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› ElectroCookie Raspberry Pi 5 Aluminum Mini Tower Case Instruction Manual (Model: Raspi DT Case\_Neon)

## ElectroCookie Raspi DT Case\_Neon

# ElectroCookie Raspberry Pi 5 Aluminum Mini Tower Case Instruction Manual

Model: Raspi DT Case\_Neon

## 1. PRODUCT OVERVIEW

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The ElectroCookie Raspberry Pi 5 Aluminum Mini Tower Case is designed to provide robust protection and efficient cooling for your Raspberry Pi 5. Featuring a premium aluminum construction, an active CPU cooling system with a temperature-controlled RGB PWM fan, and easy access to all essential ports, this case enhances both the functionality and aesthetics of your Raspberry Pi 5 setup. It is specifically compatible with Raspberry Pi 5 and not suitable for Raspberry Pi 4 due to differing port layouts.



Figure 1.1: ElectroCookie Raspberry Pi 5 Aluminum Mini Tower Case (Black variant shown).

## 2. PACKAGE CONTENTS

Please verify that all the following items are included in your package:

- Aluminum Body
- Covers (Top and Bottom)
- Tower Heatsink
- Low Profile Heatsink
- Screwdriver
- Spring Push Pins
- Cooling Fan (RGB PWM)
- GPIO Pin Headers
- Power Button
- Thermal Conductive Pads
- Rubber Feet
- GPIO Map Sticker
- Screws
- Washers

- Standoffs



Figure 2.1: All components included in the ElectroCookie Raspberry Pi 5 Case package.

### 3. SETUP AND ASSEMBLY INSTRUCTIONS

Follow these steps carefully to assemble your ElectroCookie Raspberry Pi 5 Mini Tower Case. For visual guidance, refer to the assembly diagram below and the official product video.

#### Step-by-Step Guide

1. **Prepare Raspberry Pi 5:** Apply the thermal conductive pads to the designated chips on your Raspberry Pi 5 board. Ensure proper placement for optimal heat transfer.
2. **Attach Heatsinks:** Secure the low-profile heatsink and the tower heatsink with the cooling fan onto the Raspberry Pi 5 board using the provided screws and spring push pins.
3. **Install Raspberry Pi 5 into Case:** Carefully place the assembled Raspberry Pi 5 board into the aluminum body of the case, aligning the ports with the case cutouts.
4. **Connect Cooling Fan:** Connect the RGB PWM fan cable to the appropriate fan header on the Raspberry Pi 5 board.
5. **Attach Covers:** Secure the top and bottom covers of the case using the provided screws.
6. **Attach Rubber Feet:** Apply the rubber feet to the bottom of the case for stability and to prevent scratching surfaces.
7. **Apply GPIO Pin Map Sticker:** Affix the GPIO map sticker to the designated area on the case for easy reference to the GPIO pins.



Figure 3.1: Detailed assembly steps for the ElectroCookie Raspberry Pi 5 Case.

Your browser does not support the video tag.

Video 3.1: Official ElectroCookie Raspberry Pi 5 Mini Tower Case assembly guide. This video demonstrates the complete assembly process, including heatsink installation, fan connection, and securing the case components.

## 4. OPTIONAL: NVMe SSD BOOT SETUP

For users wishing to utilize an M.2 NVMe SSD as a boot drive for their Raspberry Pi 5, follow these additional steps. This process requires a compatible M.2 HAT NVMe SSD Shield (sold separately).

1. **Install FFC Cable and Standoffs:** Connect the Flexible Flat Cable (FFC) to the Raspberry Pi 5's PCIe connector and install the long standoffs.
2. **Secure SSD Shield:** Attach the M.2 HAT NVMe SSD Shield to the Raspberry Pi 5 using screws, ensuring the FFC cable is properly connected to the shield.
3. **Insert NVMe SSD:** Carefully insert your M.2 NVMe SSD into the shield and secure it.
4. **Configure Boot Order:** Access the Raspberry Pi OS desktop, open a terminal, and run `sudo raspi-config`. Navigate to 'Advanced Options' -> 'Boot Order' and select 'NVMe/USB Boot'. This will update the bootloader to prioritize booting from the NVMe SSD.
5. **Flash OS to SSD:** Use the Raspberry Pi Imager tool (available on Raspberry Pi's official website) to flash your desired Raspberry Pi OS image directly onto the NVMe SSD.
6. **Reboot:** After flashing the OS and rebooting, your Raspberry Pi 5 will boot from the NVMe SSD, offering significantly faster performance.

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Video 4.1: This segment of the official product video demonstrates the process of setting up an NVMe SSD as a boot drive for the Raspberry Pi 5 within the ElectroCookie case, including physical installation and software configuration.

## 5. OPERATING INSTRUCTIONS

### Power On/Off

- To power on your Raspberry Pi 5, press the soft-touch power button located on the front of the case.

- To power off, perform a proper shutdown through the operating system. The power button can also be configured for safe shutdown via software.

## Cooling Fan Operation

- The RGB PWM fan automatically adjusts its speed based on the CPU temperature of your Raspberry Pi 5.
- The fan may not spin if the CPU is cool or may run continuously if no OS or bootable drive is available to control it.
- The RGB lighting is not programmable and changes color automatically.

## Port Access

- All essential ports, including GPIO pins, SD card slot, USB, Ethernet, Power, and Micro HDMI ports, remain fully accessible through the case cutouts.

## 6. MAINTENANCE

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### Cleaning

- Periodically clean the cooling fan and ventilation holes to prevent dust buildup, which can impede airflow and cooling efficiency. Use a soft brush or compressed air.
- Wipe the aluminum case with a soft, dry cloth. Avoid abrasive cleaners.

### Thermal Pads

- If you disassemble the case for any reason, inspect the thermal conductive pads. If they appear damaged or worn, replace them to maintain optimal heat transfer.

## 7. TROUBLESHOOTING

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### Fan Not Spinning

- The fan is temperature-controlled. It may not spin if the CPU temperature is below its activation threshold.
- Ensure a proper operating system is installed and running, as the OS controls the fan's PWM function.
- Check the fan cable connection to the Raspberry Pi 5 board.

### Lighting Issues

- The RGB lighting is not programmable. Its color-changing effect is automatic.

### Compatibility

- This case is designed exclusively for the Raspberry Pi 5. It is not compatible with Raspberry Pi 4 due to differences in USB and Ethernet port placement.

## 8. SPECIFICATIONS

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Feature	Specification
Brand	ElectroCookie
Model Name	Raspi DT Case_Neon
Material	Aluminum
Cooling Method	Air (Active CPU Cooling with PWM Fan)
Fan Size	120 Millimeters
Item Weight	9.9 ounces (0.28 Kilograms)
Package Dimensions	4.72 x 4.72 x 3.15 inches

## 9. WARRANTY AND SUPPORT

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This product is covered by the standard Amazon return and refund policy. For specific warranty details, please refer to your purchase documentation or contact the seller directly.

For further assistance, technical support, or inquiries, please visit the [ElectroCookie Store on Amazon](#).