FORTY ONE V5 Case Only For Raspberry Instruction Manual

Argon ONE V5
Designed for 🍓 Raspberry Pi 5

Aſ FORTY
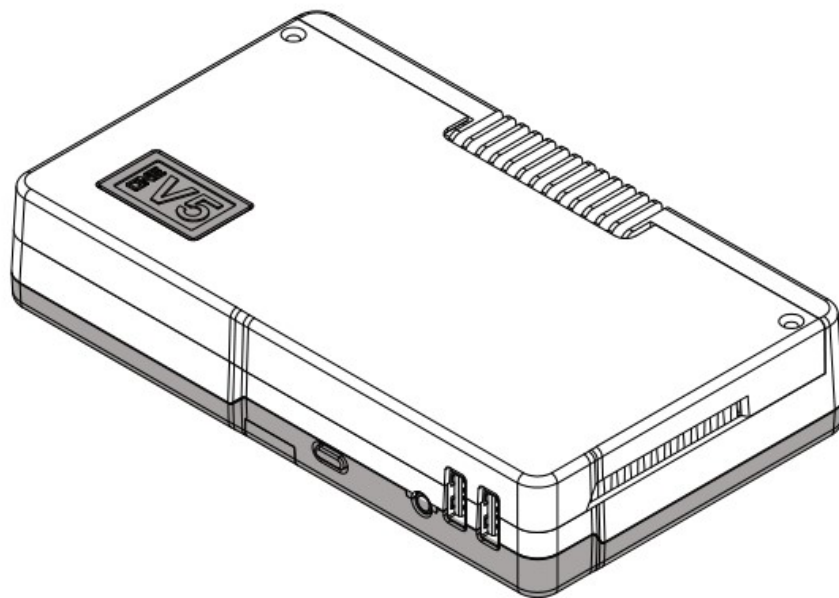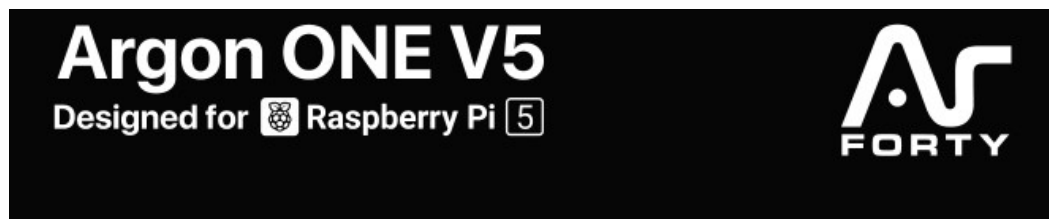
Instruction Manual

