PiZ-EzConnect

Key Features

- Exposes Raspberry Pi Zero headers with easy to connect terminal-blocks.

- Solderless and secure connections for all GPIO's via terminal blocks.

- Power and Ground are marked. 3.3V, 5V power terminal-blocks are pre-soldered.

- Power connections – 5V, 3.3V and ground connections.

- Fits Pi Zero, Pi Zero W, Pi 2, Pi 3 or other Pi clones (e.g. Asus, OrangePi) with 40 pin headers.

- Compact footprint.

- Fully documented pins.

- Includes male headers for Pi Zero and two additional 2-port terminal blocks for additional connections.

- Terminal blocks can be soldered on bottom layer as well as top layer.

PiZ-EzConnect or a GPIO HAT for a Pi Zero, allows connection to any Raspberry Pi 40 pin header via a terminal block. Like the Pi-EzConnect board, PiZ-EzConnect conforms to the Pi Zero dimensions, making this a nice, compact, easy to use

and connect GPIO's to a Pi. PiZ-EzConnect exposes the 40-pin header available on a Raspberry Pi. All odd numbered pins are accessible via terminal blocks Pins 2, 4 and 6 are exposed via a terminal block as those pins provide Power and Ground. Other even numbered pins are left to the discretion of the user. A male header block is included for Pi Zero or Pi Zero W users.

PiZ-EzConnect can be used wherever the Pi-EzConnect is used. The compact form factor makes it convenient for use with Pi Zero, Pi Zero W, Pi 2, Pi 3 or other Raspberry Pi clones conforming to the Pi-HAT standards. These include OrangePi, Asus Tinker Boards and other boards.
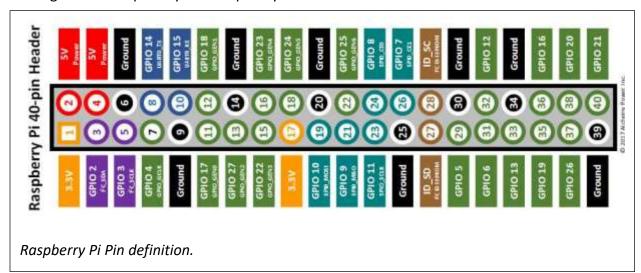
Additional terminal blocks can be added to PiZ-EzConnect board. These terminal blocks are standard 3.5mm terminal blocks (3.5mm is the distance between the pins). These terminal blocks are readily available from any electronic component supply places.

PiZ-EzConnect

Using a PiZ-EzConnect board, it is possible to connect multiple sensors and other electronic devices / components to multiple GPIOs on a Raspberry Pi. With PiZ-EzConnect, you can leverage the full capability of a Raspberry Pi.

Raspberry Pi Pin definition.

The Pin definitions for a Raspberry Pi are shown above. PiZ-EzConnect replicates the above connections.

Pi 3 with PiZ-EzConnect.

Comparing Pi Zero and PiZ-EzConnect dimensions.

Contents and power connections shown.

Specifications

General Information

Model Number: PiZ-EzConnect

Protection: none, passive connector block to Raspberry Pi or other 40 pin connector products.

Pin connections: Displayed on the board.

Header connections – can use 0.1" or 2.54 mm spaced headers, male or female.

Standoff connections – matches Raspberry Pi model A+, B+ and Pi 2. Recommend 10mm brass standoffs for Pi.

Other information – additional 3.5mm terminal blocks can be used.

Dimension/Weight:

Board Dimensions: 71 mm x 30mm.

Board thickness: 1.7 mm.

Terminal Blocks: 9mm from base of the board.

Weight: 32 grams (appx 1.2 ounces)

Raspberry Pi connector header dimensions: Female pins – 8.5mm. Male pins – 11 mm. Male pins can be cut off if not used.

Safety:

Passive board. Safety is provided by device connected to PiZ-EzConnect. No CE or UL testing required.

Warranty:

90 days parts and labor limited warranty.

Recommended Accessories:

Pi-EzConnect – ideal for use with Pi 2, Pi 3. Provides for connections as well as solder points for all GPIO pins. Also provides a mini breadboard.

Standoff / Spacer – M2.5 standoff, 10-15 mm long.

Pi-16ADC – 16 channel, 16-bit Analog to Digital Converter.

Pi-BB – Bread board ideal for use with a Raspberry Pi.

Please follow recommended safety regulations when soldering or using electronic components or making connections or connecting power supplies to Raspberry Pi.

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