

Grove - Capacitive Touch Slider Sensor (CY8C4014LQI)

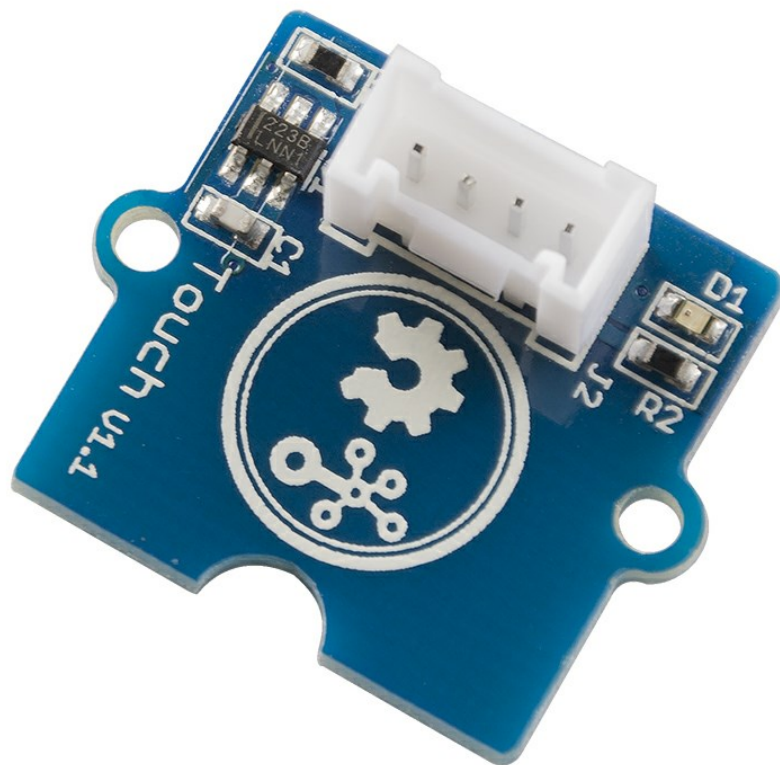
SKU 101020552



1

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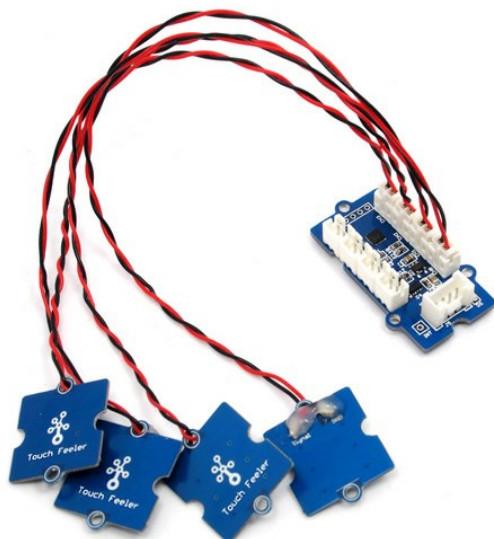




Grove - Touch Sensor

Grove - Touch Sensor

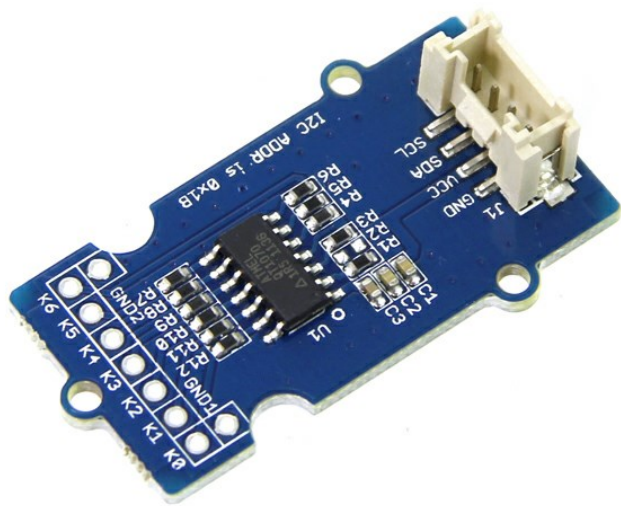
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Grove - I2C Touch Sensor