ARGON ONE V5 PARTS

A Argon ONE V5 Case Only
B Heatsink / Exhaust
C SD Card cover
D Power button
E Audio Out / Mic In
F 2x USB 3.0 Ports
G Air vents
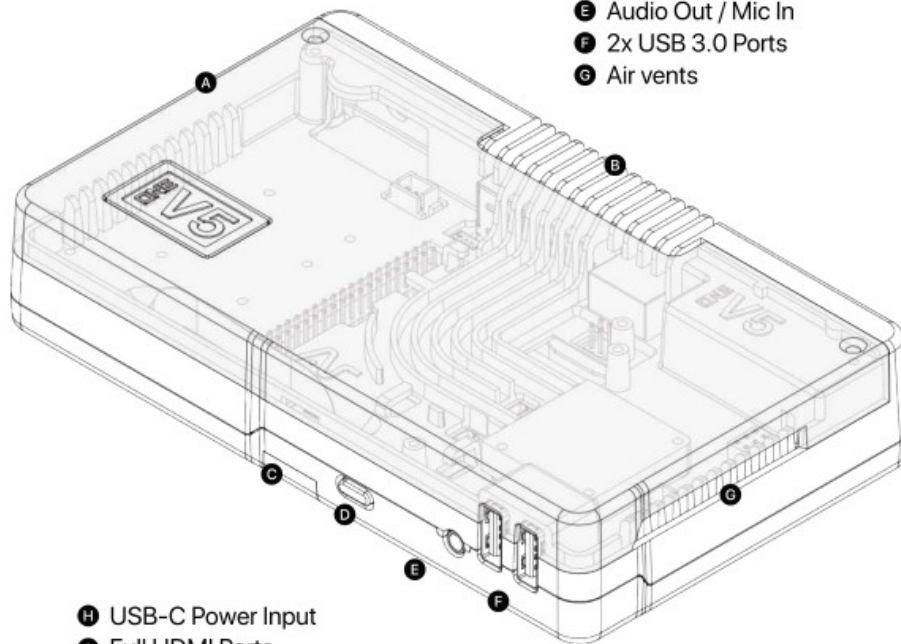
H USB-C Power Input
I Full HDMI Ports
J Ethernet Port
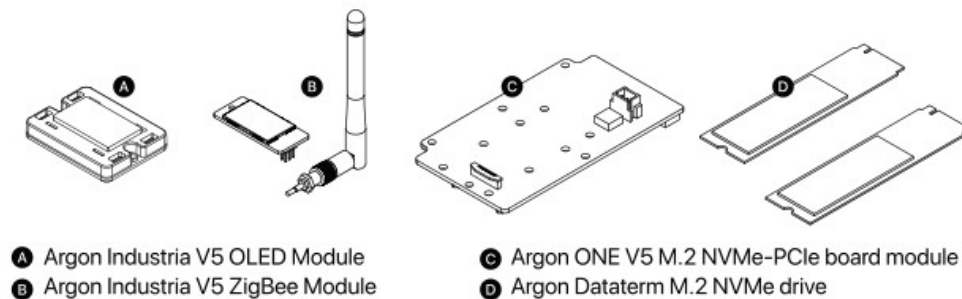**K** 2x USB 3.0 Ports
L 2x USB 2.0 Ports
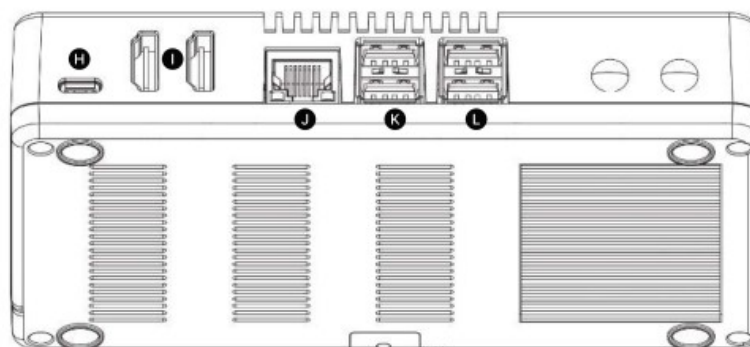
1 Argon ONE V5 Top case
2 ABS OLED cover
3 U-shaped PCIe Connector
4 Argon ONE V5 Middle case
5 Silcone cover
6 PWM 30mm Fan
7 Raspberry Pi 5 board *(not included)*
8 SD Card *(not included)*
9 Argon ONE V5 HDMI-Audio Board
10 Argon THRML M.2 NVMe heatsink
11 Argon ONE V5 Bottom case
12 8 pcs Flat head 2.5x6 screws
13 4 pcs Round head 2.5x8 screws
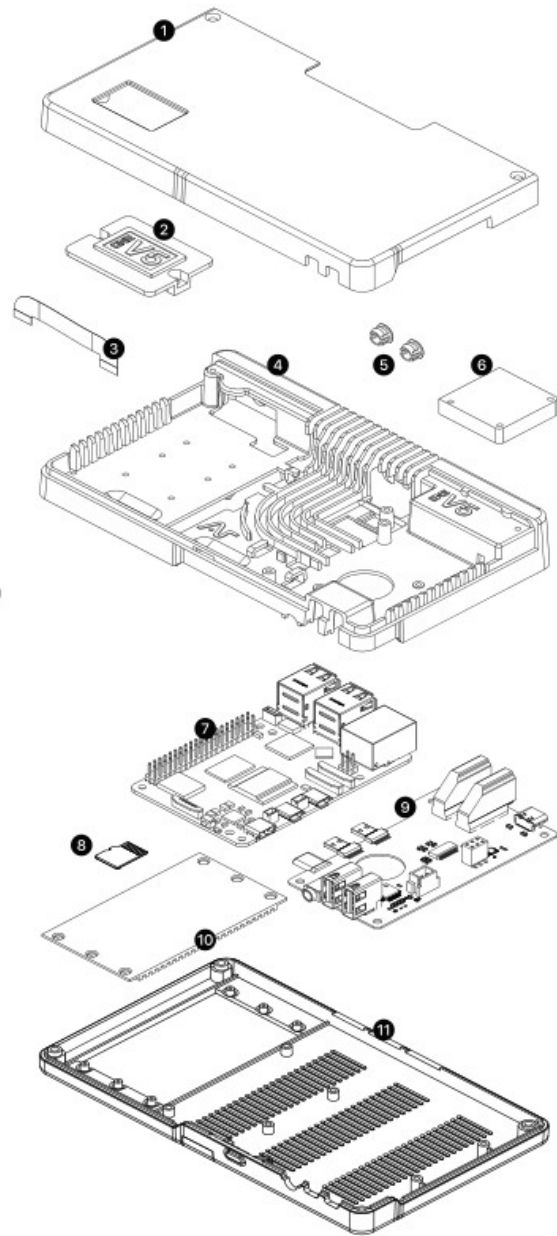
ARGON ONE V5 FEATURES

