

Raspberry Pi UPS HAT

DFR0494

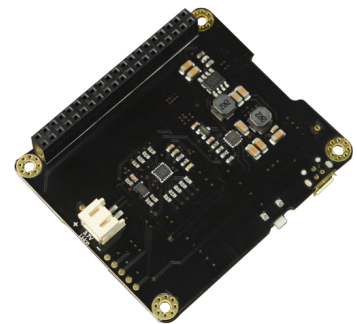
Product Overview

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Description

DFRobot DFR0494 Raspberry Pi UPS HAT is an uninterruptable power supply shield for Raspberry Pi. This device provides a power source to Raspberry Pi for an extended period when the system is powered off to avoid system damage and assure a safe shutdown. The Raspberry Pi UPS HAT can also supply stable power for some applications requiring mobility such as Raspberry Pi camera, tablet PC, and field data collection systems. This device also adopts a MAX17043 fuel gauge for accurate power detection. The Raspberry Pi onboard Microcontroller (MCU) is able to obtain power capacity and battery voltage information directly via I²C communication. The Raspberry Pi UPS HAT supports 2A maximum current output, suitable for more Raspberry Pi applications. This device requires a 3.7V lithium battery.



Features

- Standard Raspberry Pi extension interface, compatible with other expansion boards
- Support 2A maximum current output, suitable for more Raspberry Pi applications
- Auto-switching of charge/recharge path and designed against power-down
- On-board 5 LEDs for showing the batteries' status
- On-board Maxim fuel gauge IC
- Support reading battery information via I²C communication
- Lithium battery charge/discharge protection and over-heating protection
- Anti-backflow mainboard power source

Specifications

- 4.5V to 5.5V supply voltage range
- Supply current:
 - Adapter with power of 2A and above
- Micro-USB power supply interface
- 1.6A maximum charge current
- PH2.0-2P or solderable contact battery interface
- 3.7V Lithium battery

Specifications

- 5V output voltage
- 2A maximum output current
- I²C communication interface
- 65mm x 56mm (2.56" x 2.20") dimensions
- 58mm x 49mm (2.28" x 1.93") mounting hole size
- -40°C to 85°C operating temperature range

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-dfr0494-rasp-pi3-ups-hat/>