CZH-LABS.com
Electronics-Salon

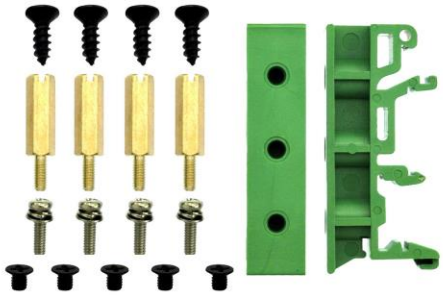
RPi Screw Terminal Block Breakout Module with Aluminum Enclosure.

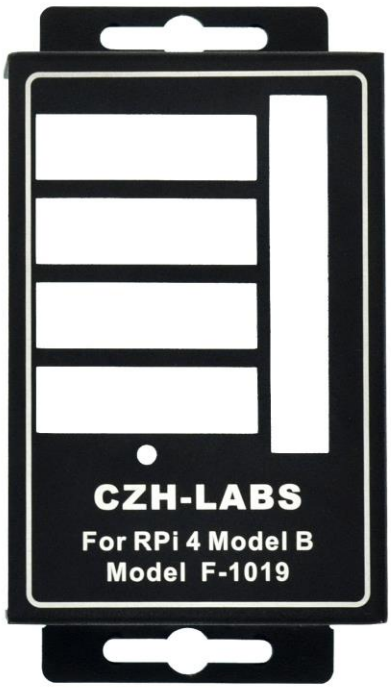
for Raspberry Pi 4 Model B

Model: F-1019

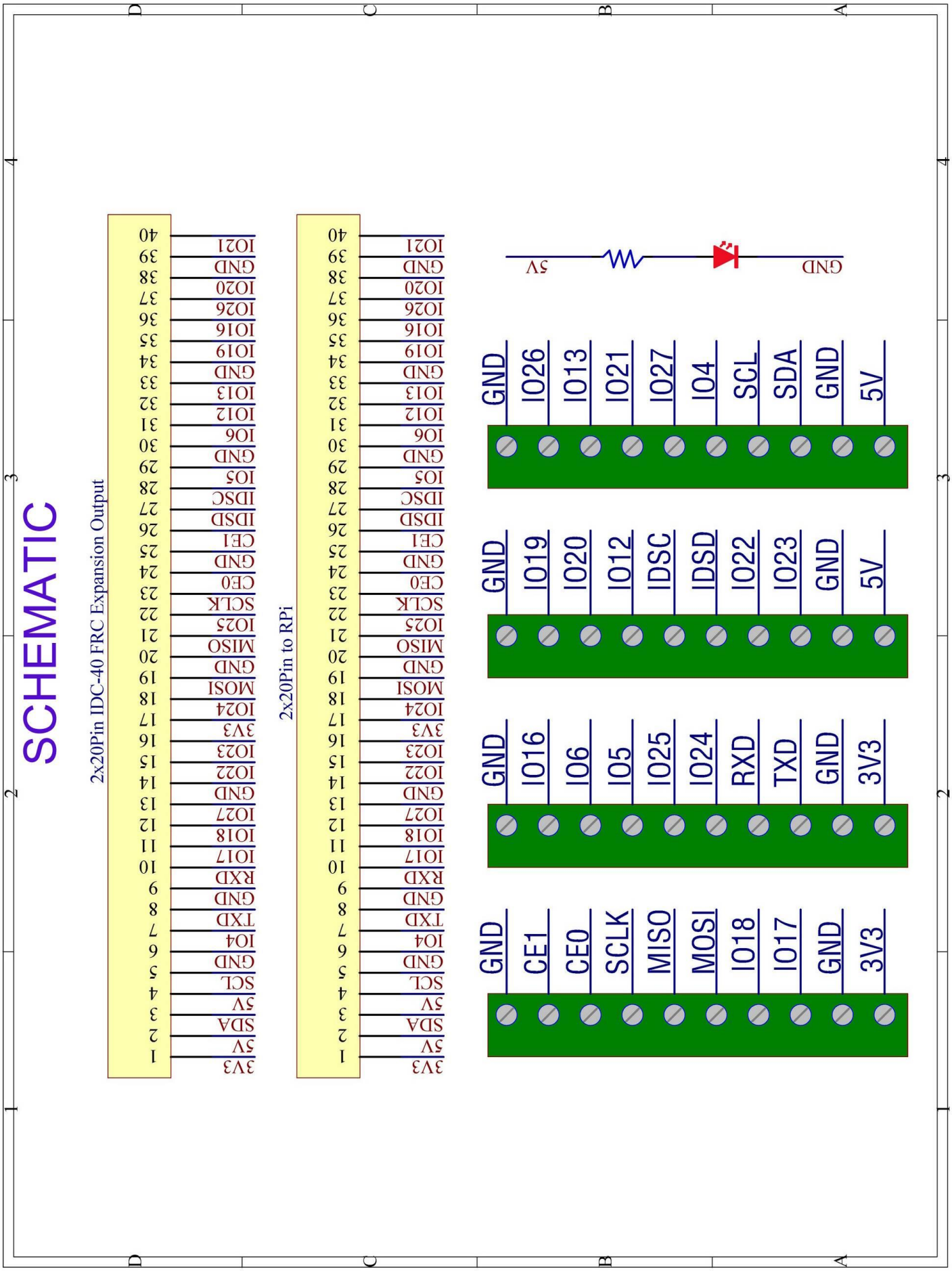
Feature:

- RPi Screw Terminal Block Breakout Module with Aluminum Enclosure. With the adapter module you can easily extend Raspberry-Pi projects to industrial control applications. Applications for Raspberry Pi 4 Model B (NOTE: the item not include Raspberry Pi. Not include CPU heatsink and fan, and the item can’t support instell CPU fan, if you install heatsink, please note heatsink height must less than 8.5mm).
- Terminal block pitch 3.5mm/0.138", wire size range 26AWG to 16AWG, strip length 5mm, screw M2 steel, pin header and cage copper. Standard IDC40 pitch 0.1" header, you can use 40pin FRC(flat ribbon cable) connector cable connect all Raspberry Pi pins to peripheral equipment.
- Support for Desktop, Panel mount, Wall-mount or DIN rail mount. DIN rail mount supports vertical or horizontal place mounting. Can support width 35mm / 32mm / 15mm rail.
- Enclosure: High quality aluminum enclosure, thickness 1.5mm/0.06", with attractive and extremely durable powder coat painting and clear laser marking labels. FR-4 fiber glass PCB, dual copper layers.
- Packing list: 1x Terminal Block Board, 1x Aluminum enclosure(top and bottom covers), 2x DIN rail adapter Bracket, 4x Brass standoff, 5x M3x4mm Flat head screws(for top and bottom cover), 4x M2.5x8mm Pan head screw(for terminal block board), 4x M3x10mm Flat head tapping screw(for DIN rail adapter bracket).