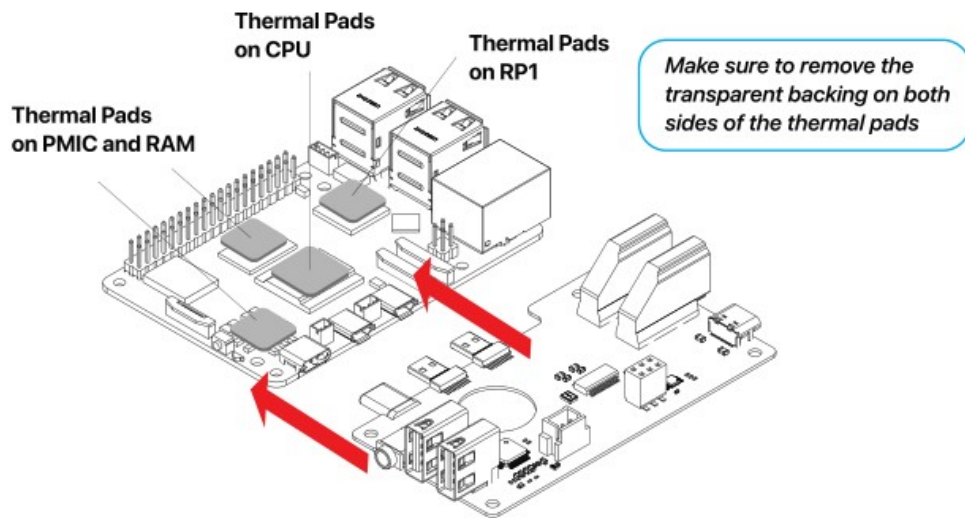| Durable and Functional Case Material for Passive Cooling	Whole top of the case is Injected aluminum alloy and injected ABS plastic bottom
More efficient Active Cooling	Blower type 30mm PWM actively controlled by the Raspberry Pi OS.
Built in DAC with MIC	Powered by **HS100B - DAC Chip** to provide the 3.5mm audio out and mic in functionality
2 Front USB 2.0 ports	By adding an **FE1.1S - USB Hub Chip** we are able to add additional 2 - USB 2.0 Ports
2 Regular HDMI	Converted the micro HDMI of the RPi 5 to Regular HDMI
GPIO Access	Full GPIO Access with Magnetic cover

ARGON ONE V5 ADD-ONS

- Ⓐ Argon Industria V5 OLED Module
- Ⓑ Argon Industria V5 ZigBee Module
- Ⓒ Argon ONE V5 M.2 NVMe-PCIe board module
- Ⓓ Argon Dataterm M.2 NVMe drive

| Argon ONE V5 M.2 NVMe-PCIe Expansion Boards with THRML Cooling	OPTIONS: Argon ONE V5 **SINGLE** M.2 NVMe PCIe Expansion Board Argon ONE V5 **DUAL** M.2 NVMe PCIe Expansion Board
Argon Industria V5 OLED Module	1.8 inch OLED Module
Argon Industria V5 ZigBEE Module	CC2562P Zigbee Chip for Home Assistant

