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## CanaKit RASPBERRY-PI-STK

# CanaKit Raspberry Pi 2 Model B Starter Kit Instruction Manual

Brand: CanaKit | Model: RASPBERRY-PI-STK

## INTRODUCTION

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This manual provides comprehensive instructions for setting up, operating, and maintaining your CanaKit Raspberry Pi 2 Model B Starter Kit. The kit is designed to provide all necessary components to begin exploring the world of Raspberry Pi computing.



Image: All components of the CanaKit Raspberry Pi 2 Starter Kit, including the Raspberry Pi board, case, power supply, HDMI cable, WiFi adapter, MicroSD card, heat sink, and quick-start guide.

## WHAT'S INCLUDED

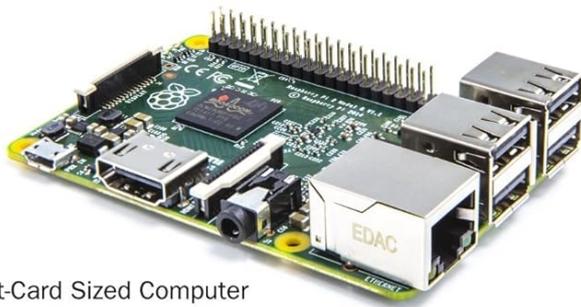
Your CanaKit Raspberry Pi 2 Starter Kit includes the following items:

- **Raspberry Pi 2 (RPi2) Model B (Version 1.2):** Quad-Core 900 MHz, 1 GB RAM.
- **8 GB MicroSD Card (Class 10):** Pre-loaded with NOOBS (New Out Of Box Software).
- **CanaKit WiFi Adapter / Dongle (RT5370 chipset):** Supports Access Point Mode.
- **CanaKit 2.5A Micro USB Power Supply:** UL Listed, with Noise Filter (5-foot cable), specifically designed for Raspberry Pi 2.
- **High Quality Raspberry Pi 2 Case:** Designed for protection and accessibility.
- **Premium Quality HDMI Cable:** 6-foot cable with CEC support.
- **Heat Sink:** For thermal management of the Raspberry Pi's main chips.
- **GPIO Quick Reference Card:** For easy identification of GPIO pins.

- **CanaKit Full Color Quick-Start Guide:** A printed guide to get started.

## CanaKit Raspberry Pi 2 Starter Kit

Model B | 1 GB RAM | 900 MHz | Quad-Core CPU



- > Credit-Card Sized Computer
- > Turn your TV into a Media Center
- > Learn to Code & Explore Computing

### KIT INCLUDES RASPBERRY PI 2 AND ...

#### PREMIUM CASE & HEAT SINK



#### 2.5A POWER ADAPTER



#### 8 GB CLASS 10 MICROSD CARD



PRE-LOADED  
WITH OPERATING SYSTEM

#### WiFi ADAPTER



#### PREMIUM HDMI CABLE



#### QUICK-START GUIDE



Image: Visual breakdown of the kit contents, highlighting the Raspberry Pi 2 board, case, power adapter, MicroSD card, WiFi adapter, HDMI cable, and quick-start guide.

## SETUP INSTRUCTIONS

1. **Install Heat Sinks:** Carefully peel the adhesive backing from the heat sinks and attach them to the main processor and other designated chips on the Raspberry Pi board. Ensure proper alignment for optimal heat dissipation.
2. **Assemble the Case:** Place the Raspberry Pi 2 board into the bottom half of the provided case. Ensure all ports align correctly with the case openings. Snap the top half of the case onto the bottom half, securing the Raspberry Pi inside.
3. **Insert MicroSD Card:** Locate the MicroSD card slot on the Raspberry Pi board (accessible through the case). Insert the pre-loaded 8 GB Class 10 MicroSD card into the slot until it clicks into place.
4. **Connect Peripherals:**
  - Connect a keyboard and mouse to the USB ports on the Raspberry Pi.

- Connect the HDMI cable from the Raspberry Pi's HDMI port to your display (monitor or TV).
- Plug the CanaKit WiFi Adapter into an available USB port.

5. **Connect Power:** Plug the CanaKit 2.5A Micro USB Power Supply into the Micro USB power port on the Raspberry Pi. Then, plug the power supply into a wall outlet. The Raspberry Pi will power on automatically.

**INTEGRATED  
CAMERA SUPPORT**



## **High Gloss Premium CanaKit Case with Innovative Integrated Camera Support**

Image: The high-gloss premium CanaKit case, designed to house the Raspberry Pi 2 board and provide integrated camera support.

**Highly Optimized  
for Raspberry Pi 2**

**HIGH-SPEED  
CLASS 10**



**8 GB Class 10  
MicroSD with NOOBS**

Image: An 8 GB Class 10 MicroSD card, highly optimized for Raspberry Pi 2 and pre-loaded with NOOBS.

**Cable Length: 6.5 feet (2 meters)**

**SUPPORTS  
HDMI-CEC**



**Allows a CEC compatible TV's remote to control  
the Raspberry Pi under popular Media Center Operating Systems**

Image: A 6.5-foot (2-meter) premium quality HDMI cable with CEC support, allowing a CEC compatible TV's remote to control the Raspberry Pi.



INCLUDES  
NOISE FILTER

c **UL** us  
**LISTED**

## 2.5A POWER SUPPLY (DESIGNED FOR PI 2)

Image: The CanaKit 2.5A Micro USB Power Supply, UL Listed and designed for the Raspberry Pi 2, featuring a noise filter for stability.



DESIGNED FOR  
RASPBERRY PI



## Supports Access Point (AP) Mode

Image: The CanaKit WiFi Adapter, a mini USB wireless adapter supporting 150 Mbps 802.11N/G/B and Access Point (AP) Mode.

### OPERATING INSTRUCTIONS

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#### First Boot and OS Installation (NOOBS)

Upon connecting power, your Raspberry Pi will boot into the NOOBS (New Out Of Box Software) menu. This interface allows you to easily install various operating systems.

1. When the NOOBS menu appears, select your desired operating system (e.g., Raspbian).
2. Follow the on-screen prompts to complete the installation. A wired internet connection may be required for some operating systems or updates.
3. Once the installation is complete, your Raspberry Pi will reboot into the newly installed operating system.

#### Connecting to Wi-Fi

After installing your operating system, you can configure the Wi-Fi connection using the CanaKit WiFi Adapter:

1. Ensure the CanaKit WiFi Adapter is firmly seated in a USB port.

2. Navigate to the network settings or Wi-Fi icon in your operating system's desktop environment.
3. Select your Wi-Fi network from the list of available networks.
4. Enter your Wi-Fi password if prompted and connect.

## GPIO Usage

The General Purpose Input/Output (GPIO) pins allow you to connect and control various electronic components. Refer to the included GPIO Quick Reference Card for pinout details and functions.