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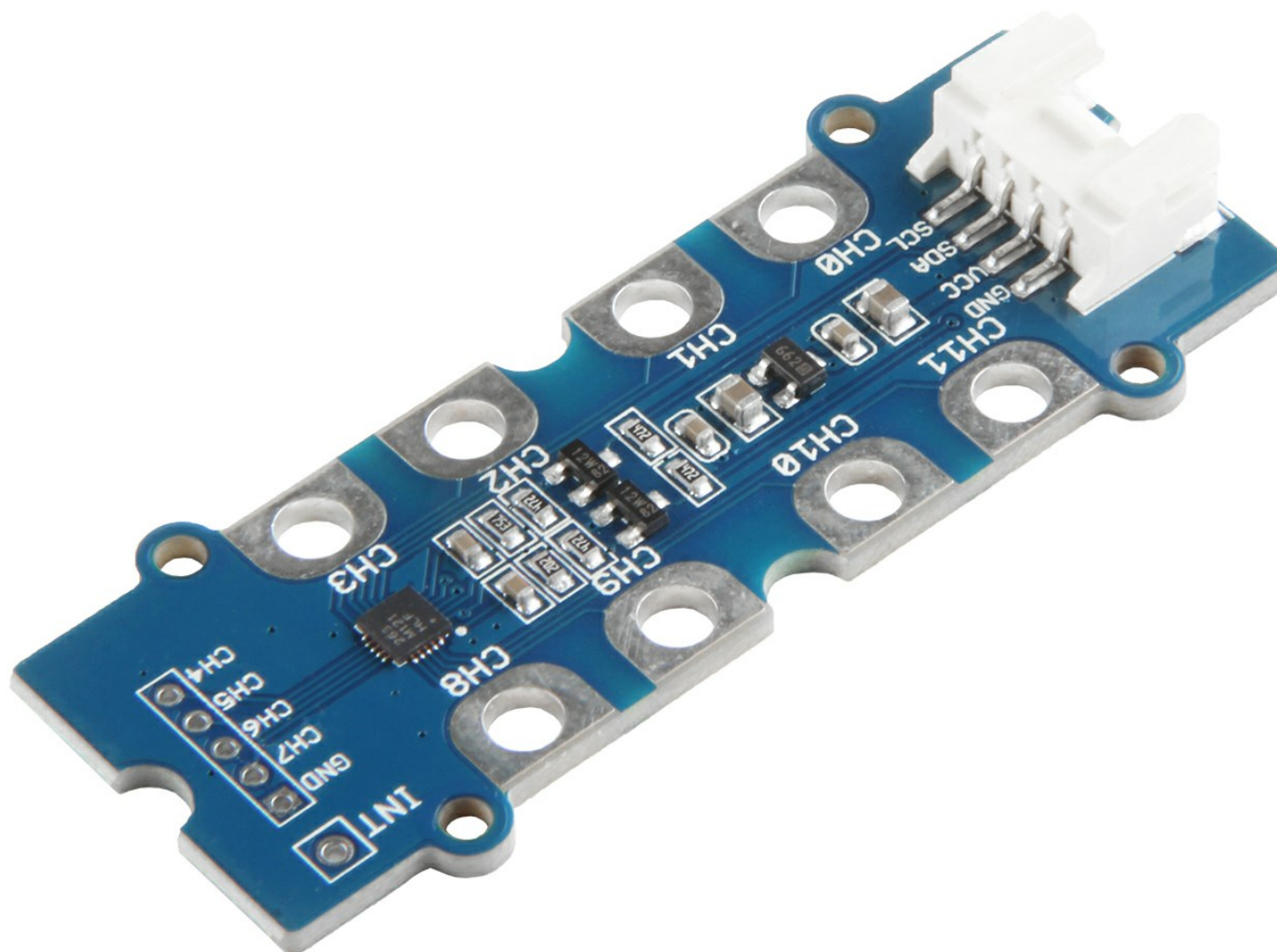
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## Grove-Q Touch Sensor

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Grove - 12 Key Capacitive I2C Touch Sensor V2 (MPR121)

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### Description



The Grove - Capacitive Touch Slider Sensor (CY8C4014LQI) is a multifunctional touch sensor. You can touch the two buttons or slide on the 5-segment slider, each touch pad has a corresponding LED to indicate the touch status. Also we provide a default high interrupt pin, once you touch the button or slide the slider, it will come to low.