ASSEMBLY INSTRUCTIONS

1. Connect the Raspberry Pi 5 to HDMI–USB2–Audio Board; and place the Silicon Thermal Pads on the CPU, RP1, & RAM Chips

Thermal Pads on CPU

Thermal Pads on RP1

Thermal Pads on PMIC and RAM

*Make sure to remove the transparent backing on both sides of the thermal pads*

2. Route the PWM 30mm Fan cable and NVMe Power cable through the guide posts at the rear of the Argon ONE V5 case, as seen in the image below.
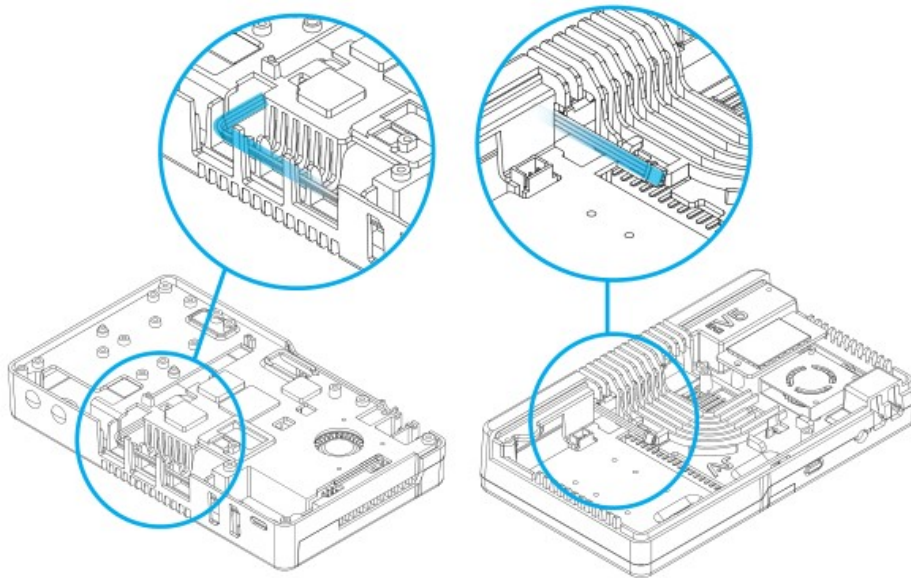
3. Place the Raspberry Pi 5 and HDMI-USB2-Audio Board assembly on the V5 Case as shown on the image below. Secure the 4 FLAT HEAD Screws.
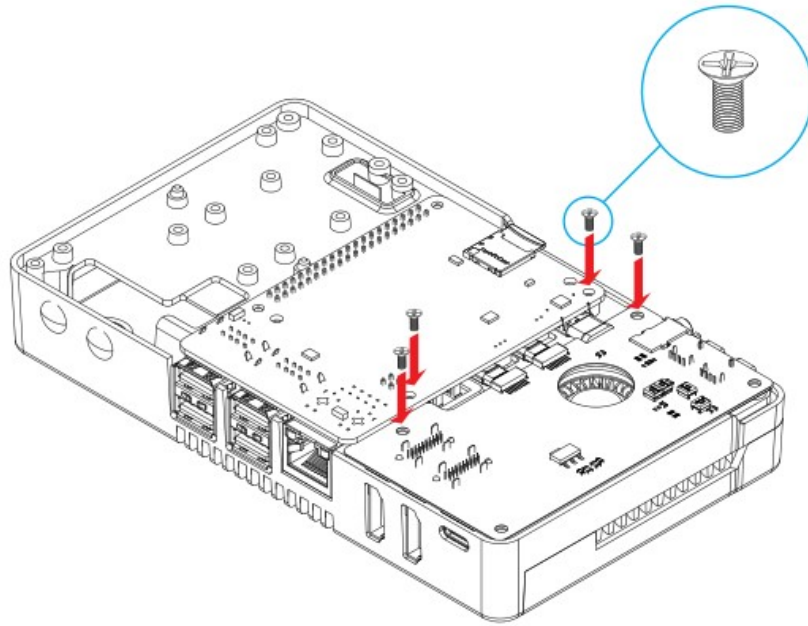
OPTIONAL: If you have the M.2 Expansion Boards, install your M.2 NVMe Drives as shown in the image. Add the blue silicon thermal pads on the NVMe Drives.

