

[manuals.plus](#) /

› [db-tronic](#) /

› [Raspberry Pi 5 8GB Kit User Manual](#)

**db-tronic RP5-8GB-BLACK**

# Raspberry Pi 5 8GB Kit User Manual

Brand: db-tronic | Model: RP5-8GB-BLACK

## 1. INTRODUCTION

The db-tronic Raspberry Pi 5 8GB Kit provides a powerful and versatile single-board computer solution, ideal for a wide range of projects from home automation and media centers to retro gaming and server applications. This comprehensive kit includes the Raspberry Pi 5 with 8GB RAM, a 27W USB-C power supply, a black case with an active cooling fan, a 64GB memory card, and a 1-meter 4K Micro HDMI cable, ensuring you have everything needed to get started.

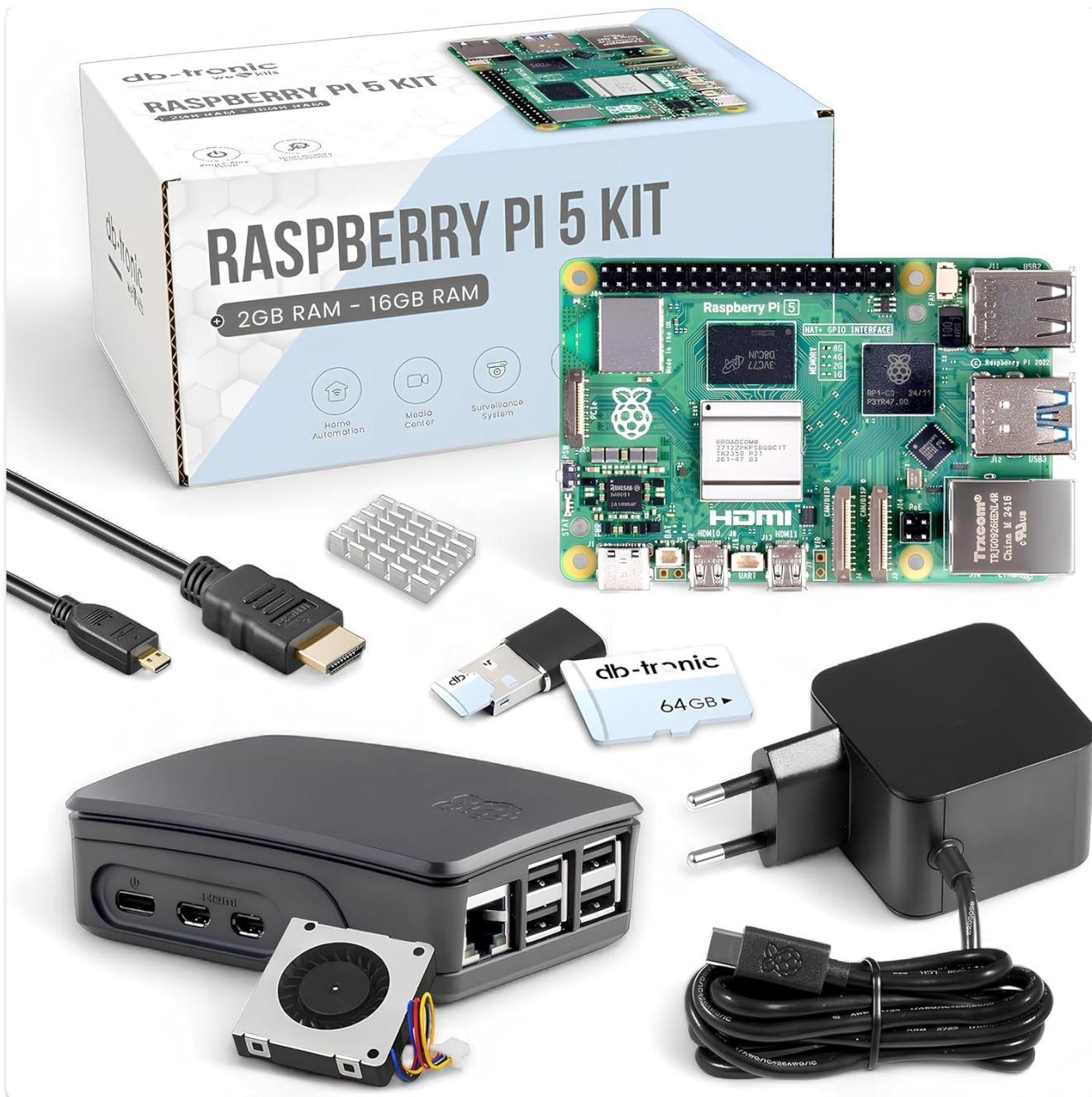


Image: Overview of the db-tronic Raspberry Pi 5 8GB Kit, showing the main board, case, power supply, memory card, and cables.