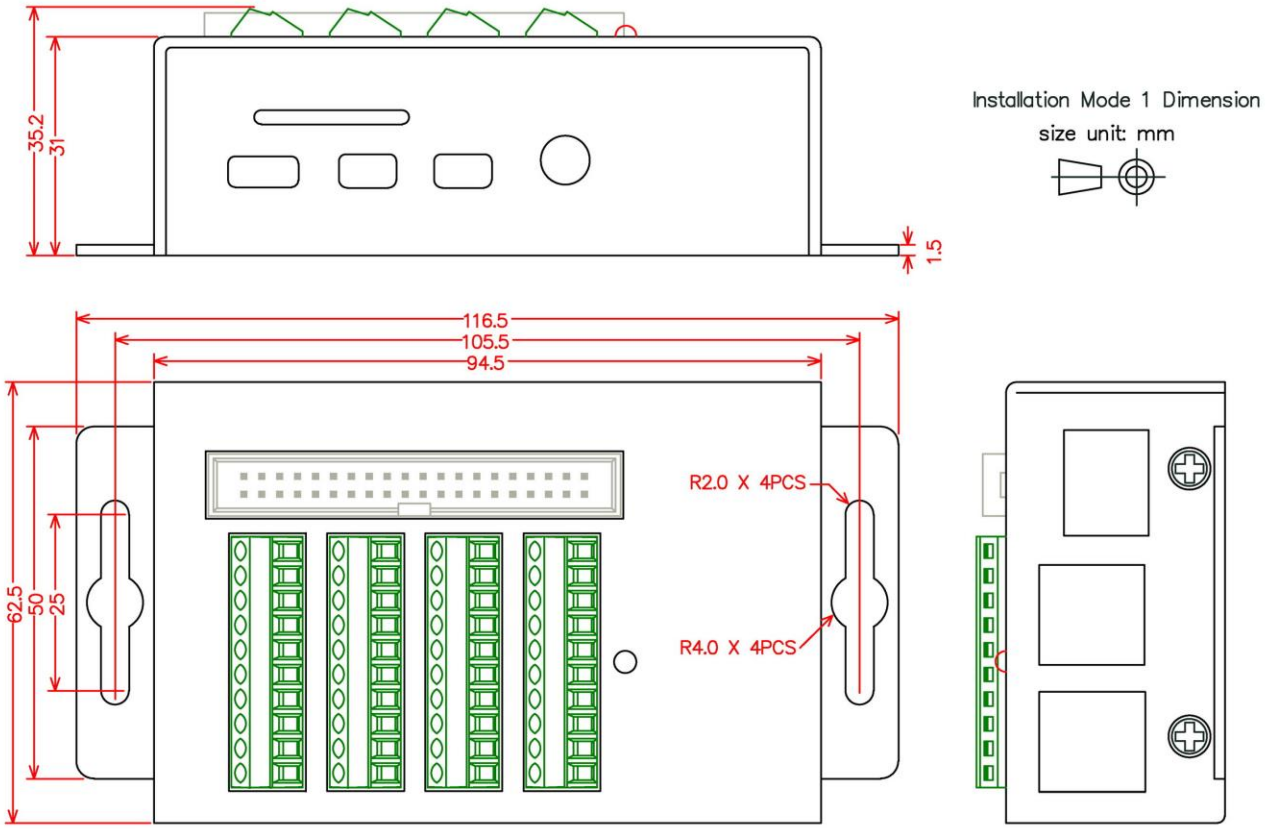


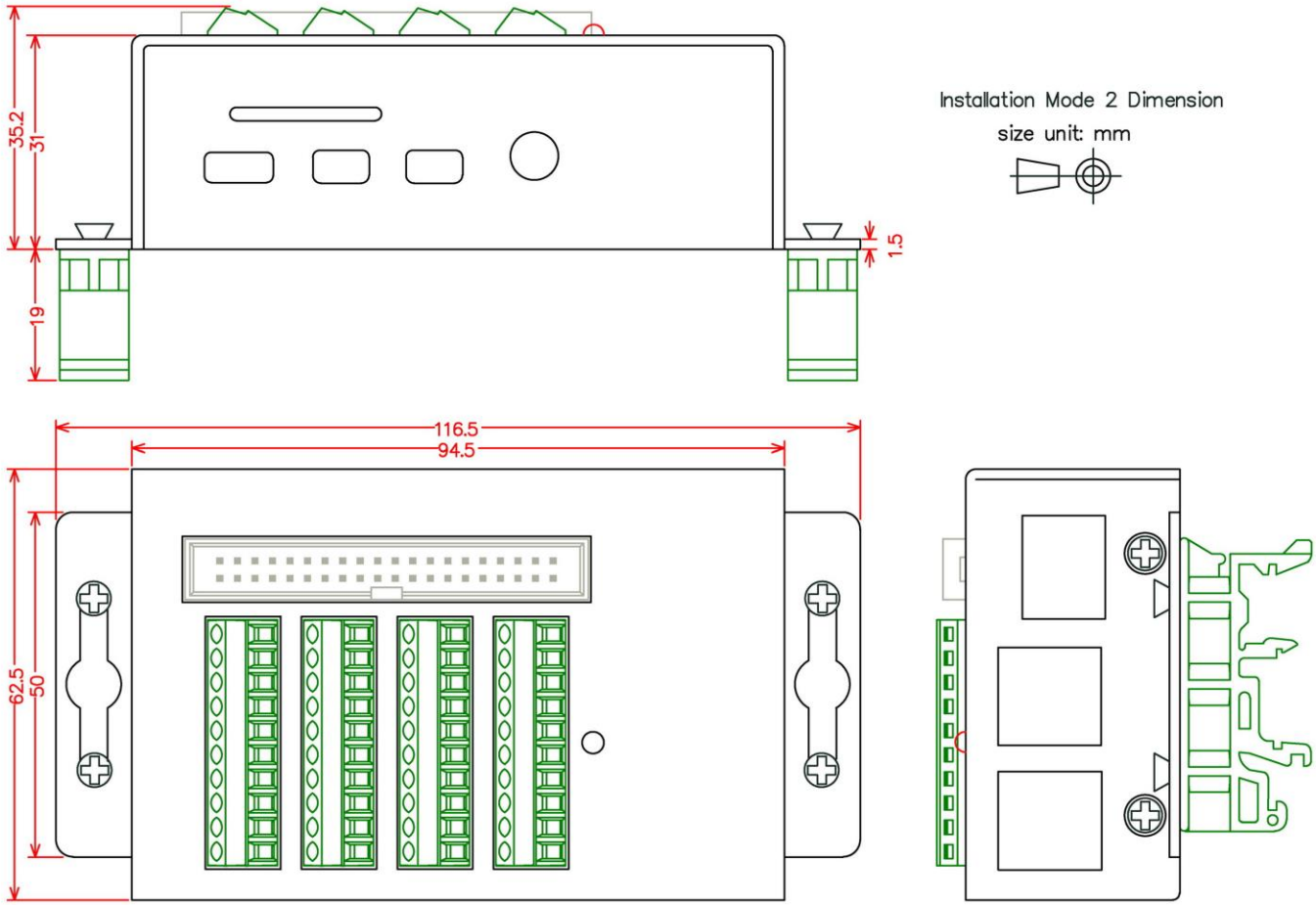


Schematic:


SCHEMATIC
2x20Pin IDC-40 FRC Expansion Output
2x20Pin to RPi
3V3 1 2 5V SDA 3 SCL 4 5V GND 5 IO4 6 TXD 7 GND 8 RXD 9 IO17 10 IO18 11 IO27 12 GND 13 IO22 14 IO23 15 3V3 16 IO24 17 MOSI 18 GND 19 MISO 20 IO25 21 SCLK 22 CE0 23 GND 24 CE1 25 IDSD 26 IDSC 27 IO5 28 GND 29 IO6 30 IO12 31 IO13 32 GND 33 IO19 34 IO16 35 IO26 36 IO20 37 GND 38 IO21 39 40
GND
5V
GND IO26 IO13 IO21 IO27 IO4 SCL SDA GND 5V
GND IO19 IO20 IO12 IDSC IDSD IO22 IO23 GND 5V
GND IO16 IO6 IO5 IO25 IO24 RXD TXD GND 3V3
GND CE1 CE0 SCLK MISO MOSI IO18 IO17 GND 3V3

Dimensions:


35.2
31
1.5
116.5
105.5
94.5
62.5
50
25
R2.0 X 4PCS
R4.0 X 4PCS
Installation Mode 1 Dimension
size unit: mm

