

Description:

This TTP226 8 Channel Capacitive Touch Sensor Module add a touch to your project. Just power with 2.4 to 5.5VDC and touch the pad to activate the sensor. These touch switches interface easily to any project – with or without a microcontroller.

When a capacitive load (such as a human hand) is close to the sense-pad, the sensor detects the capacitance change and activates the switch. Custom sense pads can be made from nearly any conductive material. These sensors can detect touch through thin layers of non-conductive materials such as glass, plastic, fabric or even wood. So, you can make this sensor hidden in the wall, tabletop and other places, which allows you to remove the conventional push-buttons troubles.

There are totally 8 pads on this module, and these sense pads can be extended with wire and almost any conductive material so that you can add 8 touch switch easily for your project.

Specifications:

Eight-channel touch key sensing

2.5V – 5.5V Operating Voltage

Operating current 2.5uA typically in low power mode. Maximum operating current 9.0uA at Fast mode.

Response time – 100ms at fast mode and 200ms at low power mode.

Adjustable sensitivity using an external capacitor (0-50 pF)

Stable touch detection of the human body

All output modes can be configurable for high or active low by pad options.

Direct mode and Toggle mode selection pin available

Auto calibration feature for life. The re-calibration period is about 4.0sec when the key has not been touch.

one output pin TPQ0D that has no diode protection circuit inbuilt and it is active low

Provides fast mode and low power mode selection by pad optional (LPMB pin).

Provides direct mode or toggle mode, CMOS output, or open-drain output. active high or active low by option (TOG/AHLF/OD pin).

Board Size: Approx 47.5x46mm

8 board-level status indicator

The module can set the output mode, the key output mode, the maximum output time and fast/low power selection.



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