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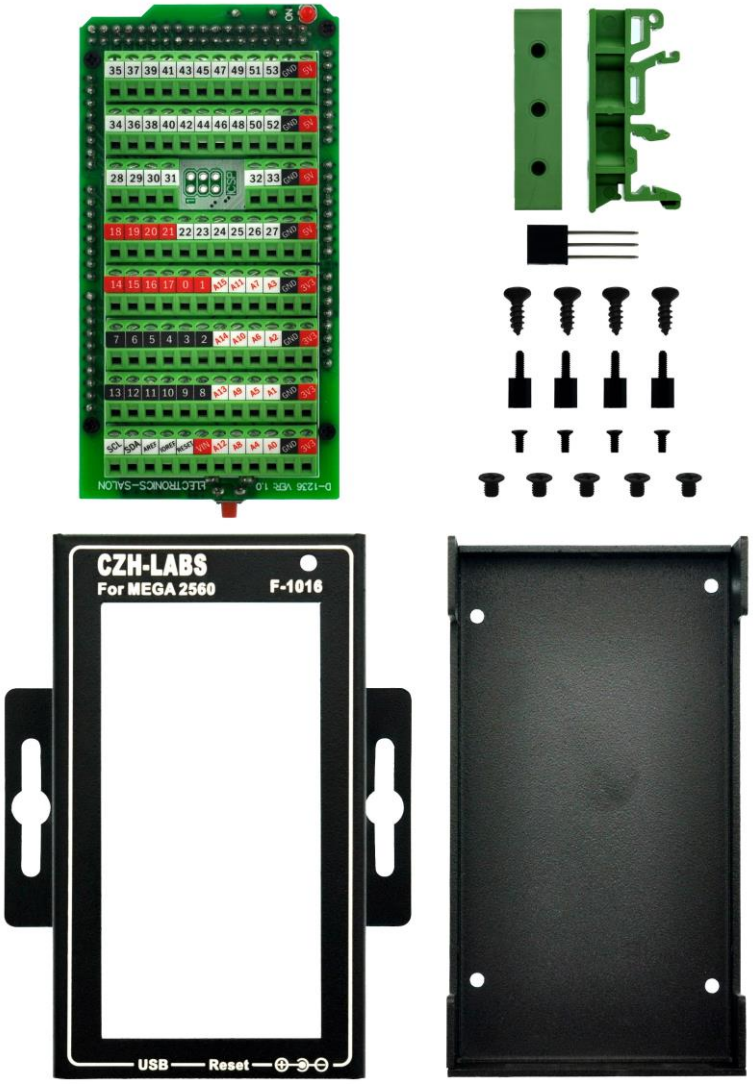
Electronics-Salon

Screw Terminal Block Breakout Module with Aluminum Enclosure, for Arduino MEGA 2560