## Key Features:

- Powerful Performance:** Equipped with 8GB RAM, the Raspberry Pi 5 delivers robust performance for demanding applications.
- Efficient Cooling:** The included case with an active fan ensures optimal temperature control, preventing overheating during intensive use.
- Reliable Power:** The 27W USB-C power supply provides stable and efficient energy for maximum performance and safe operation.
- 4K Ready:** Connect to high-resolution monitors and TVs with the included 1-meter 4K Micro HDMI cable.
- Complete Kit:** Everything you need to start your projects, including a 64GB memory card and USB reader.

## 2. WHAT'S INCLUDED

Your db-tronic Raspberry Pi 5 8GB Kit comes with all the essential components to begin your projects immediately. Please verify that all items listed below are present in your package.

# What's Included



**Raspberry Pi 5**  
8GB RAM



**Official case**  
+ Active Fan



**Official power supply**  
27W



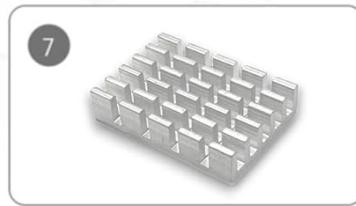
**Memory card 64 GB**  
up to 100 MB/s



**USB Reader**  
USB 2.0



**4K Micro HDMI cable**  
1 meter long



**Aluminum  
heat sink**



**Premium db-tronic  
Packaging**

Image: A visual representation of all components included in the db-tronic Raspberry Pi 5 8GB Kit.

- Raspberry Pi 5 8GB RAM:** The core single-board computer with 8GB of high-speed RAM for demanding tasks.

## Discover endless possibilities

This complete package contains everything you need to get started with creative projects in the areas of **smart home**, **robotics**, or **programming**. Bring your ideas to life and take the first step on your technical adventures!



Maximum power in **credit card format!**

Image: The Raspberry Pi 5 board, highlighting its ports and components.

- Official Case with Active Fan:** A durable black enclosure designed to protect your Raspberry Pi 5, featuring an integrated active cooling fan to maintain optimal operating temperatures.

# Raspberry Pi 5

## Quad-Core 8 GB RAM

⊕ up to 3x the performance of its predecessor.

• • •

The Raspberry Pi 5 with **8 GB** RAM offers impressive performance and versatility for all projects. With its **powerful processor** and **improved GPU**, it is perfect for demanding applications.



Quad Core  
Cortex A76



Broadcom  
BCM2712



Power 5V  
5A DC

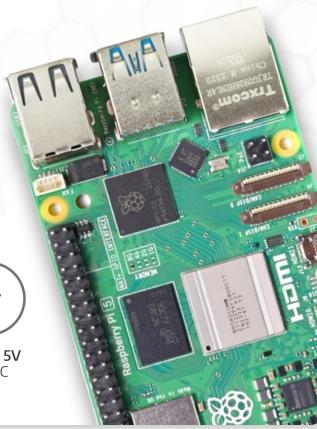


Image: The official Raspberry Pi 5 case, shown with its active cooling fan.

3. **Official 27W USB-C Power Supply:** A dedicated power adapter providing stable 5.1V / 5.0A output, essential for the Raspberry Pi 5's performance.

### Official Case with Fan

⊕ Aluminium heat sink

• • •

The official case not only offers **protection** and an attractive appearance, but also ensures effective **cooling** with the **built-in fan** to best support the performance of your Raspberry Pi 5.



Perfect  
Airflow



Active  
Fan



Easy  
assembly



Image: The 27W USB-C power supply with its cable.

4. **64GB Memory Card:** A high-speed 64GB MicroSD card, pre-formatted and ready for operating system installation.

## Official Power Supply 27W

• 1,5 Meter long, EU Plug

• • •

Experience **full power** with the **official** power adapter. Specially designed to meet your requirements, this power adapter ensures stable and **reliable power** for your projects and applications.



Image: The 64GB MicroSD memory card alongside its USB reader.

5. **USB Reader:** A convenient USB adapter for easily flashing operating systems onto the MicroSD card from your computer.
6. **1-meter 4K Micro HDMI Cable:** A high-quality cable for connecting your Raspberry Pi 5 to a display, supporting 4K resolution.

## Memory Card 64GB

• USB-Reader

• • •

Maximize the performance of your Raspberry Pi with this memory card. With a **fast data transfer rate** and a practical USB reader, this memory card offers the **ideal solution** for your application.



