



GroupGets Boson POE Kit

Getting Started

Aug 2026 - Revision #1

Introduction

This guide will walk you through installing a Boson in the POE Kit.

Purchasing the kit with a Boson? We can install the Boson for you and ship a plug and play solution.

Powered up and ready to use GetThermal+? Skip to the *GetThermal+ User Guide*.

Kit Includes:

- ✓ OpenMV Boson Adapter
- ✓ OpenMV RT1062 with POE shield
- ✓ Case with 40mm Noctua fan
- ✓ Front covers – small and large
- ✓ L-Screwdriver, PH1
- ✓ L-Key, Hex 1.5mm
- ✓ Hardware
 - M2.5x6 screws (x2)
 - M2x3 screws (x2)
 - M1.6x5 screws (x4)

What You'll Need:

- Teledyne FLIR Boson camera core
- PoE injector and Ethernet cable
 - CAT5, CAT5e, or CAT6
 - 802.3af (Class 0)

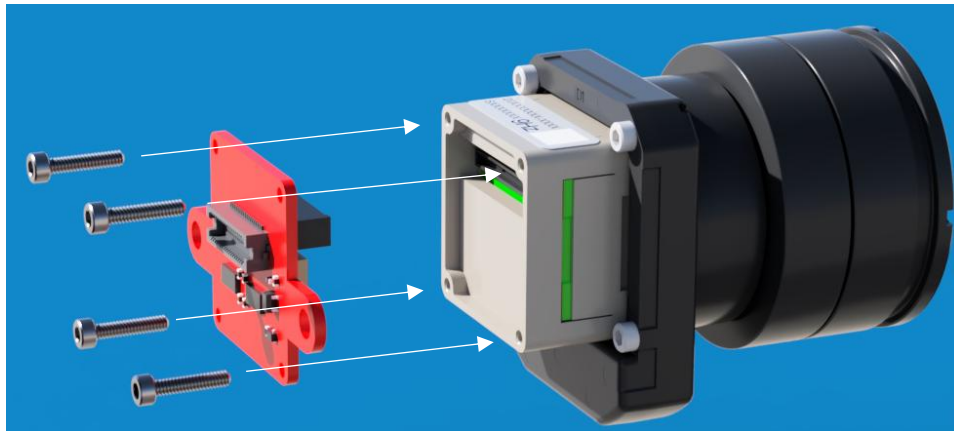
Important Notes

- This kit is for indoor use only.
- These are electrostatic sensitive devices. Use ESD precautions when handling.
- Don't hot-plug the Boson to the adapter with power applied.
- If the fan stops working, the device may become hot.
- This kit is not compatible with Boson 640 and 320 models that have 36mm lenses or greater. The hardware is compatible; however, the larger lenses will not fit the enclosure.

