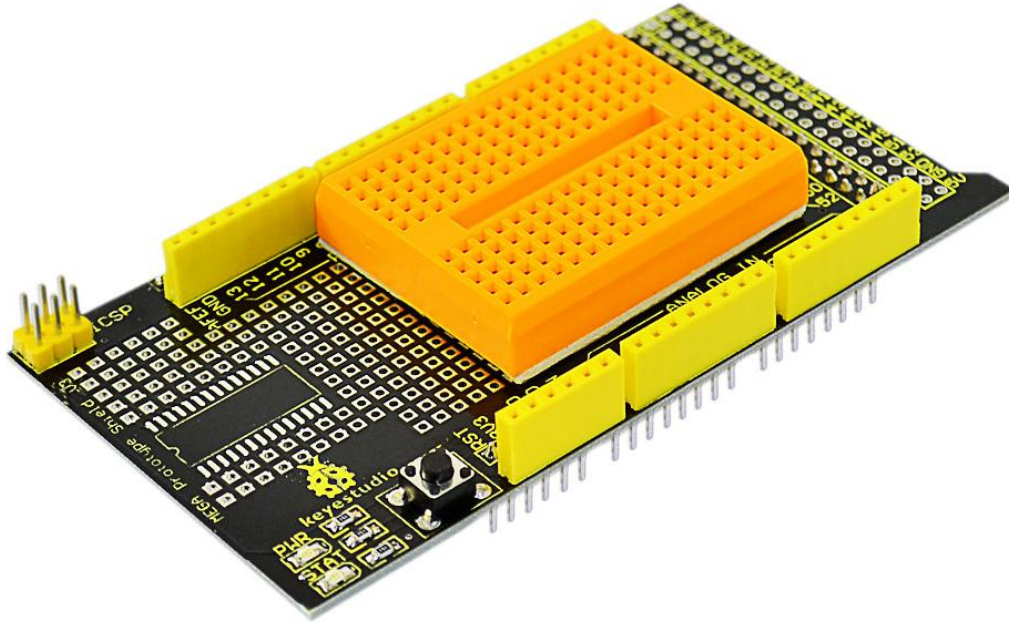# keyestudio

Keyestudio MEGA ProtoShield V3 with Tiny Breadboard

Introduction:

Keyestudio ProtoShield is particularly designed for the MEGA 2560. It makes it easy for you to design custom circuits and solder electronics directly on it.

For convenient use, there is a large prototyping space of both connected and unconnected spaced through-holes on the shield.

There is also a soldering position reserved for SMD chip on the protoshield. You can easily solder SMD ICs on the prototyping area to test them with your Arduino board.

It also extends out a row of power and ground through-holes, giving enough port resources.

You can even stick a tiny 170-holes breadboard (included) on the prototyping area.

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You can weld elements on the shield directly or connect circuits with tiny breadboard.

Features:

- Can be plugged into the MEGA 2560 control board
- Extends 5V, 3V and Arduino Vin pins
- Comes with a Reset button
- Comes with a power led and a D13 indicator
- Extends an ICSP interface
- Extends out all the control pins and power pins of Arduino
- Able to build the prototyping circuits matched with Arduino
- Can weld with 28PIN chip
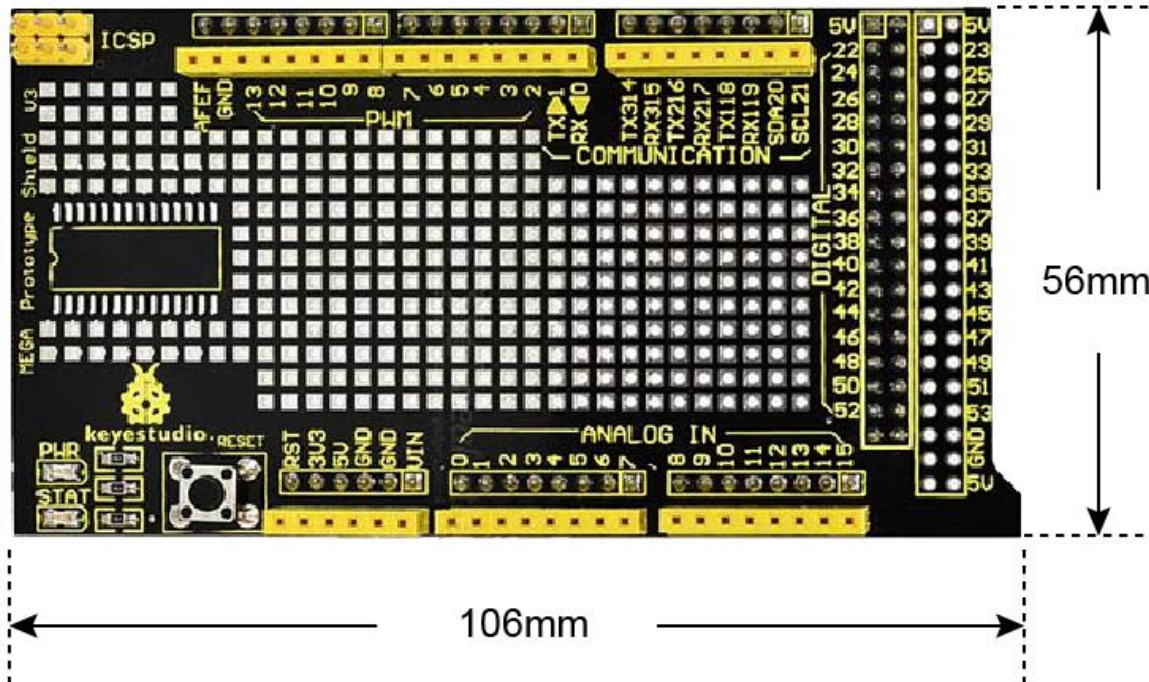- Includes a tiny 170-hole breadboard

Controllers Compatible:

- keyestudio MEGA 2560 R3
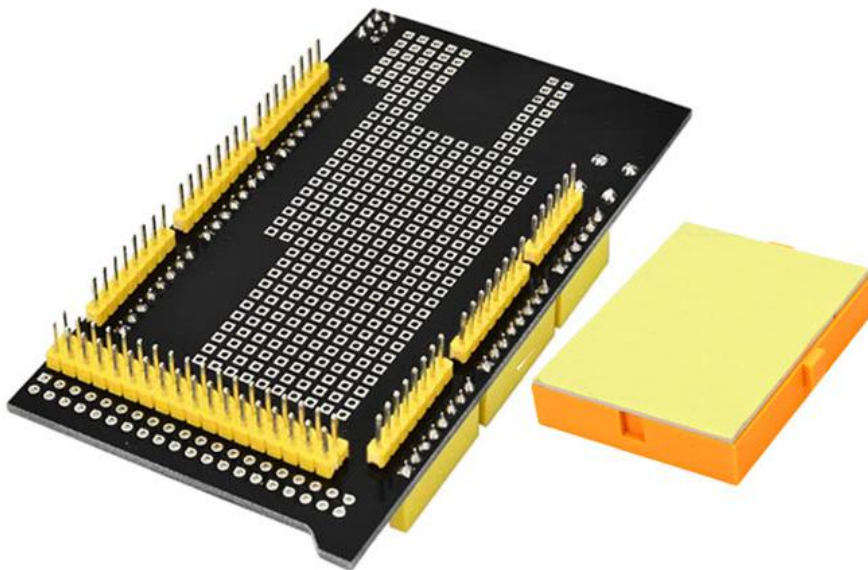- Arduino MEGA 2560 R3

Technical Details:

- Dimensions: 106mm x 56mm x 19mm
- Weight (only MEGA protoshield): 27.2g
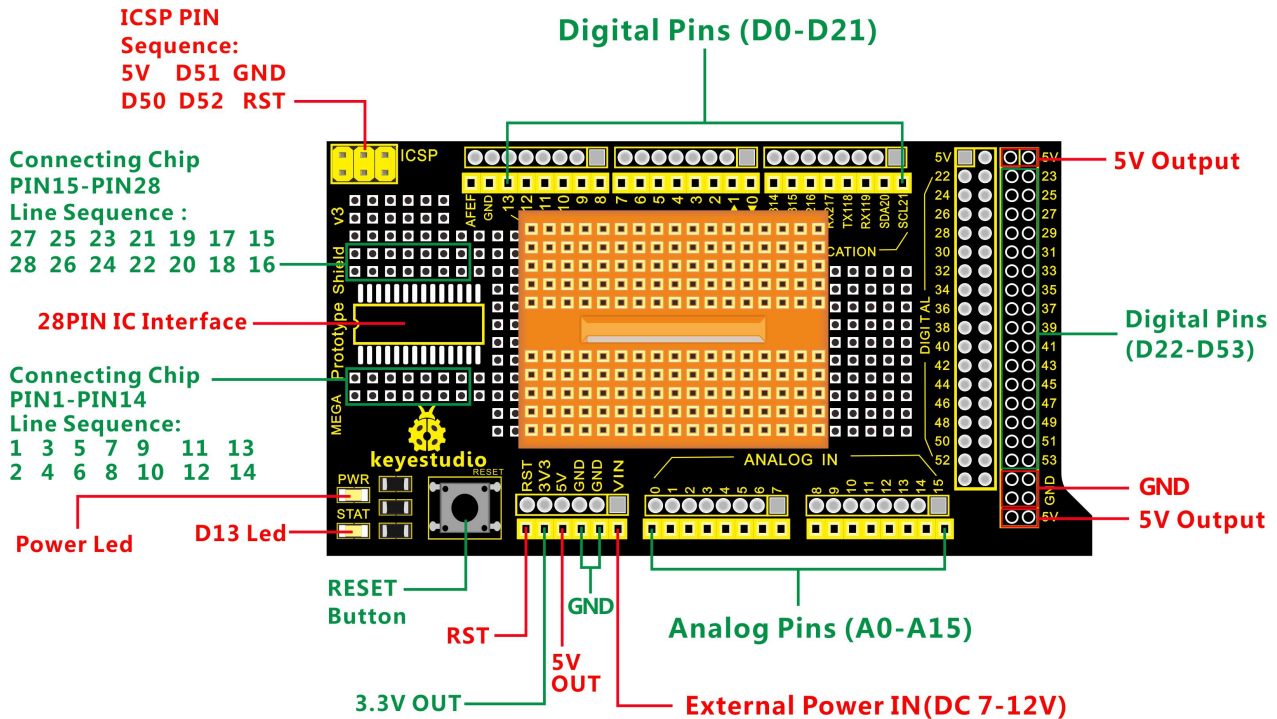
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Dimensions:

56mm

106mm

Back View:

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Pinout Instructions:

ICSP PIN
Sequence:
5V   D51 GND
D50 D52   RST

Digital Pins (D0-D21)

5V Output

Connecting Chip
PIN15-PIN28
Line Sequence :
27 25 23 21 19 17 15
28 26 24 22 20 18 16

28PIN IC Interface

Connecting Chip
PIN1-PIN14
Line Sequence:
1 3 5 7 9   11 13
2 4 6 8 10   12 14

Digital Pins
(D22-D53)

Power Led

D13 Led

GND

5V Output

RESET
Button

RST

GND

Analog Pins (A0-A15)

5V
OUT

3.3V OUT
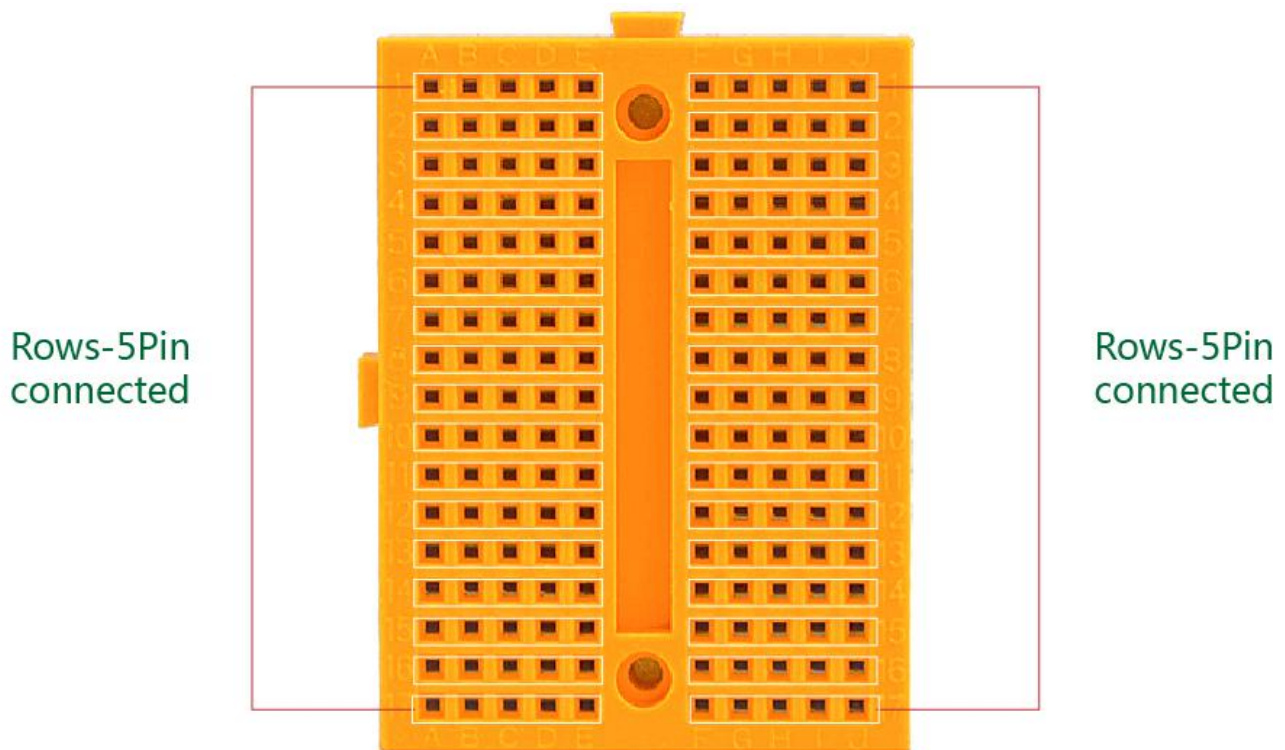
External Power IN(DC 7-12V)

ICSP

ANALOG IN

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Tiny Breadboard:

This is a solderless tiny breadboard. It has 10 columns, and 17 rows - a total of 170 tie in points. This tiny breadboard has a self-adhesive on the back.

You can stick it on the prototyping area of protoshield for solderless operation.

Rows-5Pin
connected

Rows-5Pin
connected

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Example Use:

You can first stick the 170-tie points breadboard on the prototyping area of Proto Shield. Stack the shield onto UNO R3 board. Use several LEDs, resistors and breadboard jumper wires to build the circuit experiments.