**Argon Dataterm M.2 NVMe drive**

Blue Thermal Pads
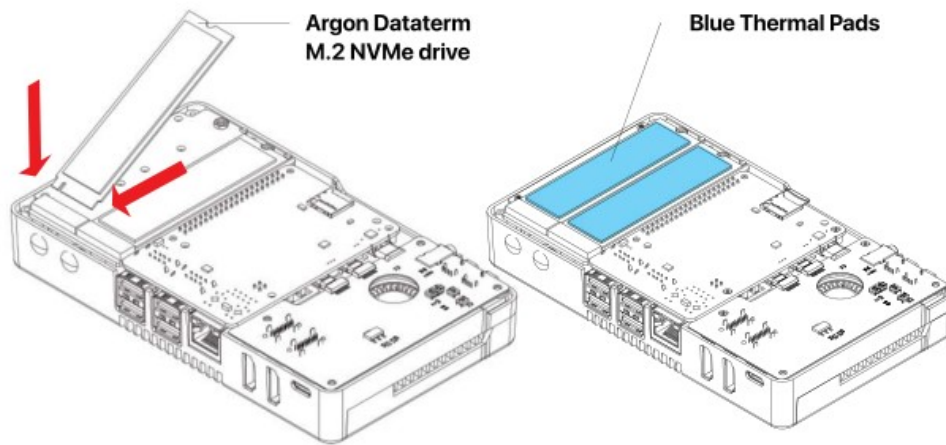
OPTIONAL: Connect the U-Shaped PCIe Connector to the NVMe Board and Raspberry Pi 5 PCIe port. Make sure that the COPPER side is facing the WHITE side of the clips of the Raspberry Pi 5.
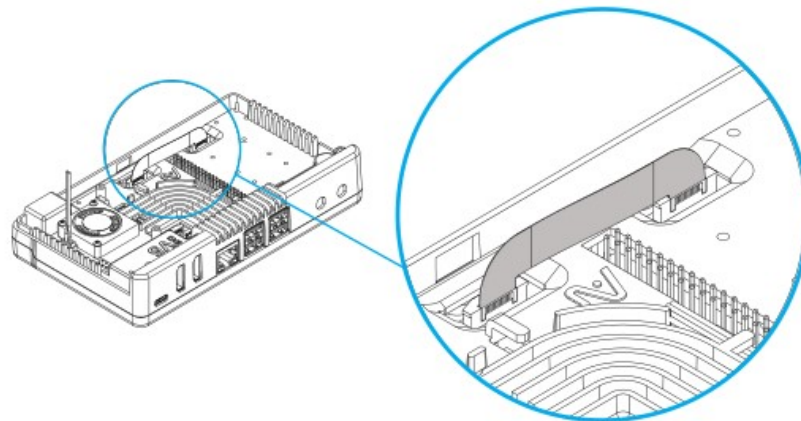