Image: The 1-meter 4K Micro HDMI to HDMI cable.

## 3. SETUP GUIDE

Follow these steps to set up your Raspberry Pi 5 kit.

### 1. Prepare the MicroSD Card:

- Insert the 64GB MicroSD card into the provided USB reader, then connect the reader to your computer.
- Download the official Raspberry Pi Imager software from the Raspberry Pi website ([www.raspberrypi.com/software/](http://www.raspberrypi.com/software/)).
- Use Raspberry Pi Imager to select your desired operating system (e.g., Raspberry Pi OS) and flash it onto the 64GB MicroSD card. Ensure the correct drive is selected to avoid data loss on other storage devices.
- Once the flashing process is complete, safely eject the MicroSD card from your computer.

## 2. Assemble the Case and Fan:

- Carefully insert the prepared MicroSD card into the MicroSD card slot on the Raspberry Pi 5 board.
- Place the Raspberry Pi 5 board into the bottom part of the black case. Ensure it aligns correctly with the mounting points and ports.
- Connect the active cooling fan's power cable to the designated fan header on the Raspberry Pi 5 board (usually a small 2-pin or 4-pin connector near the GPIO pins). Refer to the Raspberry Pi 5 documentation for exact pinout.
- Attach the top part of the case, ensuring it snaps securely into place.

## 3. Connect Peripherals:

- Connect one end of the 1-meter 4K Micro HDMI cable to the Micro HDMI port on your Raspberry Pi 5 and the other end to an HDMI input on your monitor or TV.
- Connect your USB keyboard and mouse to the USB 2.0 or USB 3.0 ports on the Raspberry Pi 5.
- If using a wired network, connect an Ethernet cable to the Ethernet port.

## 4. Power On:

- Connect the 27W USB-C power supply to the USB-C power input port on the Raspberry Pi 5.
- Plug the power supply into a wall outlet. The Raspberry Pi 5 should automatically power on and begin the boot process.
- Follow the on-screen instructions for the initial setup of your chosen operating system.

## 4. OPERATING INSTRUCTIONS

Once your Raspberry Pi 5 is set up, you can begin using it for various applications.

### First Boot and Initial Configuration:

- Upon first boot, the Raspberry Pi OS will guide you through a setup wizard. This includes setting your country, language, timezone, creating a user password, and connecting to a Wi-Fi network.
- It is recommended to update your system after the initial setup. Open a terminal and run: `sudo apt update` and `sudo apt full-upgrade -y`.

### Network Connectivity:

- **Wi-Fi:** If you skipped Wi-Fi setup during the first boot, you can connect via the network icon in the top right corner of the desktop.
- **Ethernet:** For a wired connection, simply plug an Ethernet cable into the Raspberry Pi 5's Ethernet port. It should automatically obtain an IP address.

### Software Installation:

Most software can be installed via the command line using the APT package manager:

- To install a package: `sudo apt install [package-name]`
- To remove a package: `sudo apt remove [package-name]`

Alternatively, you can use the 'Recommended Software' application found in the 'Preferences' menu for a graphical way to install common applications.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Raspberry Pi 5.

## Fan Cleaning:

- Over time, dust can accumulate on the active cooling fan, reducing its efficiency.
- Periodically, with the Raspberry Pi 5 powered off and unplugged, use a can of compressed air or a soft brush to gently clean dust from the fan blades and vents of the case.
- Avoid touching the fan blades directly with your fingers or applying excessive force.

## Software Updates:

- Regularly update your operating system and installed software to ensure security, stability, and access to the latest features.
- Open a terminal and run: `sudo apt update` followed by `sudo apt full-upgrade -y`.

## Safe Shutdown:

- Always shut down your Raspberry Pi 5 properly before disconnecting power to prevent data corruption on the MicroSD card.
- From the desktop, go to the Raspberry Pi icon (top-left corner) > Shutdown > Shutdown.
- Alternatively, in the terminal, use: `sudo shutdown -h now`.

## 6. TROUBLESHOOTING

Here are solutions to common issues you might encounter.

### No Power / No Boot:

- **Check Power Supply:** Ensure the 27W USB-C power supply is correctly plugged into the Raspberry Pi 5 and a working wall outlet. The power LED on the Pi should illuminate.
- **MicroSD Card:** Verify the MicroSD card is properly inserted and has a valid operating system flashed onto it. Try re-flashing the OS if unsure.
- **Connections:** Double-check all internal connections, especially the fan cable if the Pi is not booting at all.