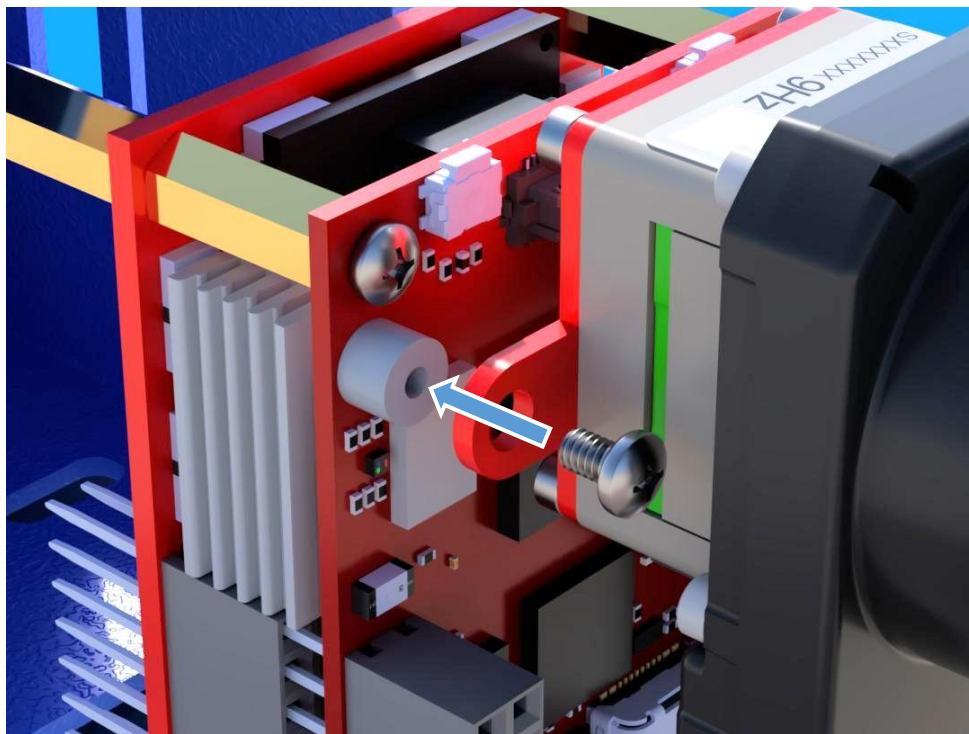


Boson Installation

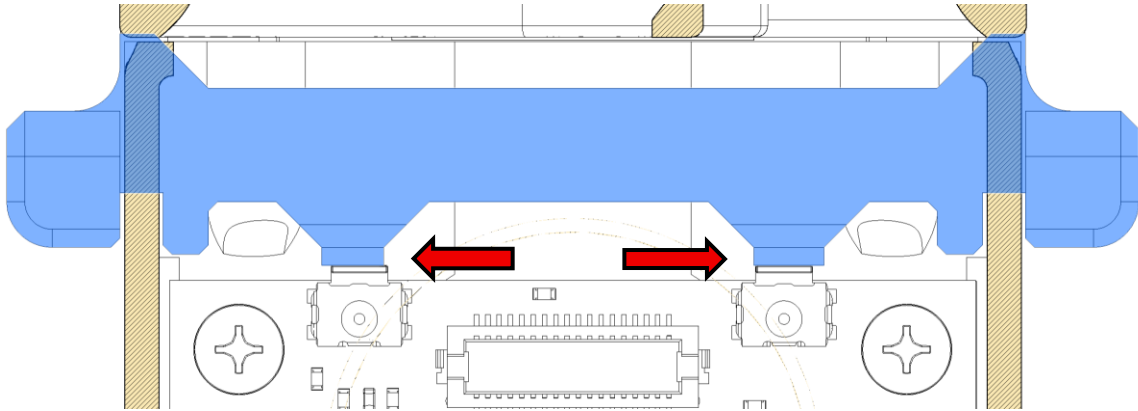
Step 1: Connect the OpenMV Boson Adapter PCB to the Boson and secure it with the 4 included M1.6x5 screws.



