

Capacitive Touch Sensor Module TTP223



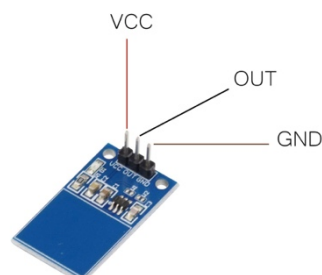
Features:

The TTP223 module is a point-type capacitive touch switch with low-power operation and adjustable sensitivity. It outputs a digital signal that goes HIGH when touched and LOW when idle. The module supports fast and low-power modes, selectable output logic, direct and toggle modes, and open-drain or CMOS output. It features auto-calibration, external reset support, and can be mounted under non-metallic surfaces such as plastic, glass, or paper. Ideal for replacing mechanical push buttons in consumer electronics, waterproof devices, and hidden touch switches.

Specifications	
Operating Voltage	2.0–5.5V
Operating Current (Low Power Mode)	1.5–4 μ A @ 3V, no load
Operating Current (Fast Mode)	3.5–13 μ A @ 3V, no load
Response Time (Fast Mode)	60ms
Response Time (Low Power Mode)	220ms
Sensitivity	Adjustable via 0–50pF external capacitance
Sampling Length	Selectable via SLRFTB pin
Output Modes	Direct, Toggle, Open Drain, CMOS
Output Logic	Selectable Active High / Active Low (AHLB pin)
Maximum On Time	100s (MOTB pin option)
External Power-On Reset	Yes (RST pin)
Auto Calibration	4-second recalibration when idle
Usage	Consumer products, waterproof devices, button replacement

Pinouts:

Pin Name	Type	Description
VCC	Power	Positive voltage input (2–5.5V)
GND	Power	Module ground
OUT	Output	Digital output, HIGH when touched, LOW when idle



Product Pictures:

