

sb components SKU26098

HackyPi Instruction Manual

Brand: sb components

Model: SKU26098

1. INTRODUCTION TO HACKYPi

The HackyPi is an ultimate DIY USB hacking tool designed for security professionals and ethical hackers. It serves as a programmable USB device for educational purposes, allowing users to explore various topics such as data logging, encryption, and coding.

Built around the powerful Raspberry Pi RP2040 microcontroller, which features dual ARM Cortex-M0+ cores, HackyPi provides a versatile and accessible platform for expanding knowledge and skills in cybersecurity and coding.

Video Description: An official product overview video showcasing the HackyPi device, its features, and potential applications. It highlights the device's role as a learning companion for ethical hacking and programming.

2. KEY FEATURES AND COMPONENTS

HackyPi is equipped with a range of features designed to facilitate learning and experimentation:

- **RP2040 Dual-core Arm Cortex-M0+ Processor:** Provides robust processing power for complex tasks.
- **On-board SD Card Support:** Allows for data storage and program loading.
- **Type A USB:** Standard USB interface for easy connectivity.
- **TFT 1.14" Display:** A small screen for user interface and feedback.
- **Onboard Boot Button:** Facilitates drag-and-drop programming via mass storage over USB.
- **Driver-Free Operation:** Compatible with Windows, Mac, and Linux without requiring additional drivers.
- **Open-Source Hardware:** Promotes transparency and community development.
- **Python Support:** Enables programming with Python, including the use of HidLibrary for custom programs.



Image Description: A clear view of the HackyPi device, showing both its front and back. The front displays 'HackyPi' and a digital matrix pattern on its screen, while the back shows 'sb Components We Make Things Intelligent'.



Image Description: An exploded diagram illustrating the internal components of the HackyPi, including the Type A USB connector, 1.14-inch LCD, 'Initiate Program' button, RP2040 MCU, and SD Card Slot.



Image Description: A graphic displaying logos for various programming environments and SDKs supported by HackyPi, including Pico C/C++ SDK, CircuitPython, MicroPython, and Arduino.

3. SETUP AND INITIAL USE

Setting up your HackyPi is straightforward due to its plug-and-play design:

1. **Connect to a USB Port:** Simply plug the HackyPi into an available USB Type-A port on your computer (Windows, Mac, or Linux).
2. **Mass Storage Mode:** The device will typically appear as a mass storage device, allowing for easy drag-and-drop of program files.
3. **Initial Boot:** Upon first connection, the device may display a welcome message or default program output on its 1.14-inch TFT display.



Image Description: A hand inserting the HackyPi device into the USB port of a laptop, demonstrating the simple connection process.

4. OPERATING YOUR HACKYPI

HackyPi is designed for users to write and execute their own programs. The primary method of operation involves creating scripts (e.g., in Python) and loading them onto the device.

- **Programming:** Develop your programs using supported languages like Python (with HidLibrary for USB HID functionalities), MicroPython, CircuitPython, or C/C++ with the Pico SDK.
- **Loading Programs:** Transfer your compiled or script files to the HackyPi by dragging and dropping them into

its mass storage drive when connected to your computer.

- **Execution:** Programs typically run automatically upon device boot or can be triggered via specific interactions depending on your code.
- **User Interface:** The 1.14-inch TFT display provides visual feedback and can be programmed to show text, status, or simple graphics.



Image Description: The HackyPi device with its small screen displaying the word "Hello", indicating successful program execution or a default greeting.

5. POTENTIAL APPLICATIONS

HackyPi can be programmed for a variety of educational and experimental applications, including but not limited to:

- Deletion of browser history.
- Rebooting a PC/Laptop.
- Initiating camera functions for images and videos.
- Programming HackyPi to interact with email services like Gmail.
- Programming HackyPi to freeze a Windows system.
- Shutting down a system.

HackyPi

Applications



Image Description: A visual representation of different applications for the HackyPi, including browser history deletion, PC reboot, camera initiation, Gmail interaction, Windows freezing, and system shutdown.

6. TECHNICAL SPECIFICATIONS

Attribute	Value
Package Dimensions	3.54 x 2.95 x 1.46 inches
Item Weight	0.705 ounces
Manufacturer	sb components
ASIN	B0C3LRLPNX
Item model number	SKU26098
Date First Available	April 30, 2023
Brand	sb components
Hardware Platform	PC, Laptops
Computer Platform	Laptop

7. TROUBLESHOOTING

If you encounter issues with your HackyPi, consider the following common solutions:

- **Device Not Recognized:** Ensure the HackyPi is fully inserted into a functional USB port. Try a different USB port or computer.
- **Program Not Running:** Verify that your program file is correctly placed on the HackyPi's mass storage. Check

your code for syntax errors or logical flaws.

- **Unexpected Behavior:** This may indicate an issue with your program logic or an incompatibility with the target system. Review your code and test on different systems if possible.
- **Reflashing Firmware:** If the device becomes unresponsive or behaves erratically, you may need to reflash its firmware. Instructions and necessary files are typically available on the official sb components GitHub page or support website.
- **Keyboard Layout Issues:** Some users have reported issues with keyboard mappings (e.g., UK vs. US layouts). Ensure your scripts account for the target system's keyboard layout.

8. WARRANTY INFORMATION

For detailed warranty information regarding your HackyPi, please refer to the official sb components website or contact their customer support directly. Keep your proof of purchase for any warranty claims.

9. SUPPORT AND RESOURCES

For further assistance, updated documentation, and community support, please utilize the following resources:

- **Official Website:** Visit the [sb components Store](#) for product information and updates.
- **GitHub Page:** Many users find the official GitHub page (often linked from the product page or sb components website) to be an invaluable resource for technical documents, example code, and community discussions.
- **Customer Support:** Contact sb components customer support for specific product inquiries or technical issues not covered in this manual.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Why won't the screen on my sb components HackyPi (SKU26098) come on?

If the 1.14-inch TFT display on your sb components HackyPi (SKU26098) is not turning on, please try the following troubleshooting steps: Check Power and Connection: Ensure the HackyPi is fully inserted into a functional USB...

[Read full answer](#)