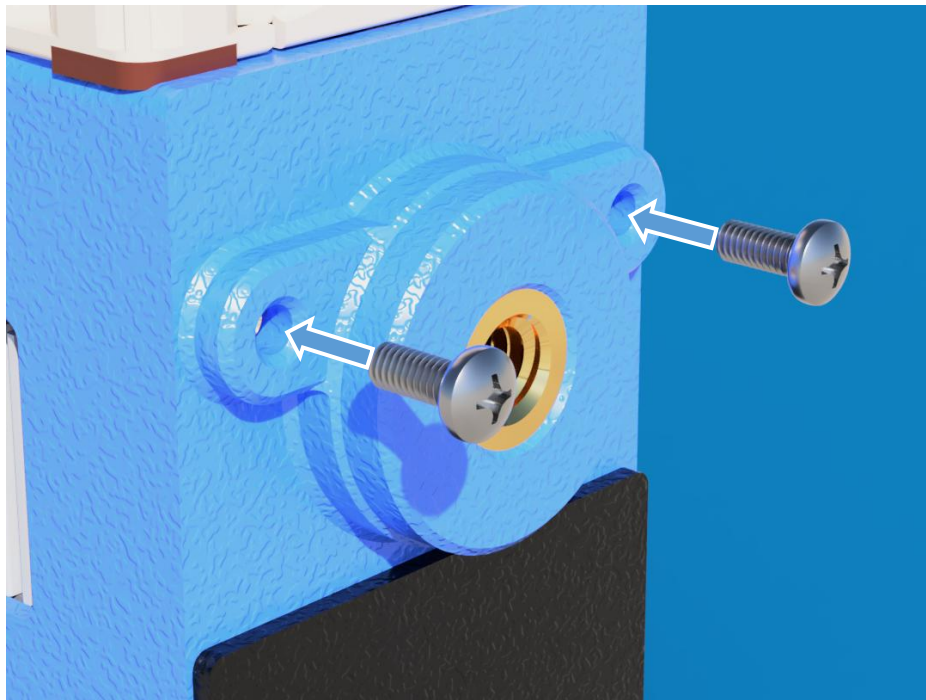
Step 2: Connect the Boson and adapter assembly to the OpenMV Cam RT1062 and secure it with the two M2x3mm screws.



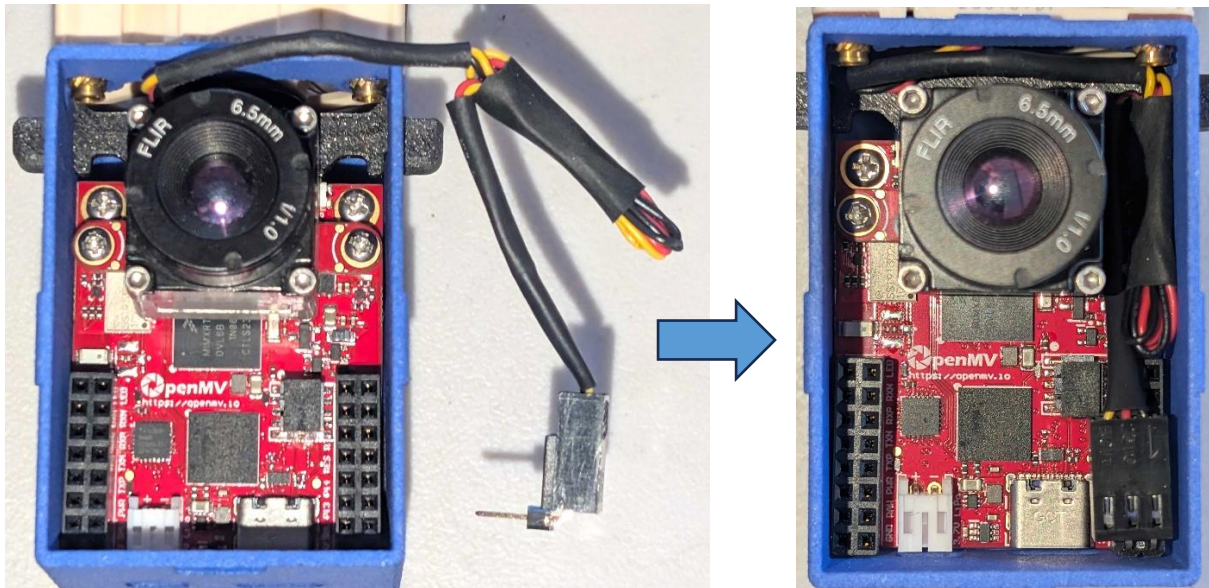
Step 3: Insert the assembly into the case body. Ensure the button mechanism contacts the top of the buttons and gives a tactile response when pressed.



Step 4: Secure the PCB and Boson assembly to the case body using two M2.5x6 screws.