3. Secure the V5 Bottom with aluminum THRML heatsinks with 4 long ROUND screws at each corner.
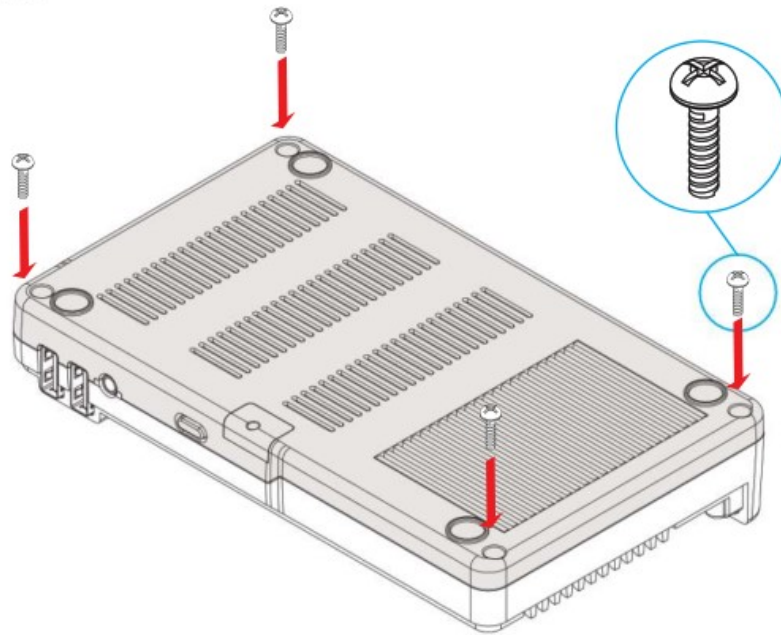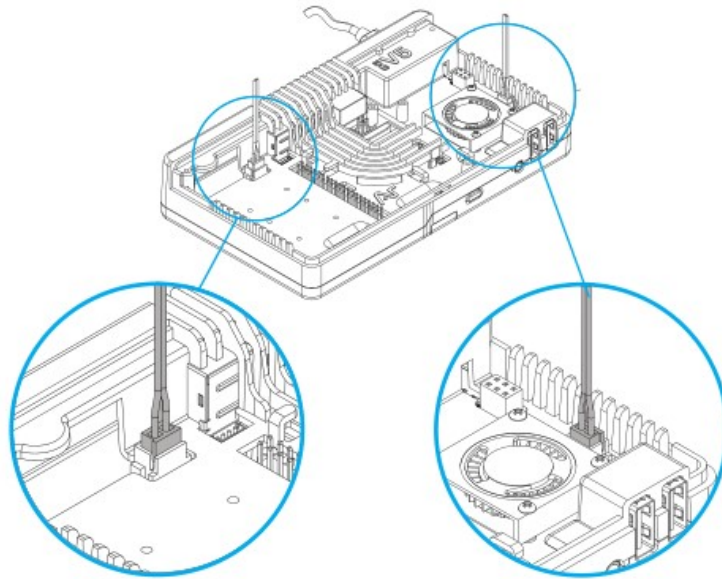
4. Connect the blower FAN cable with *colored wires* to the exposed Raspberry Pi 5 FAN Port.
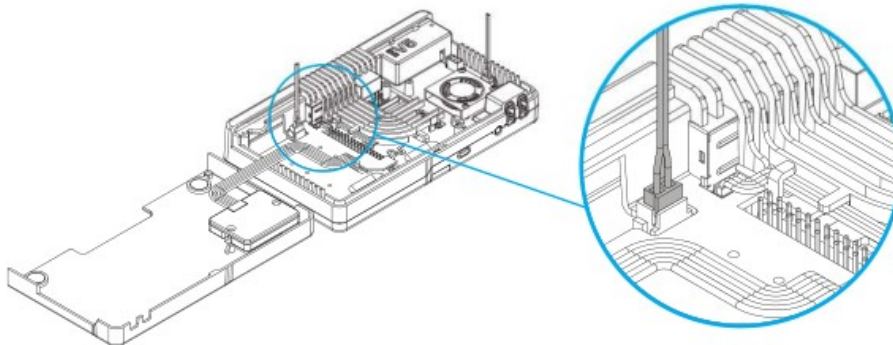
5. Connect the Supplemental Power Supply for the NVMe Boards, *(Black Wire)* as shown in the image.

