



Particle Photon 2 Channel Relay Shield Datasheet

Description

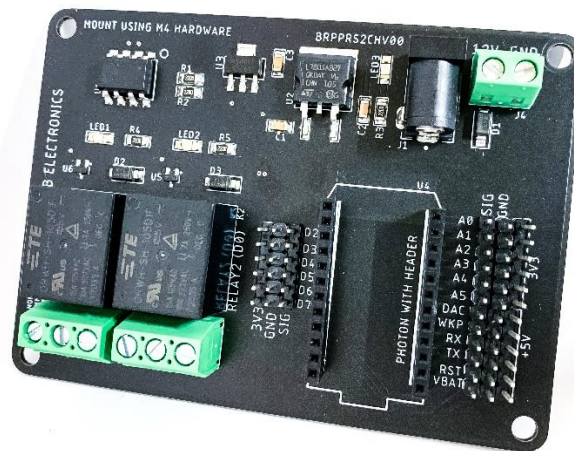
The Particle Photon Relay Shield was developed so that anyone could dive right into the IoT world. It can be used to control lights, motors, solenoids, and many other electrical items. The Blynk App can be used to create an app for easy control right on your phone. It has 2 relays on board that are directly connect to 2 independent digital I/O pins that are used to switch the relays on or off based on the state of the digital pin (HIGH or LOW). **Table 1** below shows which digital pin is connected to each relay. It is also labeled on board between the 3-position screw terminal and the relay.

Relay #	Pin #
1	D1
2	D0

Table 1. Relay pinout.

Each relay has its own 3-postion screw terminal labeled, NO, C, or NC, for Normally Open, Common, or Normally Closed respectively. Each relays contact current rating is 10 amps and switching voltage rating is 277 Vac and 24Vdc max.

Power can be supplied to the board by either the 2.1mm barrel jack connector that is found on the Arduino Uno, or the 2-postion screw terminal. The recomended supply voltage is 12Vdc for the board, this 12 volts will be regulated down to 5V with a max current capacity of 1.5 amps for the voltage regulator. External circuits can be connected to the photon via the added male headers that are labeled with their respective pinout on the Particle Photon.





Applications

- DIY Electronics
- Home Automation
- IoT Applications
- IoT Prototyping
- Prototyping
- Farming Automation
- Gardening Automation
- Aquaculture Automation
- Lighting Automation

Specifications

- Fully Assembled
- Input Voltage: Recommend 12Vdc
- Current Rating 1.5A max
- Barrel Jack or Screw Terminal Power Supply Input Connections
- 2 Channel Relay Control (isolated optocoupler control, protects the Photon)
- Sleek Black Finish
- Leadfree HASL Surface Finish

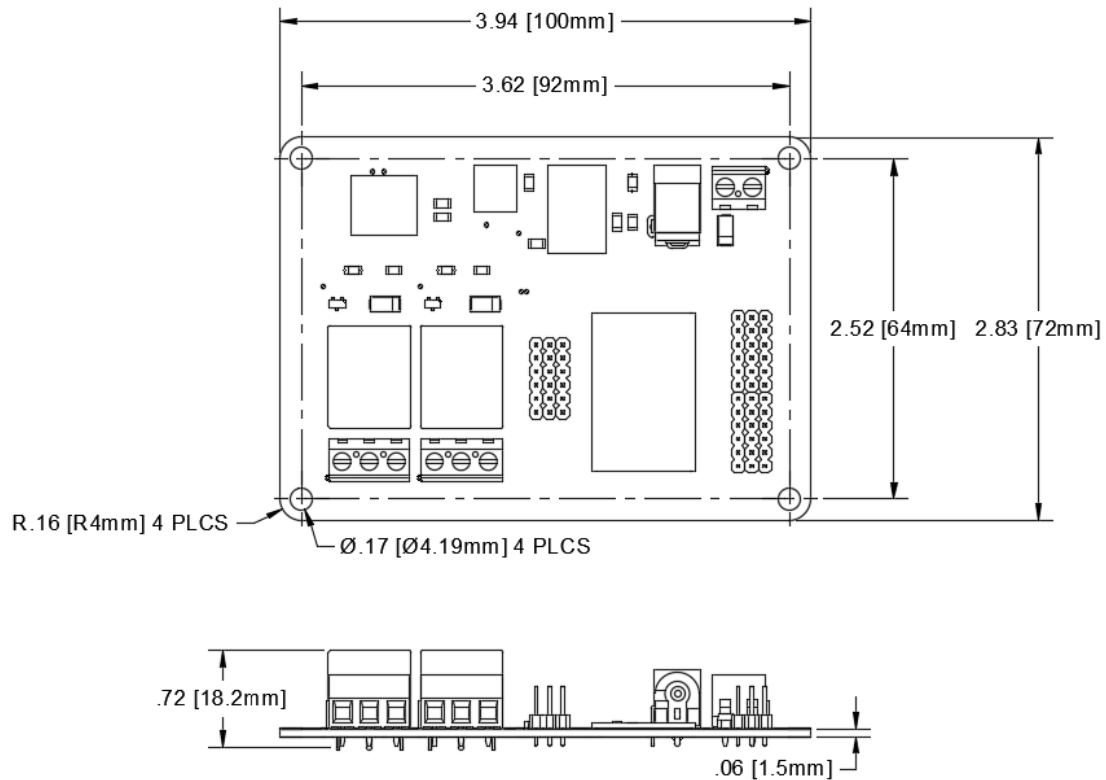
Dimensional Specifications

Dimensions are in inches and millimeters.



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Version 00



Source Code

Source code can be found here:

<https://github.com/brlabelectronics/BRPPRSV00/blob/master/Source%20Code>

Revision Changes

V00 – Initial Release

Contact Info

For comments or concerns feel free to send them to brlabelectronics@gmail.com.

Please be sure to follow us on Instagram @brlabelectronics.

<https://www.instagram.com/brlabelectronics/>