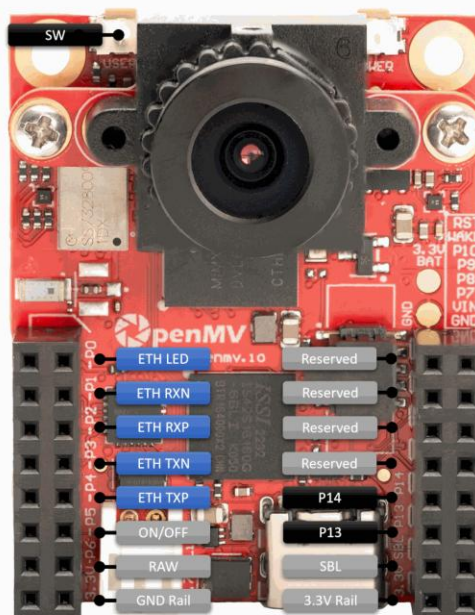
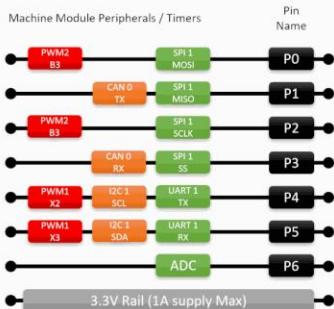
Step 5: Connect the fan power cable to the GND and 3.3V rails using the header pin socket on the right side. Tuck the excess fan cable behind the Boson.



By: Ibrahim Abdelkader & Kwabena W. Agyeman
<https://openmv.io>

RAW provides always-on unregulated (3.6V-5V) power in on/off or deepsleep modes.

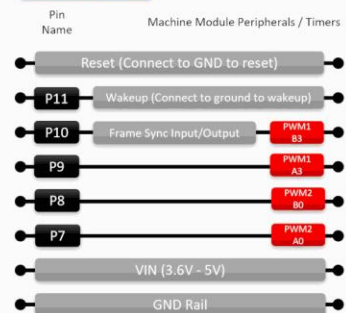
Connect SBL to 3.3V to put the board into recovery mode to reflash the bootloader.



All pins are 3.3V tolerant with a 3.3V output
 All pins can sink or source up to 4 mA

On/Off (or Power Button):
 * Pull low for 5 seconds to turn off when on
 * Pull low for 1 second to turn on when off
 Wake:
 * Pull low to wakeup in deepsleep (not off).

Micro SD Slot
 SD < 2GB Max
 SDHC < 32GB Max
 SDXC < 2TB Max

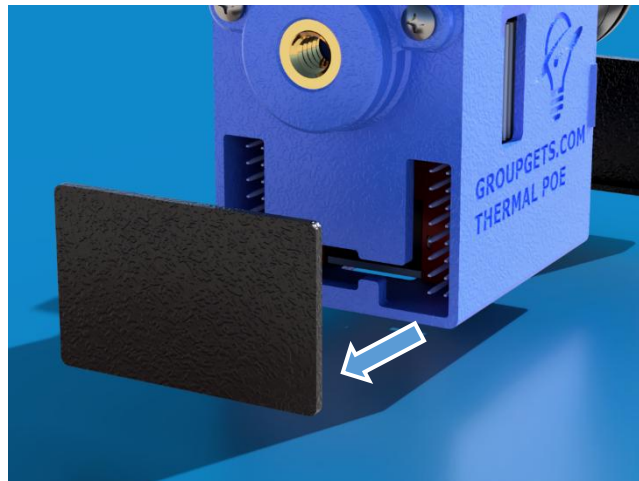


<https://docs.openmv.io/v5.0.0/openmvcam/quickref/openmv-rt1062.html>

Step 6: Install the front cover, connect a PoE cable, and insert an optional MicroSD card.



Tip: The rear cover can be removed to make the breakout pins accessible.



That's it! Now you're ready to move on to the *GetThermal+ User Guide*.