ED-Pi5Case-EXT

Metal Case supporting Raspberry Pi 5 + HAT

- Sheet metal powder spraying + aluminium profile technology, simple design
- Both top and bottom case provide passive cooling for Raspberry Pi 5 though thermal pads & metal body, excellent cooling performance
- Good protection for Raspberry Pi 5, Raspberry Pi Active Cooler and Raspberry Pi M.2 HAT+
- Support installation of Raspberry Pi 5 + Raspberry Pi M.2 HAT+
- Support installation of Raspberry Pi Active Cooler
- HDMI, Ethernet port, USB, SD card, ON/OFF button and PWR/ACT indicator are all accessible
- Reserved camera cable slots and mounting holes for installing the Raspberry Pi Camera on the case
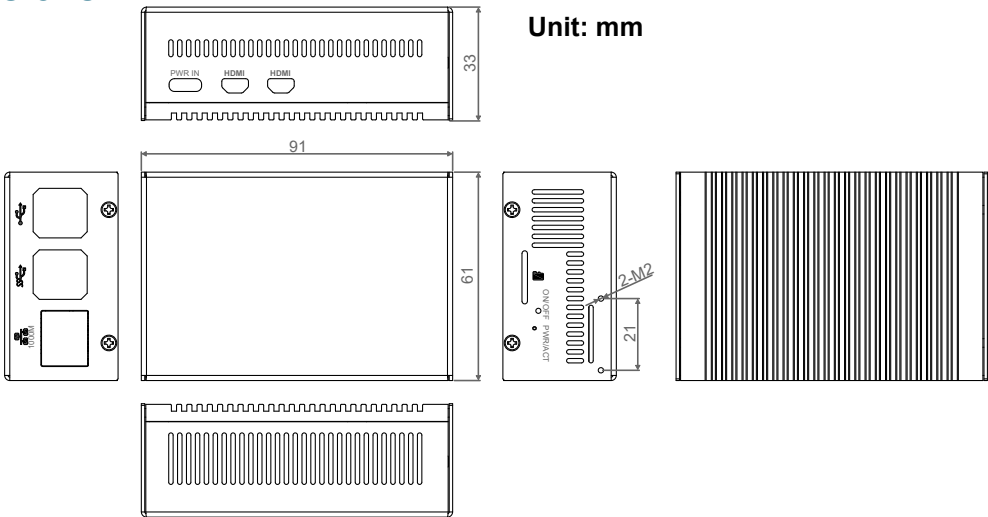- All-metal casing with an attractive appearance for commercial and industrial scenarios

Specifications

Cooling Performance		
Test Device Configuration	Raspberry Pi 5 + Raspberry Pi AI Kit + Raspberry Pi Active Cooler	Raspberry Pi 5 + Raspberry Pi AI Kit + Raspberry Pi Active Cooler + ED-Pi5Case-EXT
Software Configuration	•CPU 4 cores running at full load via sysbench • Run **stress_test** in Hailo Module	
Ambient Temperature	25℃	
Hailo[1] Module stable operating temperature (℃)	93.1	73.3
Stable running temperature of CPU (℃)	65.1	65.1

[1]: Hailo module is an operation module located on Raspberry Pi AI kit.
Test Results: Under the environment of 25℃, when the device is running in a stable state, ED-Pi5Case-EXT can reduce the temperature of Raspberry Pi AI Kit by about 20℃, and also reduce the temperature fluctuation range of Raspberry Pi 5 CPU.

Mechanical Characteristics	
Dimensions	91mm x 61mm x 33mm
Material	Sheet Metal (Top Cover) + Aluminium Profile (Bottom Cover)

Dimensions

Unit: mm

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Ordering Code

P/N: **ED-Pi5Case-EXT**
Configuration: Metal Case supporting Raspberry Pi 5 + HAT

Packing List

- 1 x ED-Pi5Case-EXT Top Cover
- 1 x ED-Pi5Case-EXT Bottom Cover
- 1 x Accessory Set (With 2 x M2*H8 cylindrical sleeves, 2 x M2*12 screws, 4 x M2.5*21 Screws, 4 x M2.5*4 Screws, 4 x M2.5*H15 cylindrical sleeves and A pair of tweezers)

Installation

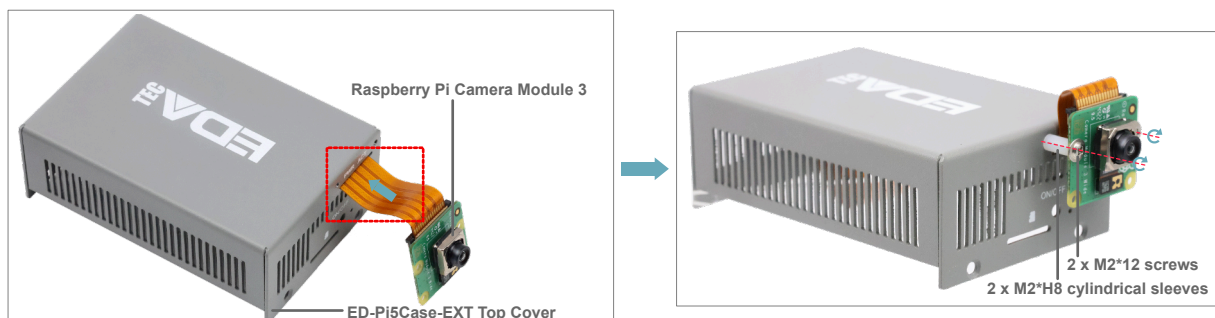The following is an example of installation for Raspberry Pi 5 + Raspberry Pi M.2 HAT+.

