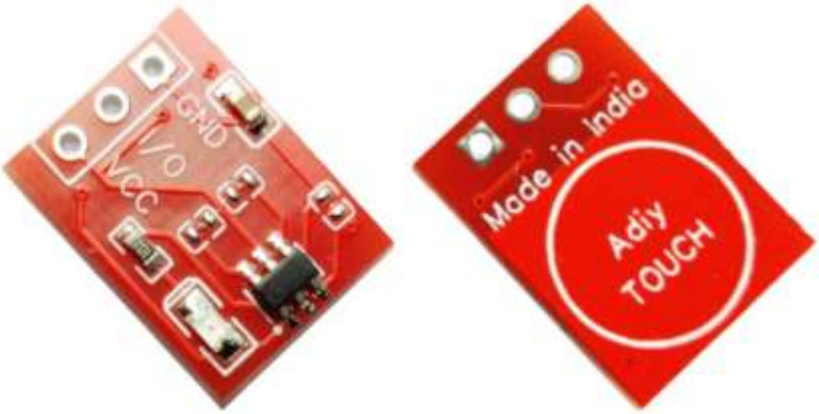
# TTP223 Touch Sensor (Red)



## Description:

The TTP223 is a touch pad detector IC replicating a single tactile button. This touch detection IC is designed for replacing traditional direct button key with diverse pad size.

When the module is triggered the output will switch from its idle LOW state to HIGH. Solder jumpers allow for reconfiguring the mode of operation to be either active low or toggle output.

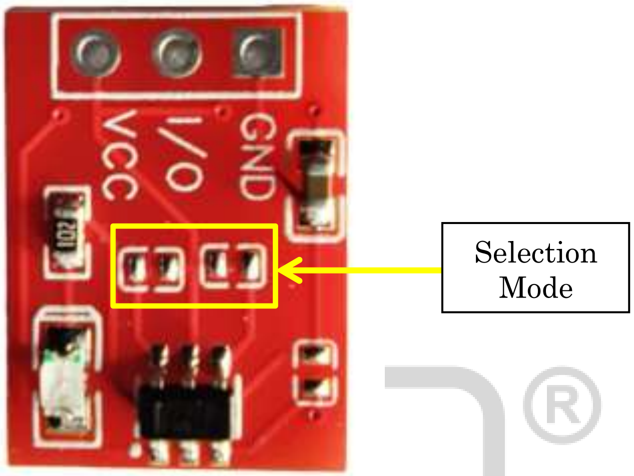
## Features:

- Supports momentary or latching/toggle modes.
- Supports Active High or Active Low output signal modes.
- All output modes can be selected active high or active low by pad option.
- After power-on have about 0.5sec stable-time, during the time do not touch the key pad, and the function is disabled.
- Auto calibration.
- Re-calibration period is about 4.0sec, when key has not be touched.

## Specification:

- Input Voltage : 2V-5.5V DC
- The response time max ~ 60mS in fast mode, ~220mS at low power mode @VDD=3V
- Sensitivity can adjust by the capacitance(0~50pF)

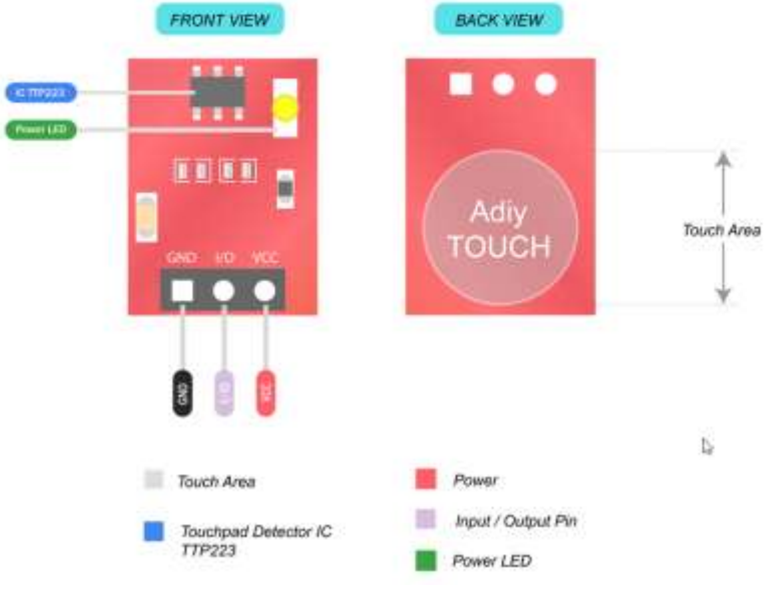
## Trigger setting mode:


GND
I/O
VCC
Selection Mode

(1 – Short; 0 – No short)

- 00 :- No-lock high TTL level output;
- 01 :- Self-lock high TTL level output;
- 10 :- No-lock low TTL level output;
- 11 :- Self-lock low TTL level output

## Pin Configuration:


FRONT VIEW
BACK VIEW
IC TTP223
Power LED
GND I/O VCC
GND
I/O
VCC
Adiy TOUCH
Touch Area
Touch Area
Touchpad Detector IC TTP223
Power
Input / Output Pin
Power LED

**VCC:** Supply Voltage

**GND:** Ground

**I/O:** Input/ Output pin

## Advantages:

- Detects touch or near proximity without relying on physical contact
- Small size
- Low cost

## Applications:

- Control panel
- Home applications
- Automotive and Industrial usages

a d i y