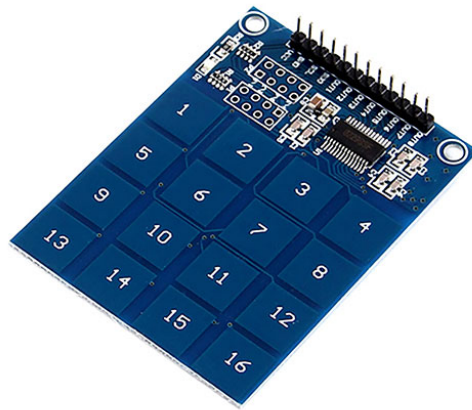


## ***TTP229 16 Key Capacitive Keypad***

### ***Model:TTP229 16-Way***



#### **Description:**

This 16 key capacitive touch keypad is based on the TTP229 capacitive sensor with accurate sensing of up to 16 points. Using this keypad provides a solid state alternative to mechanical type keypads providing the advantage of greater durability especially in dusty environments. The keypad can also be configured in different modes providing various key group options up to 16 independent keys. Outs 1 to 8 on the header connector mimic the states of the first 8 keys. When in 16 key mode the state of all 16 keys can be read via its 2 wire serial interface. Please see out example Arduino sketch or datasheet for more information on how to read the key states via the serial interface.

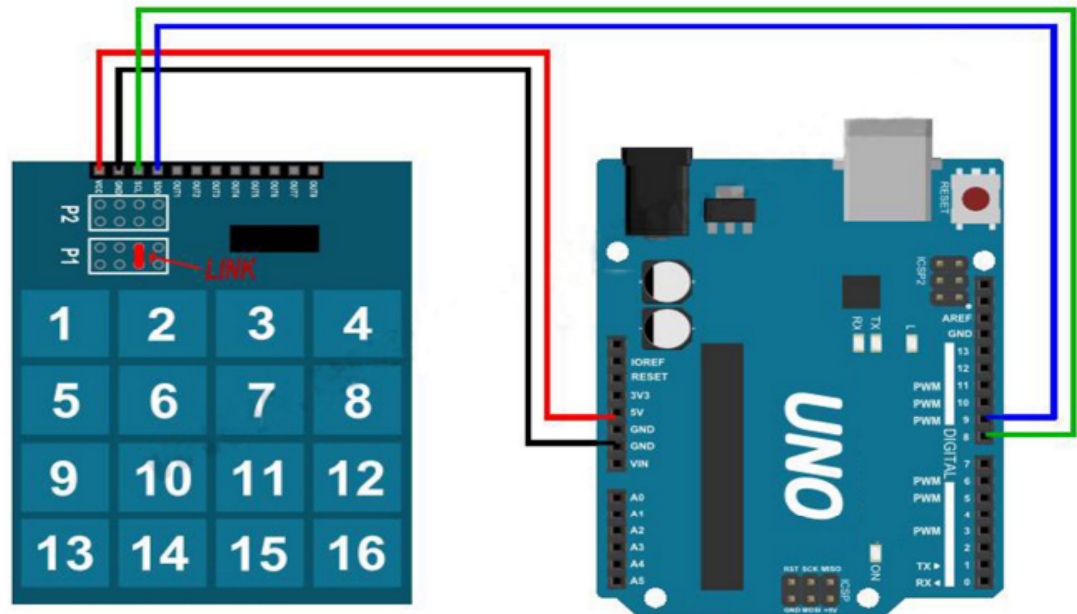
#### **Features:**

- Simple to Use, Auto Calibration
- Power LED
- Operates in 8 or 16 channel mode
- Output can be configured to be Active High or Low
- Output Mode can be configured to Toggle or Momentary
- Easy to replace mechanical key outputs
- Output can be directly connected to Microcontroller's Input pins

#### **Specifications:**

- Operating Voltage: 2.4V~5.5V
- Built-in regulator
- Stand-by current At 3V, and sleep mode slow sampling rate 8Hz
  - => Typical 2.5uA for 16 input keys
  - => Typical 2.0uA for 8 input keys
- 8 Key or 16 key modes

- Separate outputs to 8 keys in 8 key mode
- 2 wires serial output interface for both 16 key and 8 key mode
- Outputs can be set to CMOS/OD/OC with active high/low
- 2 Wires serial interface can select active high or low by option
- Optional Multi-key or single-key
- Provides two kinds of sampling rate: slow sampling rate 8Hz and fast sampling rate 64Hz at sleep mode
- Optional maximum key-on time about 80sec
- Auto calibration at power up (keypad must not be touched for 0.5 seconds after power up)
- Auto calibration for changes in environment
- PCB Board Size: 50 (mm) x65 (mm)



*Made in China*