Parts list:

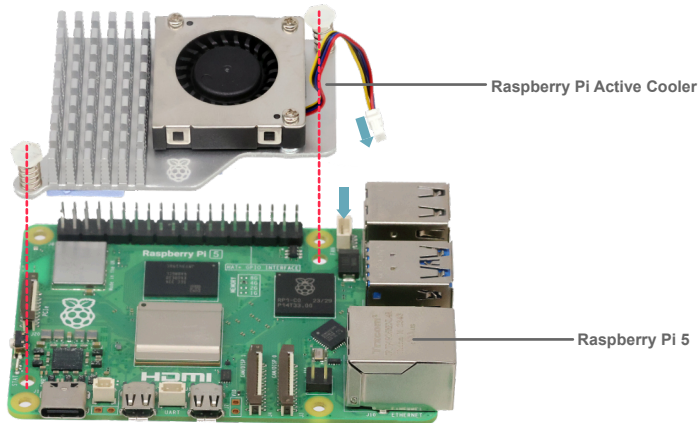| NO.	Name	Quantity (PCS)
1	ED-Pi5Case-EXT Top Cover	1
2	ED-Pi5Case-EXT Bottom Cover	1
3	Raspberry Pi 5 (Not provided)	1
4	Raspberry Pi Active Cooler (Not provided)	1
5	Raspberry Pi M.2 HAT+ (Not provided)	1
6	40-Pin connector (Not provided)	1
7	Raspberry Pi Camera Module 3 (Not provided)	1
8	M2*H8 cylindrical sleeves	2
9	M2*12 screws	2
10	M2.5*4 screws	4
11	M2.5*H15 cylindrical sleeves	4
12	M2.5*21 screws	4
13	tweezers	1

Note:

- Raspberry Pi 5, Raspberry Pi Active Cooler, Raspberry Pi M.2 HAT+, Raspberry Pi Camera Module 3 and SD card are not included in the box, the following is intended as an installation illustration only.
- Before you start installing, please remove the White Protective Paper from thermal silicone in the case.
- If the Raspberry Pi AI Kit is installed, please make sure that the thermally conductive silicone in the Top Cover is in full contact with the Hailo IC.
- You can log in to Raspberry Pi website (**https://www.raspberrypi.com**) to get assembly instructions of Raspberry Pi Active Cooler, Raspberry Pi M.2 HAT+ and Raspberry Pi Camera Module 3.
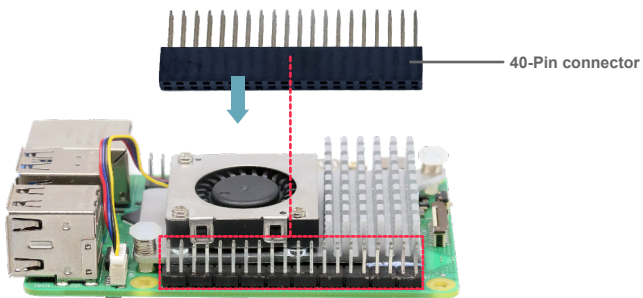
Steps:

① Pass the FPC cable from the **Raspberry Pi Camera Module 3** through the pre-drilled hole on the **ED-Pi5Case-EXT**, then use two M2*H8 cylindrical sleeves and two M2*12 screws to secure the Camera to the outside of **ED-Pi5Case-EXT Top Cover**.
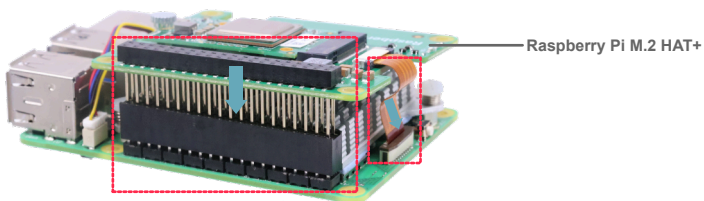
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② Install **Raspberry Pi Active Cooler** on **Raspberry Pi 5**.
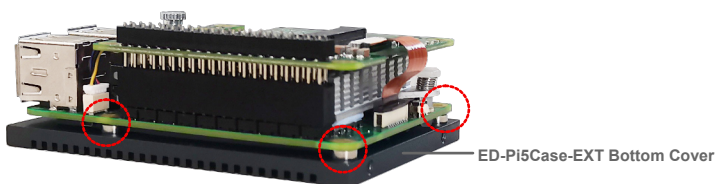
Raspberry Pi Active Cooler

Raspberry Pi 5

③ Connect the 40-Pin connector to the 40-Pin port on **Raspberry Pi 5**.

