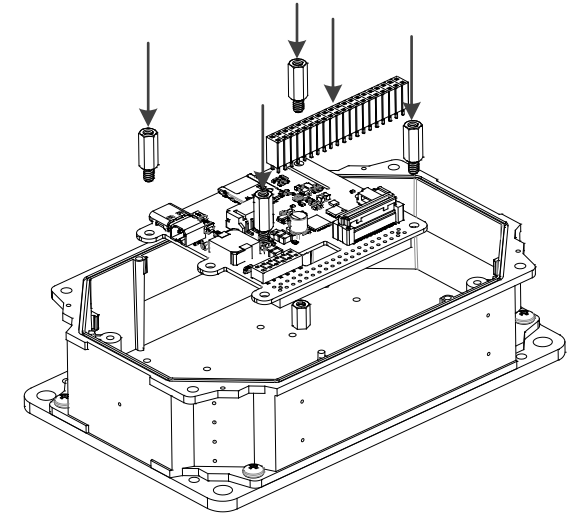


4. Place the Raspberry Pi on top of the standoffs and screw in 4 **M2.5 L5 screws**. The heatsink is also compatible with the **Raspberry Pi Zero** – see the **Hole Guide** for correct location. Ensure the Raspberry Pi is fully pressed down for best contact with the heatsink.



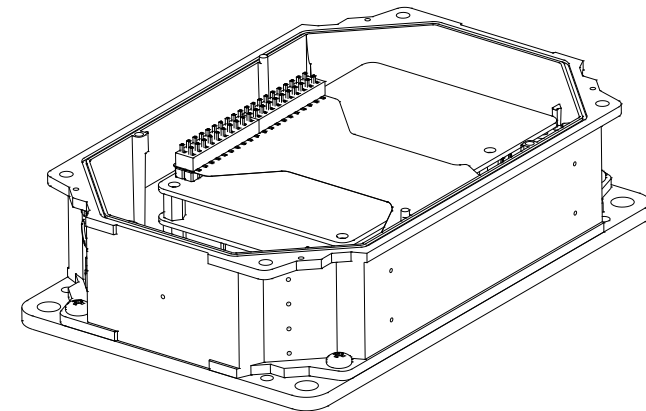
QUASAR WITH HEATSINK ACCESSORY INSTALLATION

Between steps **2** and **3** of the **Heatsink Accessory Installation** guide, insert the **Quasar** and header. Complete the remaining steps of the **Heatsink Accessory Installation** guide.



FLEX CABLE FOR EXPANSION

Use the **flex cable accessory** when the Raspberry Pi is facing downward and stacking ability is desired.



Note that **pin 1** on the flex cable must match with **pin 1** on the Raspberry Pi header for optimal operation.