It will be a lot fun to use this module as a game controller or apply it to other touch applications.

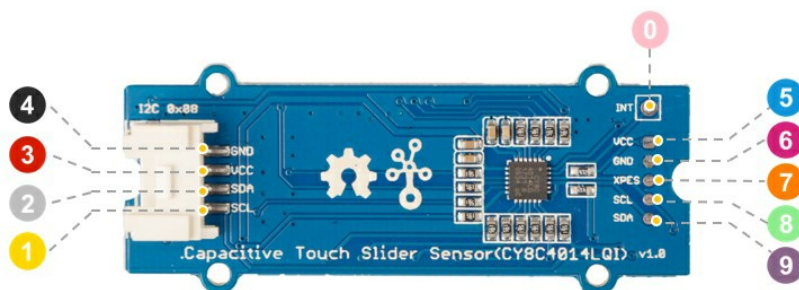
## Features

- 32-bit MCU Subsystem
- 16-MHz ARM Cortex-M0 CPU
- Up to 16KB of flash with Read Accelerator
- Up to 2KB of SRAM
- Automatic hardware tuning (SmartSense™) over a sensor range of 5 pF to 45 pF
- I2C interface

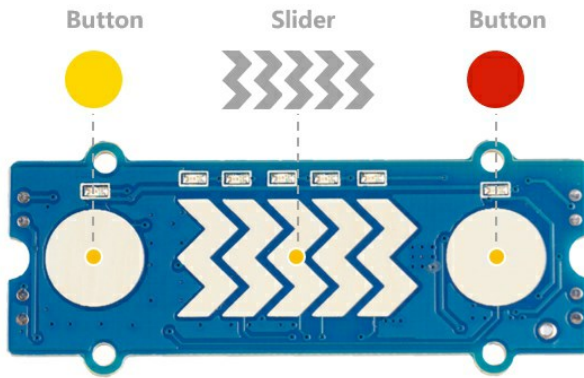
## Typical Applications

- Game controller
- Touch applications

## Pin Out



- |   |  |
|---|--|
| ④ GND: connect this module to the system GND  | ⑤ VCC: you can use 5V or 3.3V for this module                                |
| ③ VCC: you can use 5V or 3.3V for this module | ⑥ GND: connect this module to the system GND                                 |
| ② SDA: I <sup>2</sup> C serial data           | ⑦ XPES: Connect to the XRES pin, external reset I/O pin                      |
| ① SCL: I <sup>2</sup> C serial clock          | ⑧ SCL: I <sup>2</sup> C serial clock, work as SWDCLK when burn the firmware  |
|   | ⑨ SDA: I <sup>2</sup> C serial clock, work as SWDDATA when burn the firmware |
|   | ⑩ INT: Default High, turn to low when button or slider triggered             |



## Technical Details

Dimensions	20mm x 60mm x 6mm
Weight	G.W 8.20g
Battery	Exclude
Operating Voltage	3.3V / 5V
Operating Ambient Temperature	-40°C to +85°C
Operating Junction Temperature	-40°C to +100°C
Interface	I2C
Default I2C Address	0x08

## Part List

Grove - Capacitive Touch Slide Sensor(CY8C4014LQI)	1
Grove Cable	1

## ECCN/HTS

ECCN EAR99  
HSCODE9031900090

## Documents

Grove - Capacitive Touch Slide Sensor(CY8C4014LQI) Eagle Files  
Grove touch sensor CY8C40XX Library  
Datasheet of CY8C4014LQI

## Learn



### [Wiki] Grove - Capacitive Touch Slide Sensor(CY8C4014LQI)

This is the wiki page for this product, which will show you how to use the product, as well as details about the software and hardware.

## Questions and Answers

Have a question about this? Ask people who



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