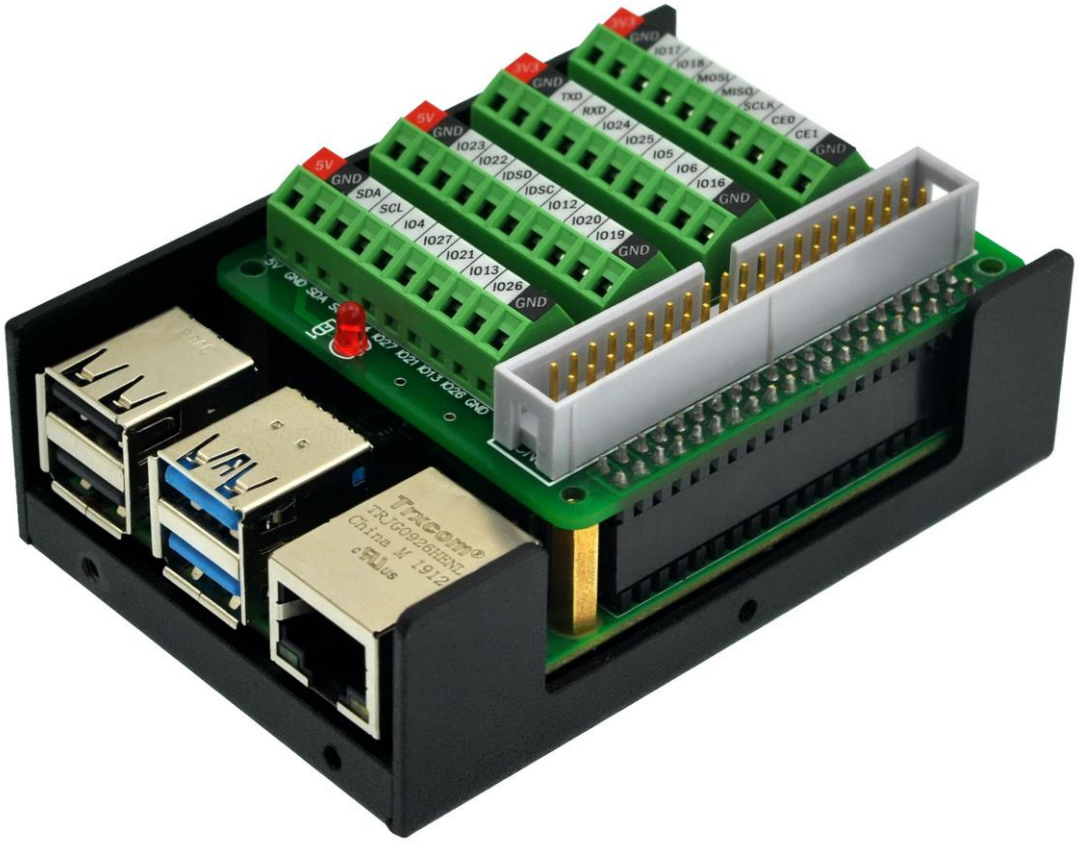

35.2
31
19
1.5
116.5
94.5
62.5
50
Installation Mode 2 Dimension
size unit: mm

Assembly Step:

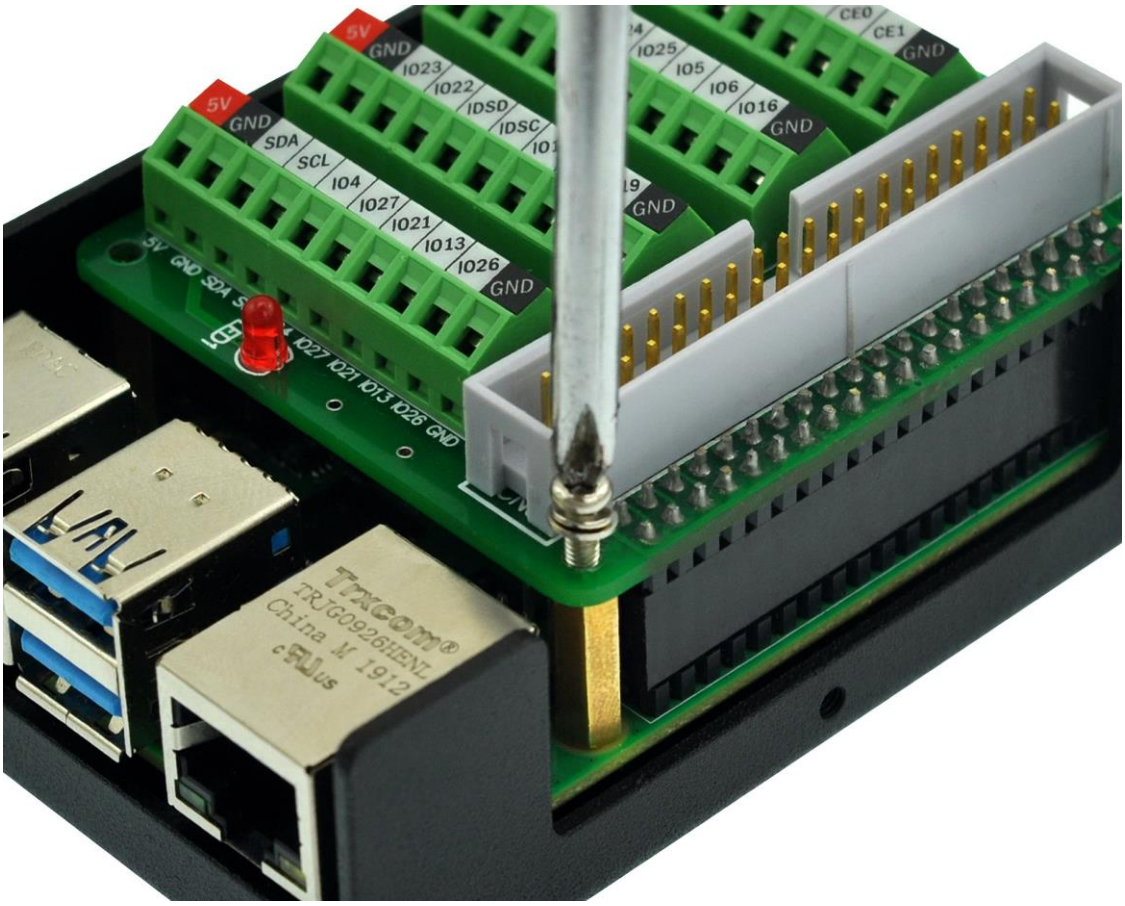
1, Place your Raspberry Pi on the bottom cover.

