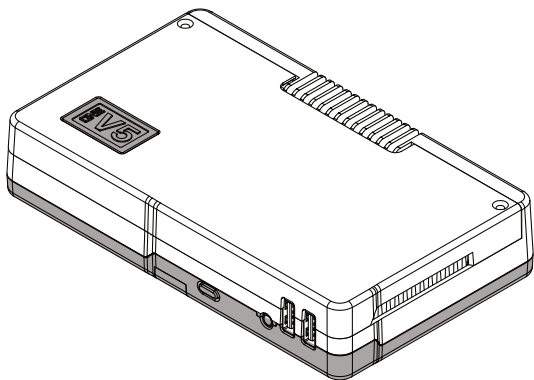


# Argon ONE V5

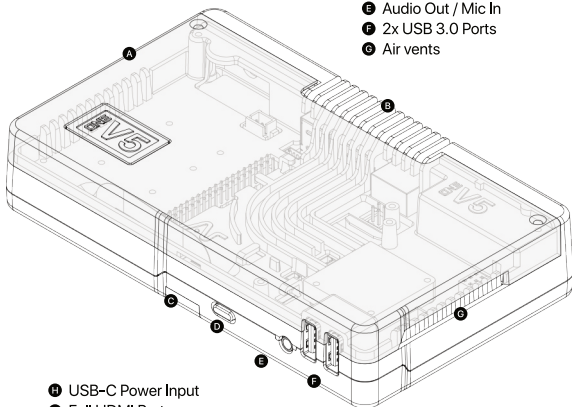
Designed for  Raspberry Pi 



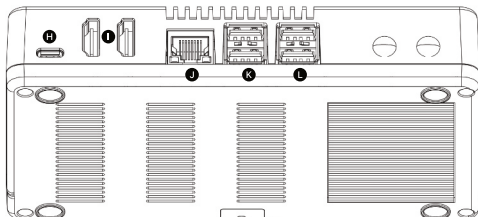
Instruction Manual

# 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

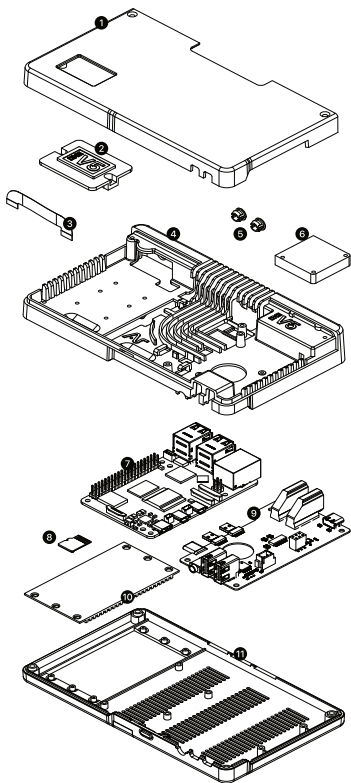


- H** USB-C Power Input
- I** Full HDMI Ports
- J** Ethernet Port
- K** 2x USB 3.0 Ports
- L** 2x USB 2.0 Ports



# ARGON ONE V5 PARTS

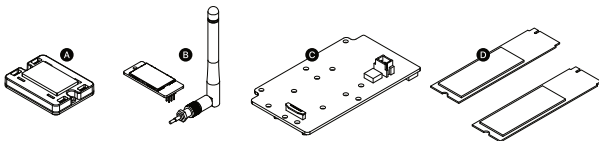
- ❶ Argon ONE V5 Top case
- ❷ ABS OLED cover
- ❸ U-shaped PCIe Connector
- ❹ Argon ONE V5 Middle case
- ❺ Silicone cover
- ❻ PWM 30mm Fan
- ❼ Raspberry Pi 5 board *(not included)*
- ❽ SD Card *(not included)*
- ❾ Argon ONE V5 HDMI-Audio Board
- ❿ Argon THRML M.2 NVMe heatsink
- ⓫ Argon ONE V5 Bottom case
- ⓬ 8 pcs Flat head 2.5x6 screws
- ⓭ 4 pcs Round head 2.5x8 screws



## ARGON ONE V5 FEATURES

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

## ARGON ONE V5 ADD-ONS



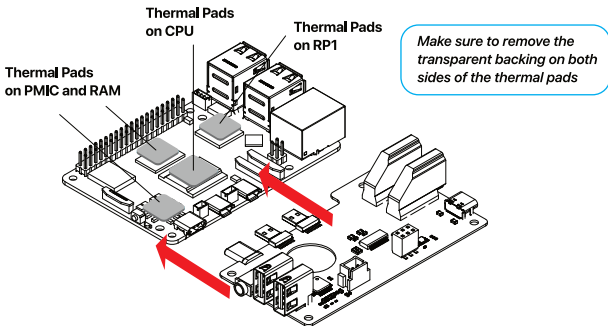
- A** Argon Industria V5 OLED Module  
**B** Argon Industria V5 ZigBee Module

- C** Argon ONE V5 M.2 NVMe-PCIe board module  
**D** Argon Dataterm M.2 NVMe drive

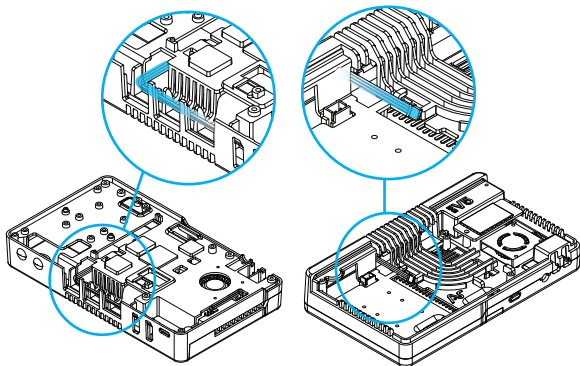
<b>Argon ONE V5 M.2 NVMe-PCIe Expansion Boards with THRML Cooling</b>	OPTIONS: Argon ONE V5 <b>SINGLE</b> M.2 NVMe PCIe Expansion Board Argon ONE V5 <b>DUAL</b> M.2 NVMe PCIe Expansion Board
<b>Argon Industria V5 OLED Module</b>	1.8 inch OLED Module
<b>Argon Industria V5 ZigBEE Module</b>	CC2562P Zigbee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

# ASSEMBLY INSTRUCTIONS

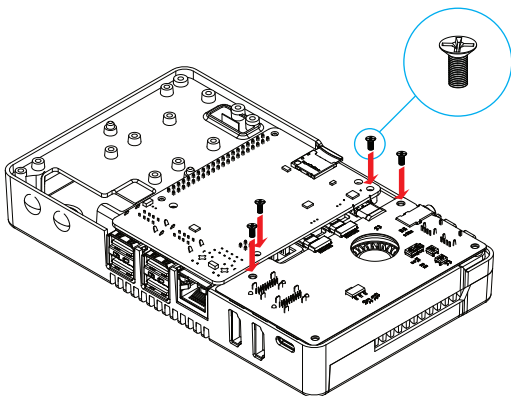
1. Connect the Raspberry Pi 5 to HDMI-USB2-Audio Board; and place the Silicon Thermal Pads on the CPU, RP1, & RAM Chips



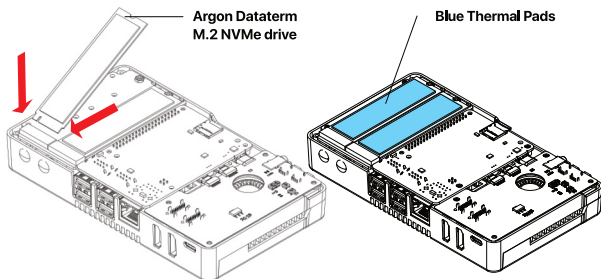
2. Route the PWM 30mm Fan cable and NVMe Power cable through the guide posts at the rear of the Argon ONE V5 case, as seen in the image below.



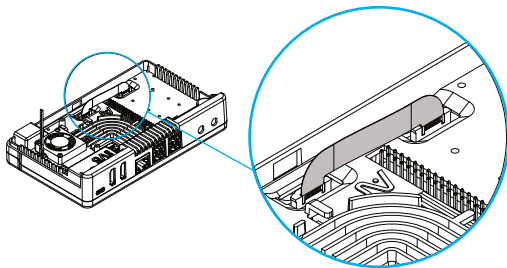
3. Place the Raspberry Pi 5 and HDMI-USB2-Audio Board assembly on the V5 Case as shown on the image below. Secure the 4 FLAT HEAD Screws.



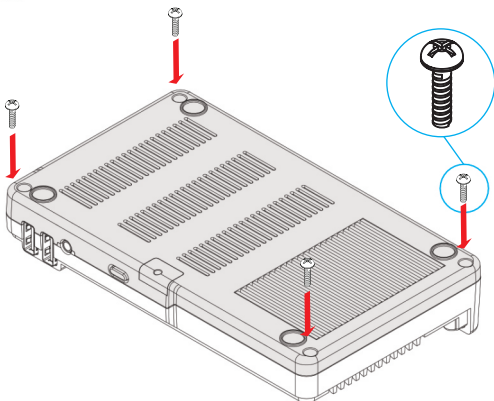
**OPTIONAL:** If you have the M.2 Expansion Boards, install your M.2 NVMe Drives as shown in the image. Add the blue silicon thermal pads on the NVMe Drives.