Wire can be routed inside the case. *(Refer back to No. 2 for placement and location)*

OPTIONAL: Connect the Argon Industrial V5 OLED Module as shown in the image. Connect the OLED module to the first 8 GPIO pins.

Make sure to remove the plastic placeholder V5 logo before installing the OLED module
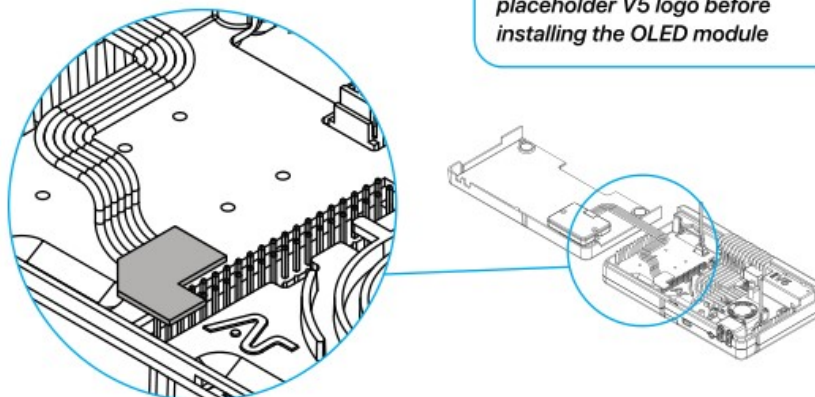
OPTIONAL: Connect the Argon Industrial V5 ZigBEE Module as shown in the image.
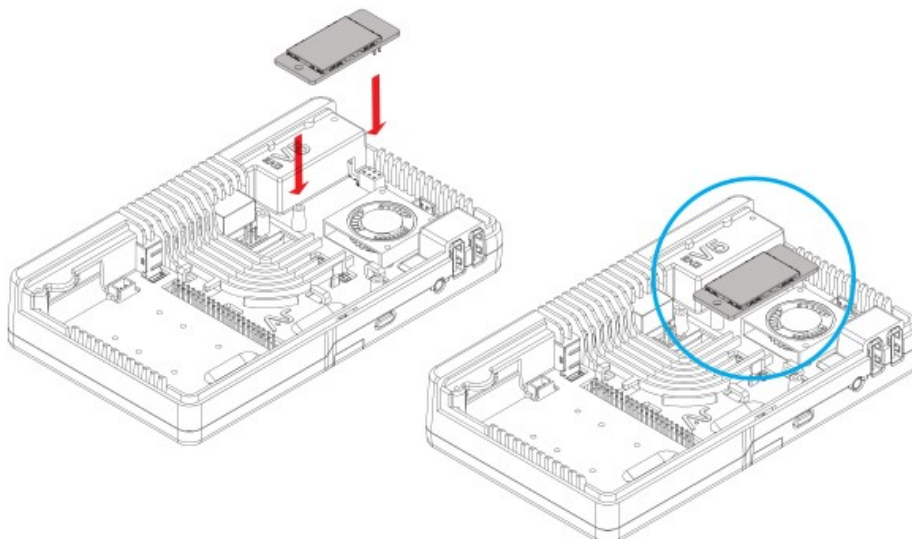
ENABLING THE USB PORTS AND MIC IN AND AUDIO OUT PORTS

OPTION 1: Install the Argon ONE V5 Script after you have installed your Raspberry Pi OS. Follow the Instructions in the next Section.

OPTION 2: Edit the /boot/firmware/config.txt file by adding the line:

```
dtoverlay=dwc2,dr_mode=host
```

INSTALLING THE ARGON ONE V5 SCRIPT

1. Connect to the Internet and execute in the Terminal.

```
curl https://download.argon40.com/argon1v5.sh | bash
```

2. Reboot.

3. Follow the instructions in the **Argon Configuration Tool** to change settings and enable full functionality of the Argon ONE V5 Case

UNINSTALLING THE ARGON ONE V5 SCRIPT

To uninstall the **Argon ONE V5** script you may do so by clicking the **Argon ONE V5 Desktop icon**. You may also remove the script via Terminal Shell by typing:

```
argonone-uninstall
```

Always reboot after changing any configuration or uninstallation for the revised settings to take effect.

