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> GODIYMODULES 12x12mm Big Key Module Button Light Touch Switch User Manual

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Model: 12X12MM Big Key Module Button Light Touch Switch

Brand: GODIYMODULES

1. PRODUCT OVERVIEW

The GODIYMODULES 12x12mm Big Key Module Button Light Touch Switch is a versatile input component designed for various microcontroller platforms, including Arduino, SCM, ARM, and Raspberry Pi. This module provides a simple digital output, signaling a high level when pressed and a low level when released. It features a 3-pin interface for easy connection.



Figure 1: Overview of the 5-piece 12x12mm Big Key Module Button set. Each button is mounted on a small PCB segment, connected in a row, featuring distinct colors.

Package Contents:

- 5 x 12x12mm Big Key Module Button Light Touch Switches (one each of Black, Blue, Yellow, Red, Green)

2. SETUP AND CONNECTION

This section details the steps required to correctly connect the Big Key Module Button to your development board.

2.1 Pinout Description

Each button module features a 3-pin interface. Understanding these pins is crucial for proper connection.

- **VCC:** Power supply input (3.5V to 5V DC).
- **GND:** Ground connection.
- **OUT:** Digital output pin.

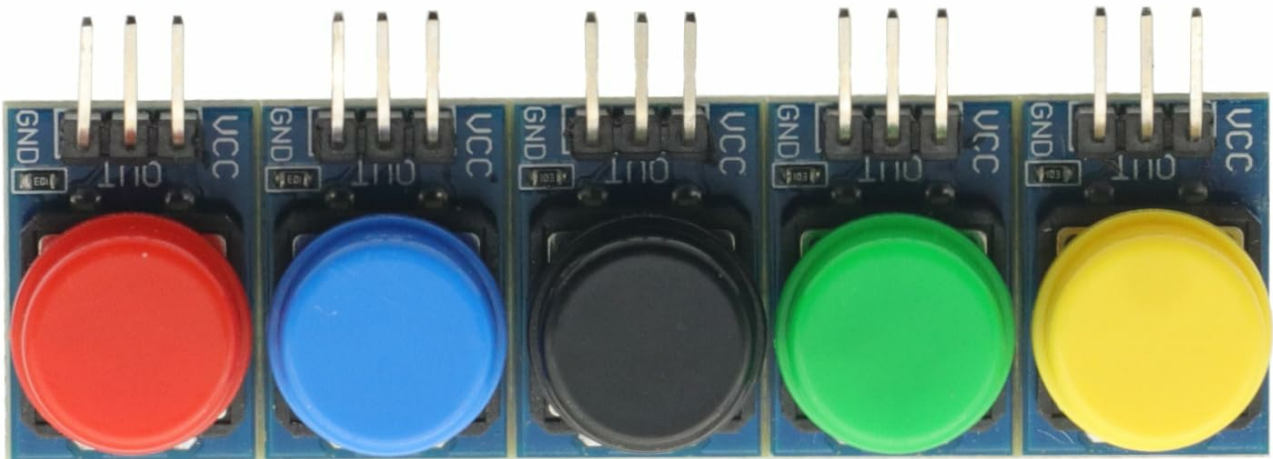


Figure 2: Pinout labels for the VCC, OUT, and GND connections on each button module.

2.2 Connection Steps

1. Connect the **VCC** pin of the button module to the 3.3V or 5V power supply output of your development board (e.g., Arduino, Raspberry Pi).
2. Connect the **GND** pin of the button module to the Ground (GND) pin of your development board.
3. Connect the **OUT** pin of the button module to a digital input pin on your development board.
4. Ensure all connections are secure and correctly aligned to prevent damage to the module or development board.

