**Datasheet**

Last Updated: 25-July-2024

# 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



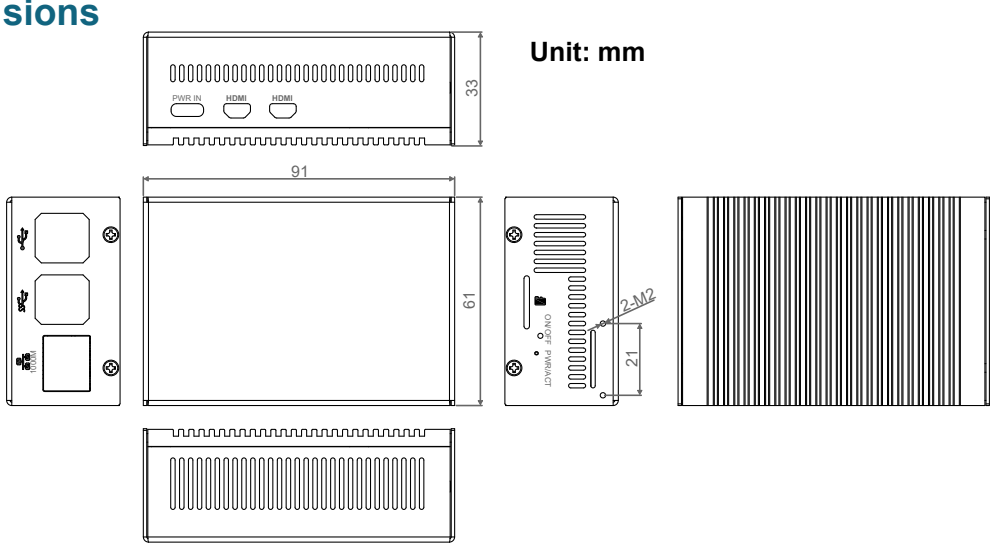
## Specifications

| **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<br>• Run **stress_test** in Hailo Module | |
| Ambient Temperature | 25˚C | |
| Hailo*1 Module stable operating temperature (˚C) | 93.1 | 73.3 |
| Stable running temperature of CPU (˚C) | 65.1 | 65.1 |
| ***1:** Hailo module is an operation module located on Raspberry Pi AI kit.<br>**Test Results**: Under the environment of 25˚C, when the device is running in a stable state, ED-Pi5Case-EXT can reduce the temperature of Raspberry Pi AI Kit by about 20˚C, 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:**

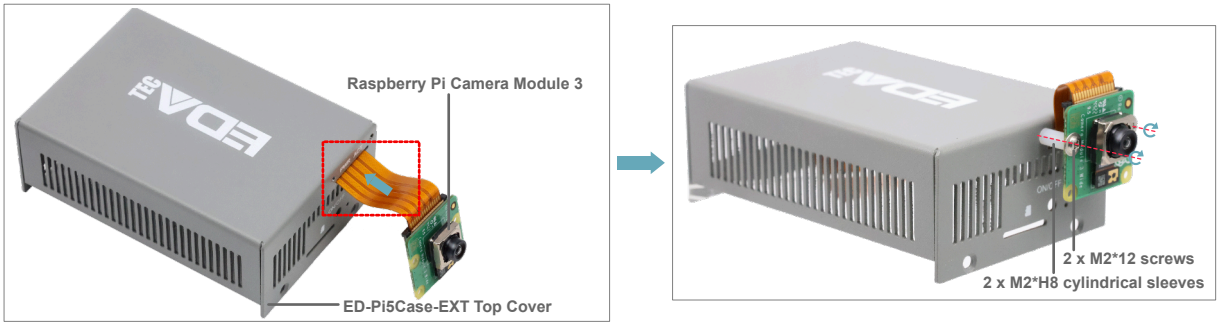
| NO. | Name | Quantity (PCS) |
|---|---|---|
| 1 | ED-Pi5Case-EXT Top Cover | 1 |
| 2 | ED-Pi5Case-EXT Bottom Cover | 1 |
| 3 | Raspberry Pi 5 (Not provided) | 1 |
| 4 | Raspberry Pi Active Cooler (Not provided) | 1 |
| 5 | Raspberry Pi M.2 HAT+ (Not provided) | 1 |
| 6 | 40-Pin connector (Not provided) | 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:**