ARGON PWR UPS for ARGON ONE V5 SETTINGS

Go to the **Argon Configuration Tool** to INSTALL and ADJUST settings of the ARGON PWR UPS
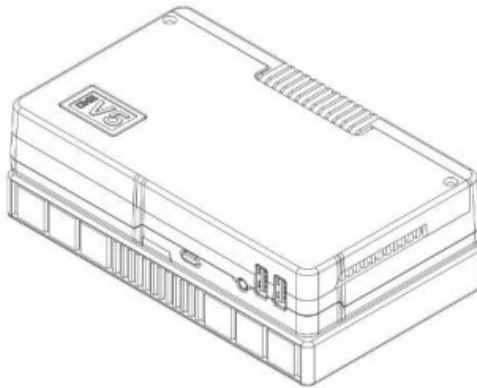
ARGON ONE V5 with ARGON PWR UPS
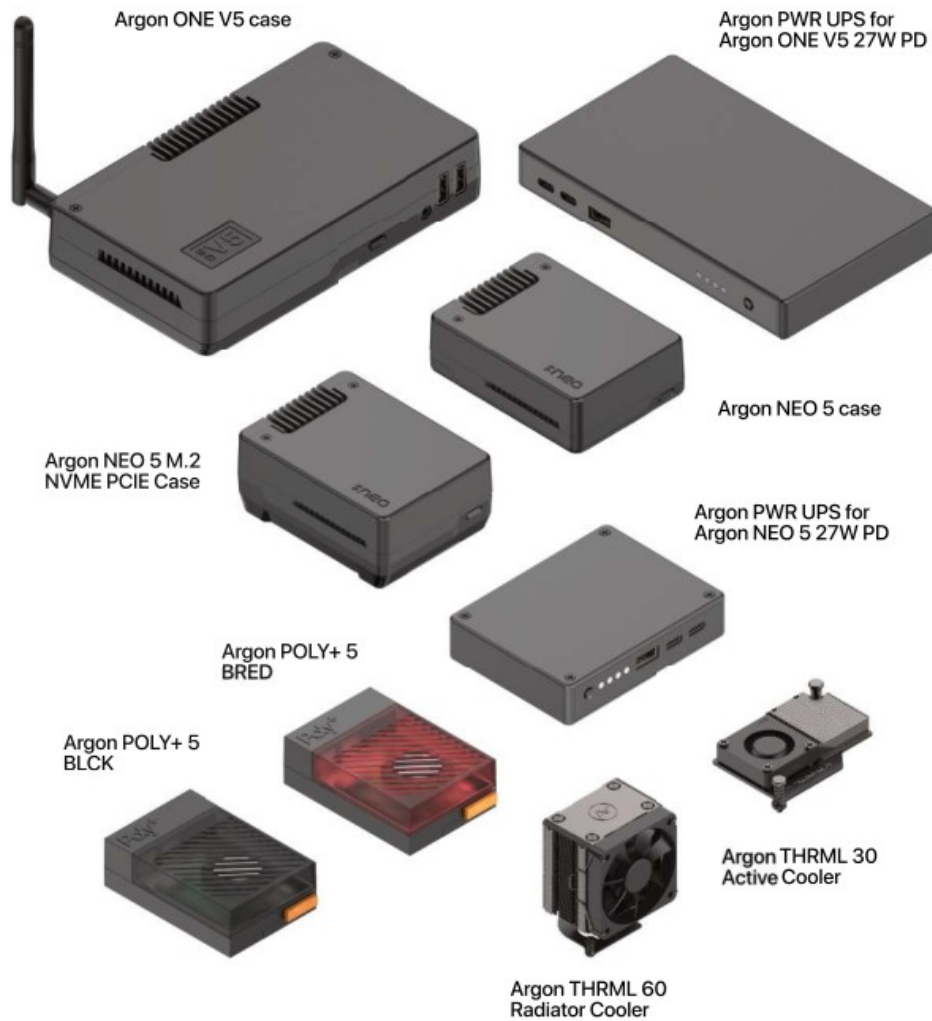
RECOMMENDED POWER SUPPLY & UPS

Argon PWR GaN 27W Power Delivery
https://argon40.com/products/argon-pwr-gan-usb-c-pd-power-supply-27-watts

Argon PWR UPS for Argon ONE V5 27W PD
https://argon40.com/products/argon-pwr-ups-for-argon-one-v5-27w-pd

2025 Argon40 Product Catalog for Raspberry Pi 5

Argon ONE V5 case

Argon PWR UPS for
Argon ONE V5 27W PD

Argon NEO 5 case

Argon NEO 5 M.2
NVME PCIE Case

Argon PWR UPS for
Argon NEO 5 27W PD

Argon POLY+ 5
BRED

Argon POLY+ 5
BLCK

Argon THRML 30
Active Cooler

Argon THRML 60
Radiator Cooler

Visit **Argon40 Resources** website for more information:
https://argon40.com/blogs/argon-resources/argon-one-v5-instruction-manual

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Documents / Resources

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References

- [User Manual](#)

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