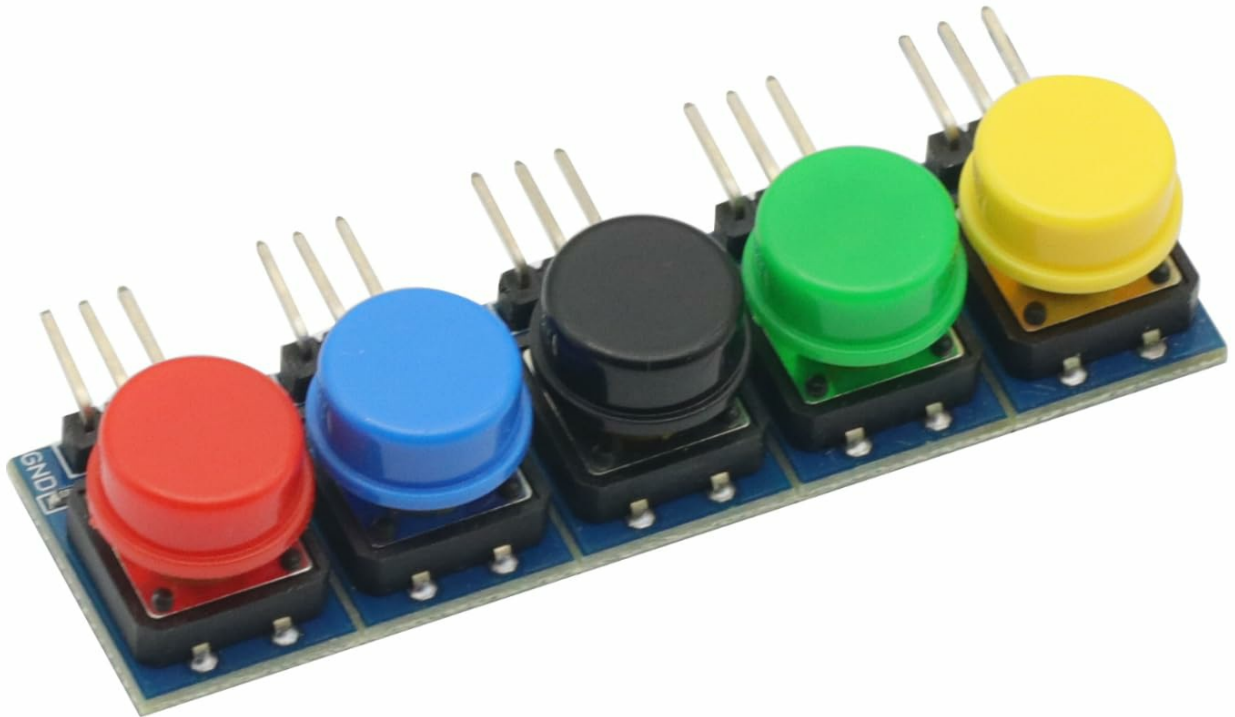


Figure 3: Side view illustrating the 3-pin headers for connection.

3. OPERATING INSTRUCTIONS

The Big Key Module Button operates as a simple digital input device.

- When the button is **pressed**, the **OUT** pin will output a **High Digital Level** (typically 3.3V or 5V, depending on VCC).
- When the button is **released**, the **OUT** pin will output a **Low Digital Level** (typically 0V).

You can read the state of the button using the digital read function on your microcontroller. For example, in Arduino, you would use `digitalRead(pinNumber)` to get the current state.

4. MAINTENANCE

To ensure the longevity and reliable operation of your Big Key Module Buttons, follow these maintenance guidelines:

- **Cleaning:** Keep the modules free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using liquids or

abrasive materials.

- **Storage:** Store the modules in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the modules by their PCB edges to avoid touching the electronic components or bending the pins.

5. TROUBLESHOOTING

If you encounter issues with your Big Key Module Button, refer to the following troubleshooting tips:

- **No Output/Incorrect Output:**
 - Verify that VCC and GND connections are correct and secure.
 - Ensure the power supply voltage is within the specified range (3.5V - 5V).
 - Check the connection of the OUT pin to your microcontroller's digital input.
 - Test with a different digital input pin on your microcontroller.
 - Inspect the module for any visible damage or bent pins.
- **Button Not Responding:**
 - Ensure the button is fully pressed and released.
 - Check for any physical obstructions preventing the button from moving freely.

6. SPECIFICATIONS

Feature	Specification
Product Name	Key module
Module Size	11 x 22 mm
Button Size	12 x 12 mm
Operating Voltage	DC 3.5V - 5V
Output Type	Digital Level (Press High, Release Low)
Interface	3P Interface (VCC, GND, OUT)
Compatible Platforms	Arduino, SCM, ARM, Raspberry Pi
Package Contents	5PCS Big Key Module Button Light Touch Switch (Assorted Colors)
Item Weight	0.704 ounces (approx. 20g for 5PCS)
Package Dimensions	3.94 x 1.97 x 0.39 inches

7. WARRANTY AND SUPPORT

For specific warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt for any warranty claims.



