PiJuice

User Guide

INTRO

Getting Started with Your New PiJuice!

As one of the smallest systems around, there are so many amazing things you could do with the Raspberry Pi if it were self-powered and portable. With Pi-Juice, we want to provide not only the best mobile hardware/software solution but also a set of inspiring and affordable guided projects for fun and learning in the real world. The PiJuice comes complete with our revolutionary PiAnywhere technology – the best way to take your Pi off the grid!

- Integrated **RTC** (Real Time Clock).

- **Full UPS** (Uninterrupted Power Supply) solution.

- On board intelligent **ON/OFF** switch.

- Full power management **API** available to Raspberry Pi OS with auto shutdown capability when running low on batteries.

- On board **EEPROM** for easy plug and play operation.

- Programmable **multi-coloured RGB LEDs**.

So you've got a PiJuice, but now what? We've prepared a variety of exciting and fun projects just for you! From creating your very own games console to hacking together a weather station, the possibilities are endless...you can now use your Raspberry Pi Anywhere!

Want to know more?

START

How to get PiJuice up and running

We've designed PiJuice to be **extremely easy** to use. It is a truly **plug and play** device.

Stuck?

If you need help you can talk to us on Twitter!

🐦 @PiSupply

1 In the box...
1x PiJuice Board with battery, **1x** PiJuice Guide (you're reading it!) **4x** Mounting posts attached to PiJuice, **8x** mounting screws (4 are already assembled to the board).

2 Prepare your Raspberry Pi and SD Card
Visit pisupp.ly/**pijuice** to download the PiJuice software.

3 With your Raspberry Pi turned off...
Attach the PiJuice to the board and screw it into place.

4 Switch on the PiJuice...
Then start making with Raspberry Pi!

5 Visit the Pi Supply Maker Zone at
pisupp.ly/make to find out more!

PROJECTS

Get making with PiJuice

We've prepared a selection of fun and engaging projects just for you. Follow the link under each project to find the full build tutorials.

REMOTE CAMERA SYSTEMS
pisupp.ly/remote-camera

WEATHER STATION
pisupp.ly/weather-station

COMPACT ROBOT
pisupp.ly/robot

PORTABLE POCKET PI
pisupp.ly/pocket-pi

DIY PORTABLE GAMES CONSOLE
pisupp.ly/games-console

POINT AND SHOOT CAMERA
pisupp.ly/compact-camera

WANT MORE?

THAT'S UP TO YOU!
The only thing limiting what you now do with your PiJuice is your imagination. Go forth and be awesome!

SUBMIT YOUR IDEAS
And find new community made projects

#PiJuiceProjects

WHAT WILL YOU MAKE NEXT?

TIME STATE HOLOGRAM

WARP DRIVE

QUANTUM TELEPORTER

MERKABA FIELD

SMALL PRINT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Complies with CAN ICES-3 (B)/NMB-3(B)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

These suggestions will help you to prolong the life of your device. For PiJuice to operate correctly and to avoid any potential issues with the product please observe the following:

- Your PiJuice should be treated with care.
- Do not expose it to water or moisture.
- Do not expose it to heat. PiJuice is designed for reliable operations at room temperature.
- Please ensure you handle PiJuice carefully to avoid damaging the printed circuit boards and components.
- Avoid handling the PiJuice while it is powered to minimise the risk of electrostatic discharge damage.
- All add ons used with PiJuice should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met.
- If the device comes into contact with moisture or dust, turn it off and clean immediately.
- Do not hit, shake or drop the PiJuice to avoid damage and injury.
- Do not put pressure on the device, as it may damage the battery or device itself.
- Please do not touch the connection port of the PiJuice, as static electricity may harm components in the device.

WARRANTY AND COMPLIANCE

- Do not use PiJuice around flammable gas.

- Do not place PiJuice on uneven or unstable surfaces.

- PiJuice and the battery that comes with the device are not waterproof.

- Please do not use these devices in areas of high temperature or humidity.

- Do not use alcohol or harsh chemicals to clean the device.

- PiJuice contains a LiPo battery which is dangerous and can cause fires or explosions if used or charged incorrectly. Only charge your battery within PiJuice and do not leave the battery in direct sunlight or expose to excessive heat. If you notice any damage, bulging, fluid leakage or other signs of battery malfunction please contact your local battery disposal outlet and discontinue use of the battery immediately.

- Take extra care when putting together your PiJuice. Remember, circuit boards, although durable, will break if you don't treat them with care. RAAMaudio UK Ltd is not responsible for any of the below.

- Personal injury or damage to product resulting from removal of the lithium battery cover. Working with Lithium polymer cells is dangerous and should only be carried out by a trained engineer, hence why the battery pack is provided fully assembled and protected.

- Data loss as a result of SD Card corruption.

- Any electrical injury resulting from misuse of the PiJuice board.

- Damage to PiJuice resulting from user error. Please ensure that you are free of static electricity when handling PiJuice to prevent unwanted electrostatic discharges from damaging the board.

- Malfunction of components as a result of mishandling PiJuice.

- This device comes with a 1-year manufacturers warranty for manufacturing defects only. This does not cover accidental damage or misuse.

- If you are in any doubt about the information here, please cease using PiJuice immediately and contact us at: sales@pi-supply.com

- Mailing Address: Pi Supply, Unit 4 Bells Yew Green Business Court, East Sussex, TN3 9BJ, United Kingdom

www.**pi-supply**.com | www.**pijuice**.com

Pi Supply

PiJuice

Industry Canada   Industrie Canada