2, Install brass standoffs to Raspberry Pi holes with a slotted screwdriver.

3, Install the RPi terminal block board to Raspberry Pi.

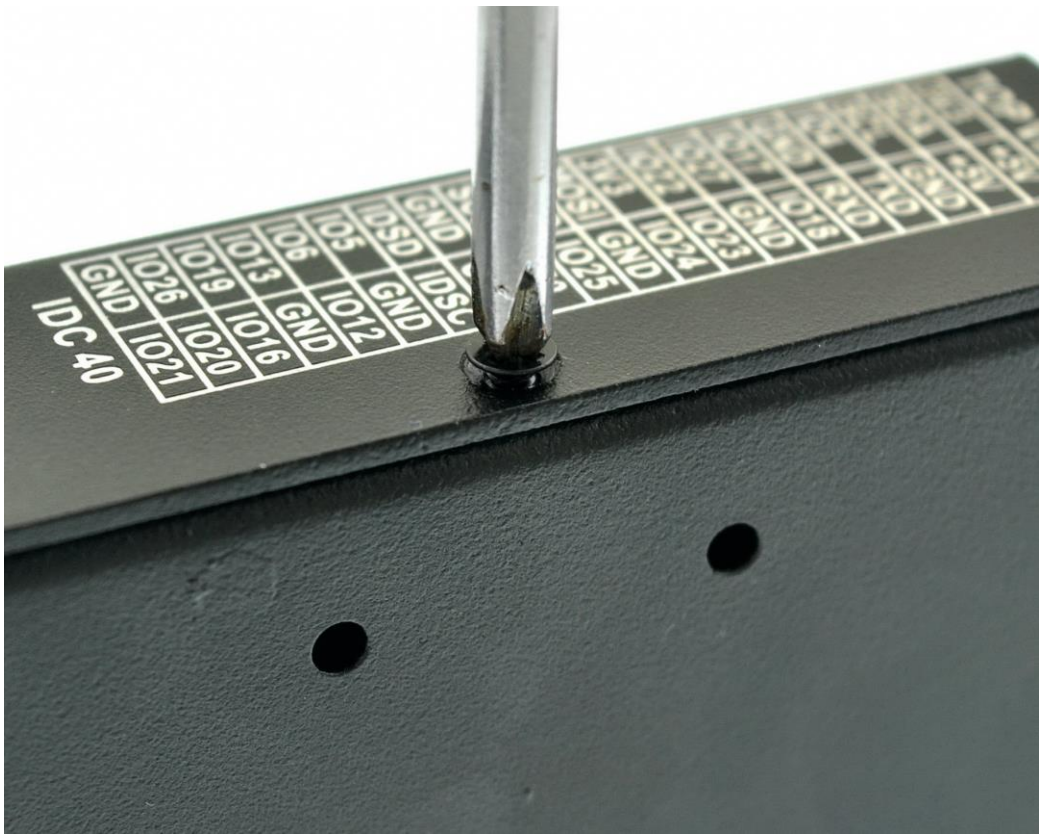


4, Install M2.5x8mm screws to terminal block board holes with a phillips screwdriver.



5, Cover the top cover.

6, Install 5pcs black flat head screws with a phillips screwdriver.



7, Install DIN rail adapter bracket with a phillips screwdriver. But if you want Vertical place, you must install the bracket before step 1.