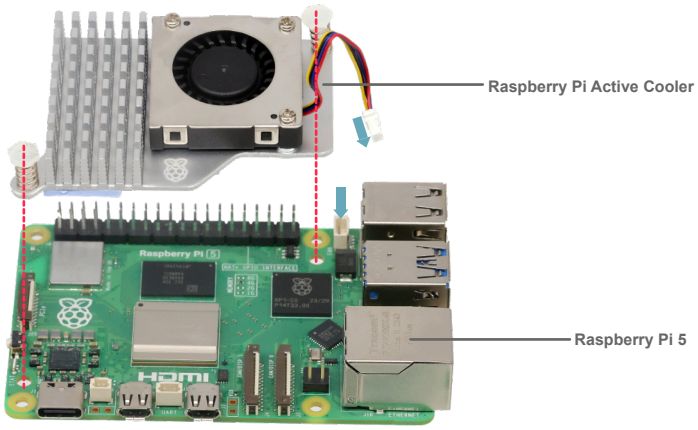
①Pass the FPC cable from the **Raspberry Pi Camera Module 3** through the pre-drilled hole on the **ED-Pi5Case-EXT**, then use two M2*H8 cylindrical sleeves and two M2*12 screws to secure the Camera to the outside of **ED-Pi5Case-EXT Top Cover**.



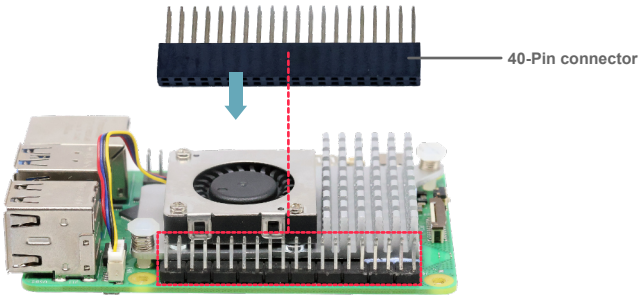

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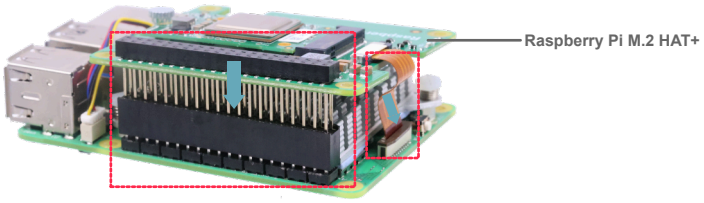
②Install **Raspberry Pi Active Cooler** on **Raspberry Pi 5**.



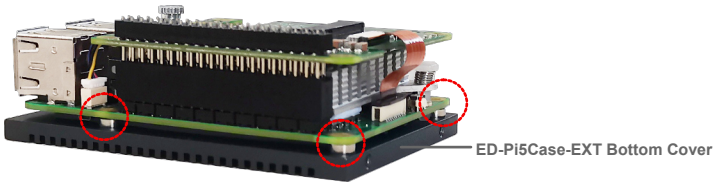

③Connect the 40-Pin connector to the 40-Pin port on **Raspberry Pi 5**.



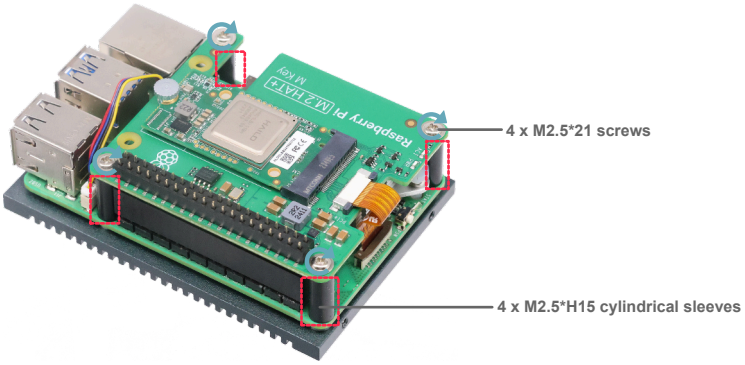

④Connect **Raspberry Pi M.2 HAT+** to **Raspberry Pi 5** via 40-Pin connector and plug in the PCIe cable into PCIe port of **Raspberry Pi 5**.



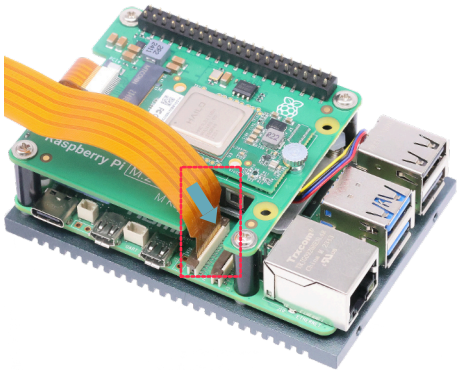

⑤Place the **Raspberry Pi 5** on the **ED-Pi5Case-EXT Bottom Cover** and align the screw holes.




⑥Place 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**.



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.




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