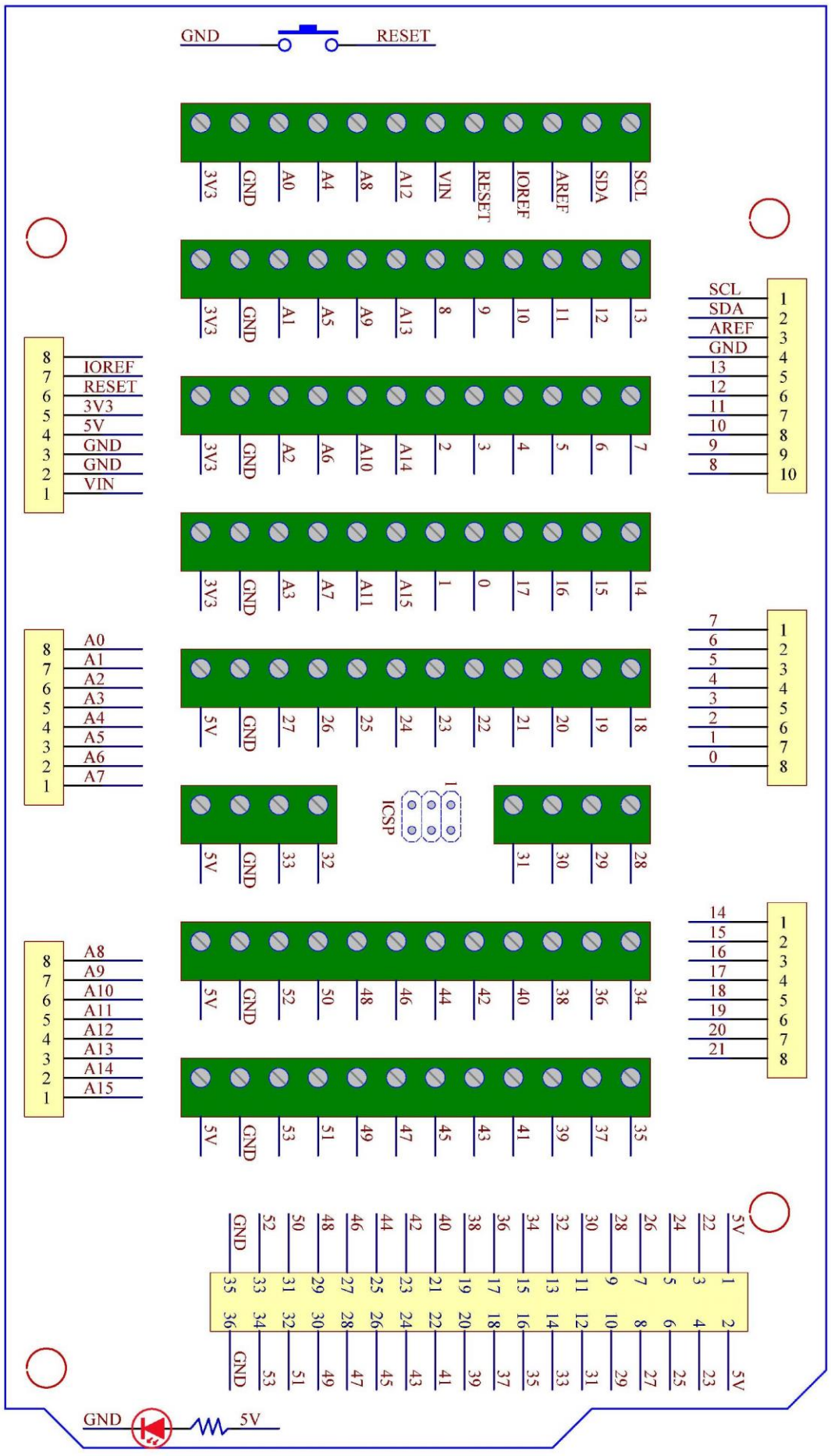
Model: F-1016

Feature:

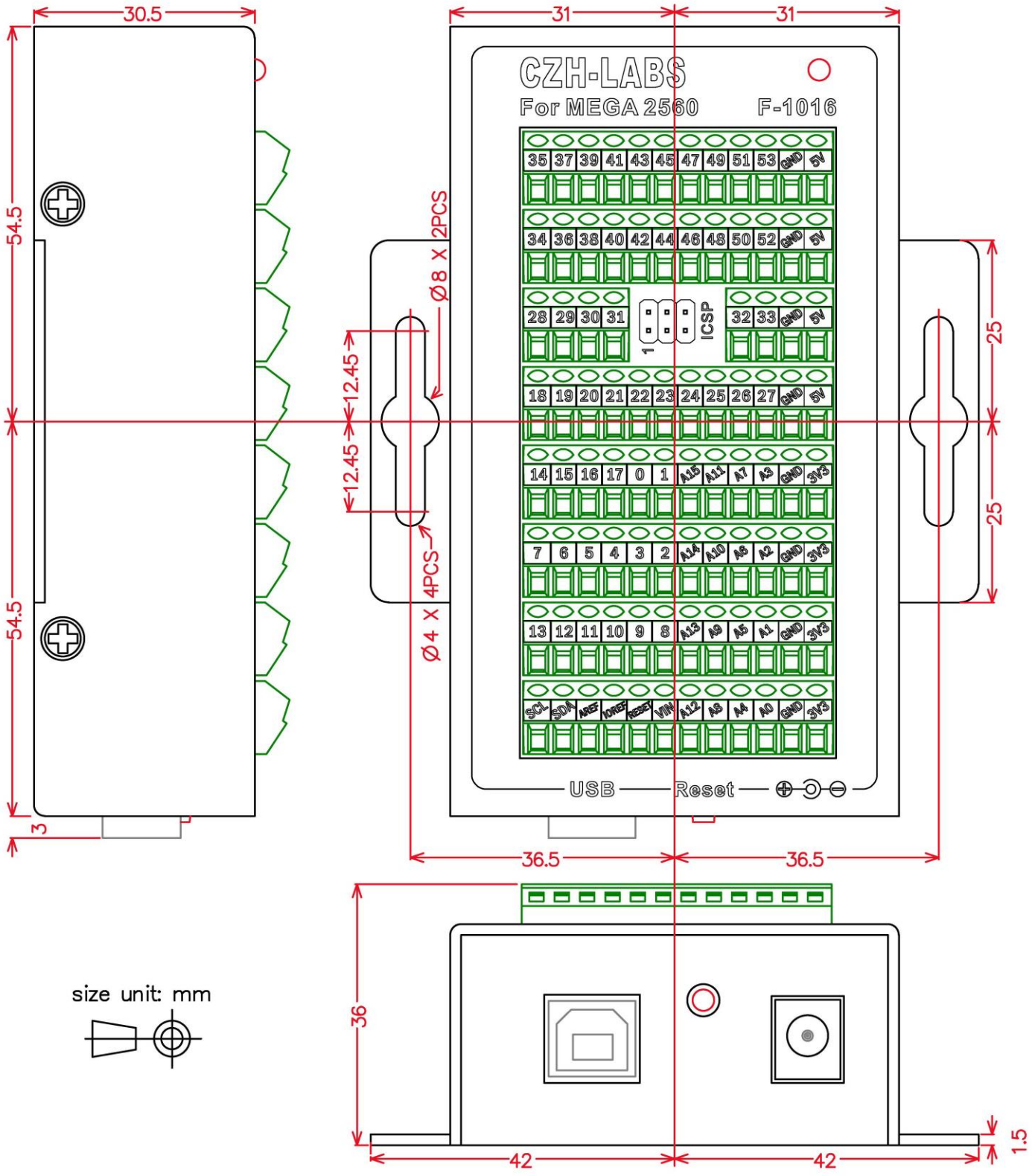
- MEGA2560 Screw Terminal Block Breakout Module with Aluminum Enclosure. With the adapter module you can easily extend Arduino MEGA2560 projects to industrial control applications. Applications for Arduino MEGA2560 R2 / R3 (NOTE: the item not include Arduino MEGA2560).
- Terminal block pitch 3.5mm/0.138", wire size range 26AWG to 16AWG, strip length 5mm, screw M2 steel, pin header and cage copper. With power on LED indicating, red reset button on the side, with a ICSP adapter connect header.
- 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(assembled standoffs and screws), 1x Aluminum enclosure(top and bottom covers), 5x M3x4mm Flat head screws(for top and bottom cover), 4x M2x6mm Standoff, 4x M2x6mm Flat head screw, 2x DIN rail adapter bracket, 4x M3x10mm Flat head tapping screw(for DIN rail adapter bracket). 1x 2x3pin header connector(for ICSP).



Schematic:


GND
RESET
3V3 GND A0 A4 A8 A12 VIN RESET IOREF AREF SDA SCL
3V3 GND A1 A5 A9 A13 8 9 10 11 12 13
3V3 GND A2 A6 A10 A14 2 3 4 5 6 7
3V3 GND A3 A7 A11 A15 1 0 17 16 15 14
5V GND 27 26 25 24 23 22 21 20 19 18
5V GND 33 32
31 30 29 28
5V GND 52 50 48 46 44 42 40 38 36 34
5V GND 53 51 49 47 45 43 41 39 37 35
ICSP
1
8 IOREF 7 RESET 6 3V3 5 5V 4 GND 3 GND 2 VIN 1
8 A0 7 A1 6 A2 5 A3 4 A4 3 A5 2 A6 1 A7
8 A8 7 A9 6 A10 5 A11 4 A12 3 A13 2 A14 1 A15
SCL 1 SDA 2 AREF 3 GND 4 13 5 12 6 11 7 10 8 9 9 8 10
7 1 6 2 5 3 4 4 3 5 2 6 1 7 0 8
14 1 15 2 16 3 17 4 18 5 19 6 20 7 21 8
GND 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 5V
35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1
36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2
GND 53 51 49 47 45 43 41 39 37 35 33 31 29 27 25 23 5V
GND
5V

Dimensions:


30.5
31
31
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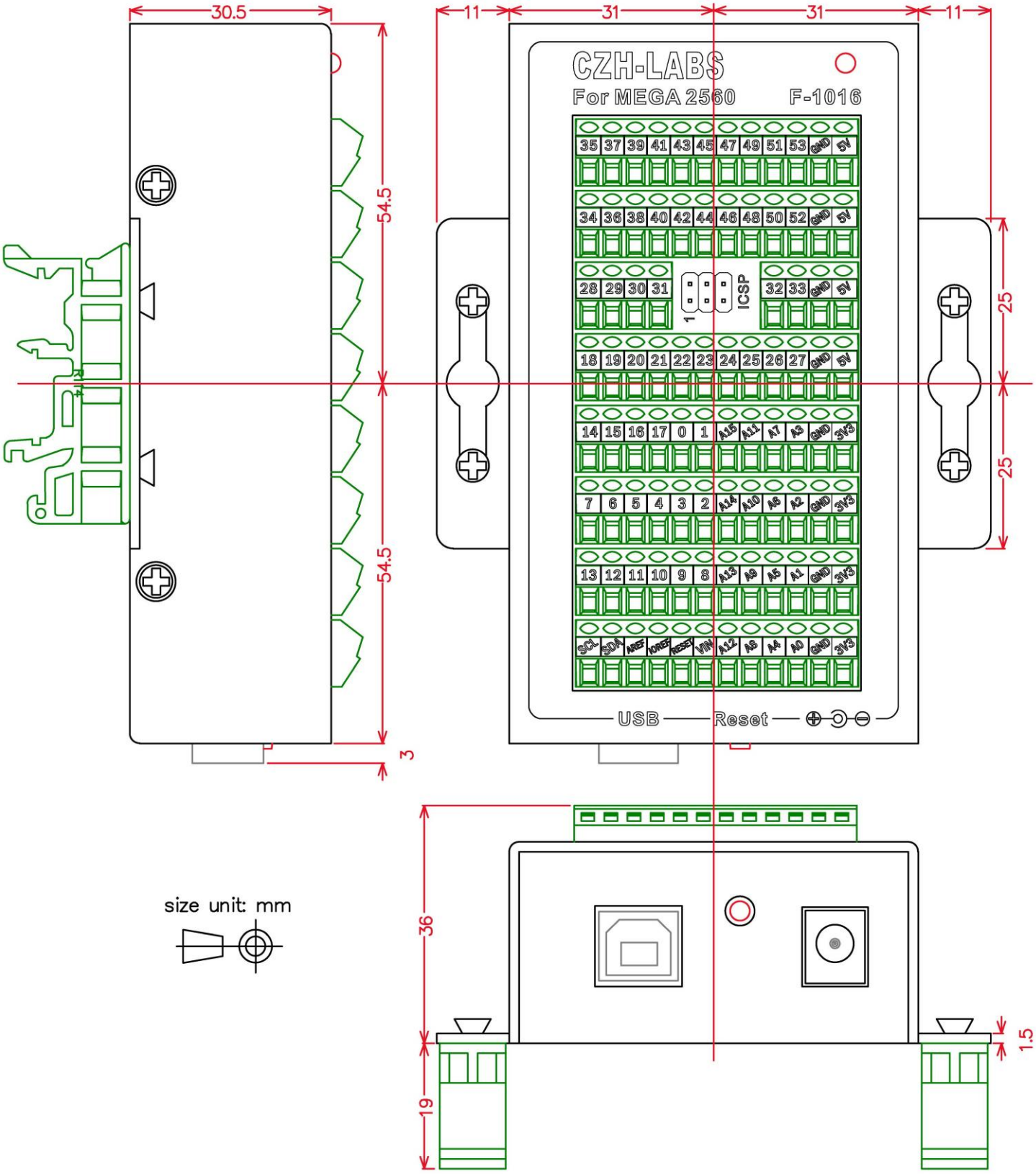
For MEGA 2560
F-1016
54.5
54.5
Ø8 X 2PCS
12.45
12.45
Ø4 X 4PCS
25
25
ICSP
USB
Reset
3
36.5
36.5
36
42
42
1.5
size unit: mm


30.5
54.5
54.5
3
11
31
31
11
25
25
CZH-LABS
For MEGA 2560
F-1016
35 37 39 41 43 45 47 49 51 53 GND 5V
34 36 38 40 42 44 46 48 50 52 GND 5V
28 29 30 31
ICSP
32 33 GND 5V
18 19 20 21 22 23 24 25 26 27 GND 5V
14 15 16 17 0 1 A15 A11 A7 A3 GND 3V3
7 6 5 4 3 2 A14 A10 A6 A2 GND 3V3
13 12 11 10 9 8 A13 A9 A5 A1 GND 3V3
SCL SDA AREF NONREST RESET VIN A12 A8 A4 A0 GND 3V3
USB
Reset
size unit: mm
36
19
1.5

Assembly Step:

1, Install 2x3pin ICSP connector, if you don't need the ICSP function, you don't have to install it.

2, Install the terminal block board to Arduino MEGA2560.

3, Install M2x6mm male standoffs to Arduino UNO.

4, Install bottom cover and M2x6mm screws with a small 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. if you don't need DIN rail mount, you don't have to install it.