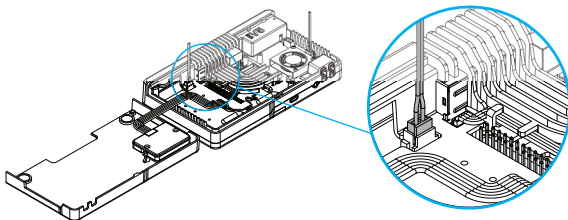
**OPTIONAL:** Connect the U-Shaped PCIe Connector to the NVMe Board and Raspberry Pi 5 PCIe port. Make sure that the COPPER side is facing the WHITE side of the clips of the Raspberry Pi 5.



3. Secure the V5 Bottom with aluminum THRML heatsinks with 4 long ROUND screws at each corner.



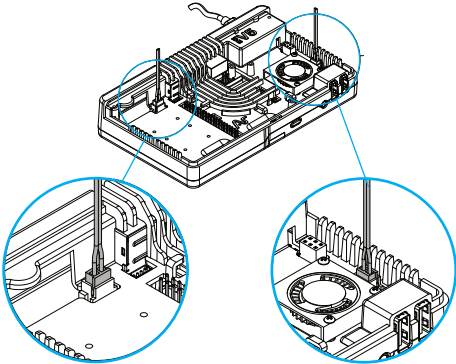
4. Connect the blower FAN cable with **colored wires** to the exposed Raspberry Pi 5 FAN Port.



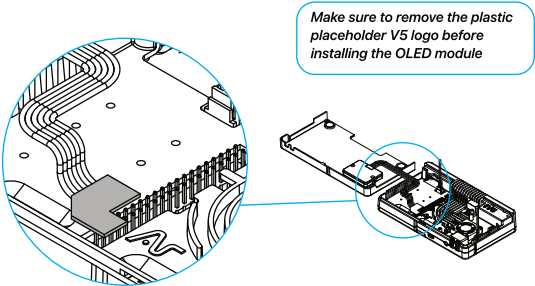


5. Connect the Supplemental Power Supply for the NVMe Boards, (**Black Wire**) as shown in the image.

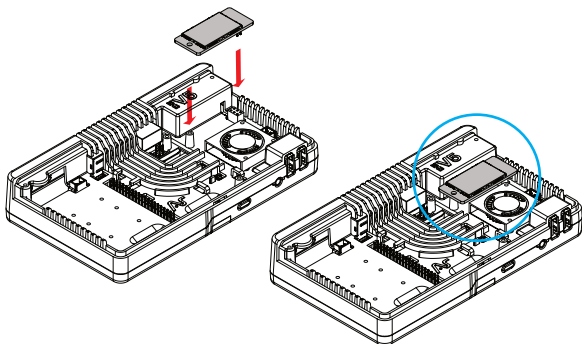
Wire can be routed inside the case. (*Refer back to No. 2 for placement and location*)



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



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

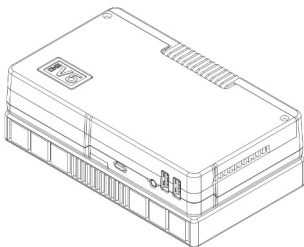
To uninstall the **Argon ONE V5** script you may do so by clicking the **Argon ONE V5 Desktop icon**. You may also remove the script via Terminal Shell by typing:

```
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

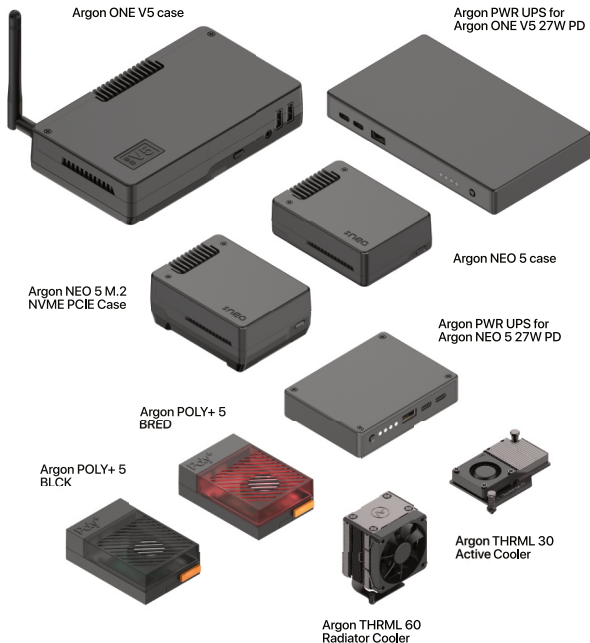
**Argon PWR GaN 27W Power Delivery**

<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



Visit **Argon40 Resources** website for more information:

<https://argon40.com/blogs/argon-resources/argon-one-v5-instruction-manual>