### No Display Output:

- **HDMI Cable:** Ensure the 4K Micro HDMI cable is securely connected to both the Raspberry Pi 5 and your monitor/TV. Try a different HDMI port on your display.
- **Monitor Input:** Confirm your monitor/TV is set to the correct HDMI input source.
- **Power Cycle:** Try powering off both the Raspberry Pi and the display, then power them back on.

### Overheating:

- **Fan Connection:** Ensure the active cooling fan is correctly connected to the Raspberry Pi 5's fan header and is spinning.
- **Airflow:** Make sure the case vents are not obstructed and the Raspberry Pi is in a well-ventilated area.
- **Workload:** Reduce the workload on the Raspberry Pi if it's consistently running hot.

### Network Connectivity Issues:

- **Wi-Fi:** Re-enter your Wi-Fi password. Ensure your Wi-Fi network is broadcasting and within range.
- **Ethernet:** Check the Ethernet cable for damage and ensure it's securely plugged into both the Pi and your

router/switch. Verify router settings.

- **Drivers:** Ensure your operating system is up to date, as network drivers are included in OS updates.

## 7. SPECIFICATIONS

Detailed technical specifications for the Raspberry Pi 5 8GB Kit components.

Feature	Specification
Brand	db-tronic
Model Number	RP5-8GB-BLACK
Operating System	Linux (User-installed)
RAM Size	8 GB
Memory Storage Capacity	64 GB (MicroSD Card)
CPU Model	Cortex (Quad-Core)
CPU Speed	2.4 GHz
Connectivity Technology	Ethernet, Wi-Fi (2.4 GHz & 5 GHz), Bluetooth 5.0 BLE
USB Ports	4 (2x USB 3.0, 2x USB 2.0)
HDMI Output	Micro HDMI (4K support)
Power Supply	27W USB-C (5.1V / 5.0A)
Compatible Devices	TV, Monitor, Game Console, Camera, Smartphone (as peripherals)

## 8. WARRANTY AND SUPPORT

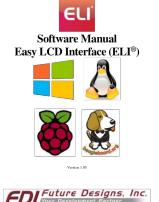
For warranty information and technical support regarding your db-tronic Raspberry Pi 5 8GB Kit, please refer to the official db-tronic website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

**Manufacturer:** db-tronic

**Contact:** Please visit the db-tronic official website for support options.

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## Related Documents - RP5-8GB-BLACK

 <small>Benutzerhandbuch   Sicherheitshinweise User manual   Safety instructions Manuel d'utilisation   Consignes de sécurité Manual del usuario   Instrucciones de seguridad Manual de uso   Instrucciones de seguridad Gebruikerhandleiding   Veiligheidsinstructies</small> <a href="http://www.db-tronic.de">www.db-tronic.de</a>	<p><a href="#"><u>Raspberry Pi 5 Benutzerhandbuch und Sicherheitshinweise   db-tronic</u></a></p> <p>Umfassende Anleitung für den Raspberry Pi 5 von db-tronic, einschließlich Einrichtung, Bedienung, Erweiterungen und wichtiger Sicherheitshinweise.</p>
 <small>Benutzerhandbuch   Sicherheitshinweise User manual   Safety instructions Manuel d'utilisation   Consignes de sécurité Manual del usuario   Instrucciones de seguridad Manual de uso   Instrucciones de seguridad Gebruikerhandleiding   Veiligheidsinstructies</small> <a href="http://www.db-tronic.de">www.db-tronic.de</a>	<p><a href="#"><u>Raspberry Pi 5 Benutzerhandbuch und Sicherheitshinweise</u></a></p> <p>Umfassende Anleitung von db-tronic für den Raspberry Pi 5. Erfahren Sie alles über Inbetriebnahme, Konfiguration, Erweiterungen und wichtige Sicherheitshinweise für Ihre Projekte.</p>
	<p><a href="#"><u>Beelink Mini PC Auto Power On Configuration Guide</u></a></p> <p>Instructions on how to enable the automatic power-on feature for Beelink Mini PCs using either BIOS settings or a hardware jumper.</p>
	<p><a href="#"><u>Azulle Byte4 Fanless Mini Desktop PC Quick Guide   Setup, Ports, Specs</u></a></p> <p>Get started with your Azulle Byte4 fanless mini desktop PC. This quick guide covers unboxing, installation, port layout, detailed specifications, and support information for the Byte4 model.</p>
	<p><a href="#"><u>Easy LCD Interface (ELI) Software Manual</u></a></p> <p>Comprehensive software user manual for Future Designs, Inc. (FDI) Easy LCD Interface (ELI) products, detailing setup and usage with Raspberry Pi, BeagleBone Black, and Ubuntu.</p>