

DrR

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PiConnector Board

Warning: Use this board at your own risk! It has not been widely tested but it works for me!

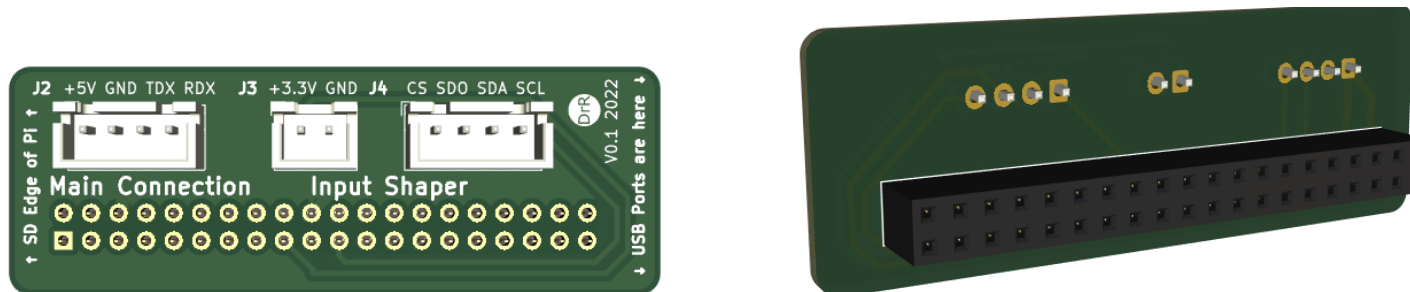
The PiConnector board makes it easy to connect power and data from your MCU and an ADXL345 board to your Raspberry Pi. It makes it easy to connect because you don't have to count the GPIO pins when connecting, making errors less likely to happen. It can be used solely for power, solely for ADXL or for both. It makes it convenient for using one ADXL board on several printers.

This has been tested to power a Raspberry Pi 3, please be cautious on connecting a Pi that consumes more power, it should work on a Raspberry Pi 4 but some people report that powering a Pi 4 by "GPIO" isn't reliable.

BOM:

- 2 JST-HX 4-Pin female
- 1 JST HX 2-Pin female
- 1 Female Header 2x20 pin (2.54mm) (Pololu 1037)

Solder components as illustrated:



This is the original layout, but it is possible to save some headspace by soldering the 40 pin connector to the opposite side where the JST connectors are, however the board would then be plugged into the Raspberry Pi reversed (USB Port arrow would face the SD side and vise versa). This is not recommended unless space is an issue so just solder connectors as illustrated.

For power and data, and also ADXL, connect JST connectors to corresponding wires as labeled