40-Pin connector
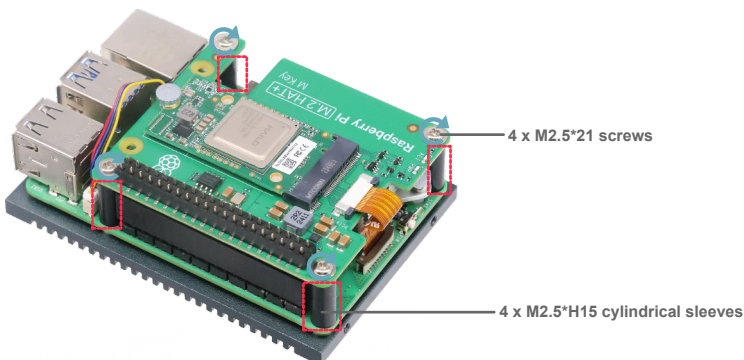
④ Connect **Raspberry Pi M.2 HAT+** to **Raspberry Pi 5** via 40-Pin connector and plug in the PCIe cable into PCIe port of **Raspberry Pi 5**.

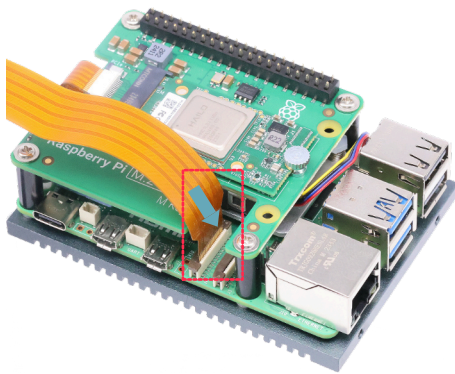Raspberry Pi M.2 HAT+

⑤ Place the **Raspberry Pi 5** on the **ED-Pi5Case-EXT Bottom Cover** and align the screw holes.

ED-Pi5Case-EXT Bottom Cover

⑥ Place four M2.5*H15 cylindrical sleeves on the screw holes between the **Raspberry Pi 5** and the **Raspberry Pi M.2 HAT+**. Then insert four M2.5*21 screws into the screw holes on the **Raspberry Pi M.2 HAT+** and tighten them clockwise using a screwdriver to secure the **Raspberry Pi M.2 HAT+** and **Raspberry Pi 5** to **ED-Pi5Case-EXT Bottom Cover**.
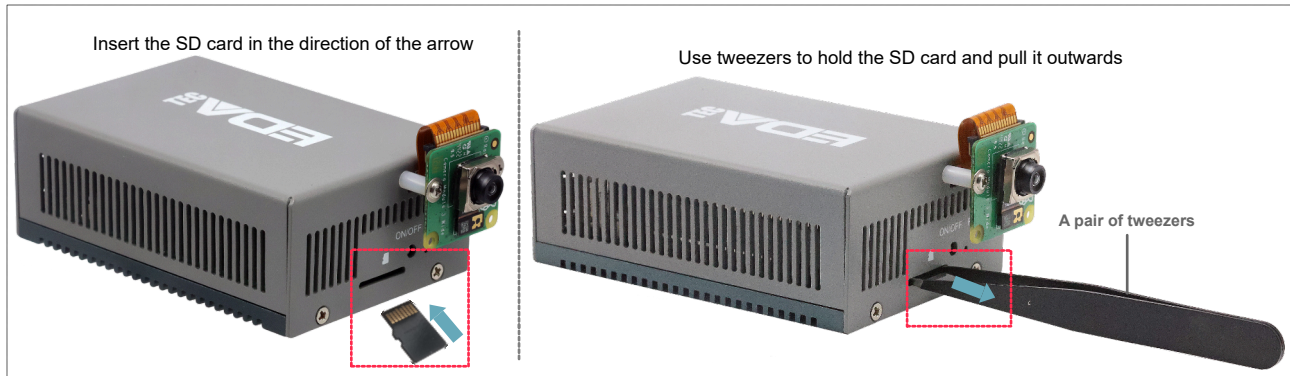
4 x M2.5*21 screws

4 x M2.5*H15 cylindrical sleeves

⑦Plug the FPC cable from the **Raspberry Pi Camera Module 3** into the CAM/DISP port on the **Raspberry Pi 5**.

⑧Put **ED-Pi5Case-EXT Top Cover** over **ED-Pi5Case-EXT Bottom Cover**, and align the screw holes. Then insert four M2.5*4 screws and tighten them clockwise using a screwdriver.

4 x M2.5*4 screws

⑨After the installation is complete, you can refer to the following figure to insert and remove the SD card.

Insert the SD card in the direction of the arrow

Use tweezers to hold the SD card and pull it outwards

A pair of tweezers

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