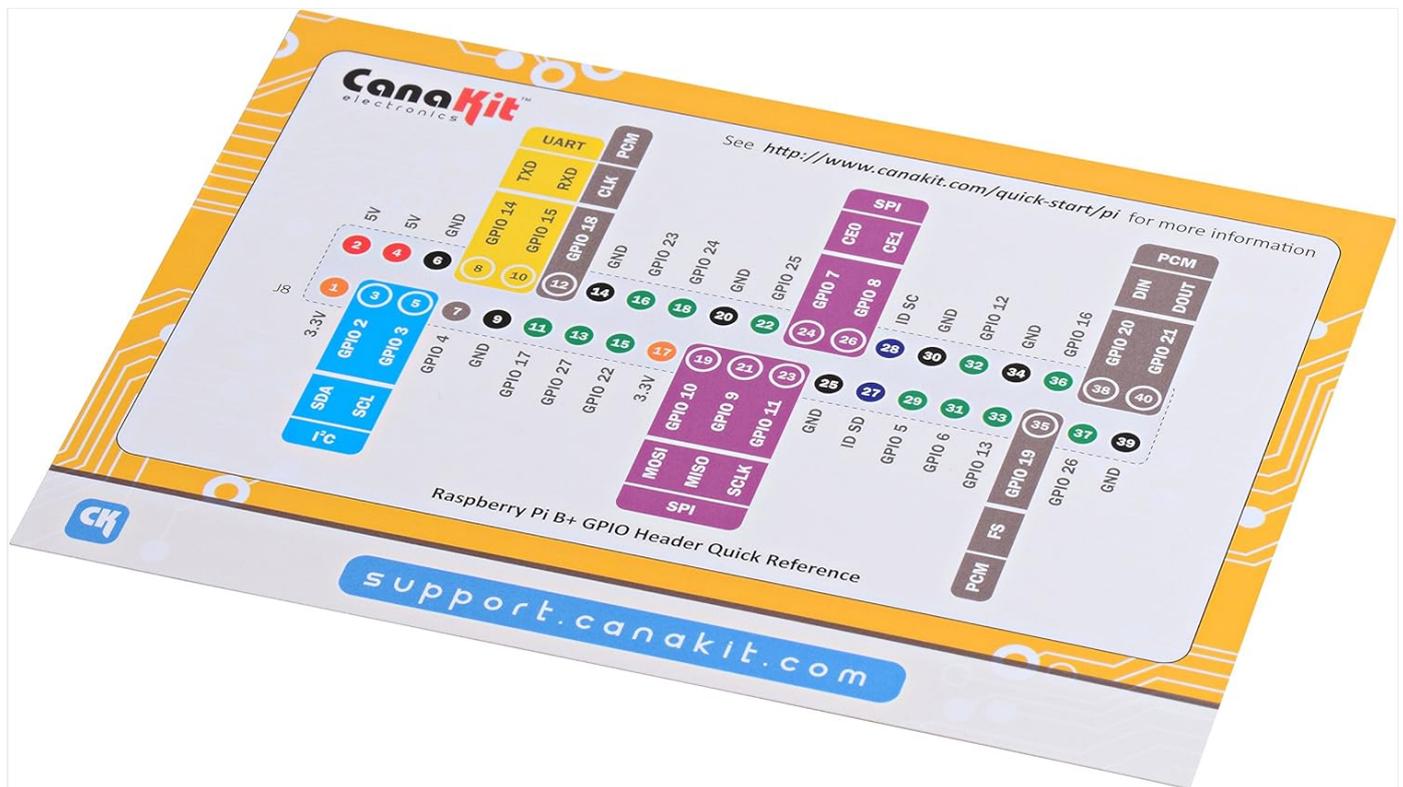


Image: The CanaKit GPIO Quick Reference Card, providing a visual guide to the Raspberry Pi's GPIO header pins and their functions.

## MAINTENANCE

- **Heat Sinks:** The included heat sinks help manage the temperature of the Raspberry Pi's processor. Ensure they remain securely attached. While not strictly necessary for all operations, they are beneficial, especially when the device is enclosed in a case or under heavy load.
- **MicroSD Card Care:** Always shut down your Raspberry Pi properly through the operating system before removing the power or the MicroSD card. Improper shutdown can corrupt the MicroSD card's file system.
- **Case Cleaning:** Clean the case with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.

## TROUBLESHOOTING

- **No Display Output:**
  - Ensure the HDMI cable is securely connected to both the Raspberry Pi and the display.
  - Verify the display is set to the correct input source.
  - Check that the power supply is connected and providing power (LEDs on the Pi should illuminate).
- **Wi-Fi Connectivity Issues:**
  - Confirm the CanaKit WiFi Adapter is firmly seated in a USB port.

- Ensure you have selected the correct Wi-Fi network and entered the password accurately.
- If issues persist, try restarting the Raspberry Pi.
- **MicroSD Card Appears as 1 GB:** The 8 GB MicroSD card is pre-partitioned. When inserted into a PC, it may initially show only a smaller partition (e.g., 1 GB). The remaining space can be expanded within the Raspberry Pi's operating system using tools like raspi-config (for Raspbian).
- **Power Supply Connection:** The Micro USB power connector is designed to fit snugly. If it feels loose, ensure it is fully inserted. While the included power supply is robust, repeated forceful insertion/removal of the WiFi dongle might affect its long-term stability.

## SPECIFICATIONS

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Feature	Detail
Processor	Broadcom Quad-Core 900 MHz
RAM	1 GB
Storage	8 GB MicroSD Card (Class 10)
Wireless Type	Wi-Fi (via included adapter), Bluetooth (built-in)
Operating System (Pre-loaded)	NOOBS (for installing Raspbian and others)
Power Supply	CanaKit 2.5A Micro USB (UL Listed)
Model Number	RASPBERRY-PI-STK
Item Weight	0.16 ounces
Package Dimensions	11.14 x 8.66 x 2.2 inches

## WARRANTY AND SUPPORT

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### Manufacturer Warranty

The CanaKit Raspberry Pi Starter Kit is covered by CanaKit's **1-Year Manufacturer Warranty**. This warranty offers hassle-free replacements for eligible issues.

### Technical Support

For technical assistance, troubleshooting tips, or further information, please refer to the official CanaKit support resources. The included Quick-Start Guide may also contain contact information or links to online support. For general Raspberry Pi information and community support, visit the official Raspberry Pi website.

*Note:* The GPIO Quick Reference Card included in your kit also provides a support website: [support.canakit.com](https://support.canakit.com).

