

# keystudio

Keystudio Micro bit Honeycomb PS2 Joystick Module  
(Black and Eco-friendly)



## Overview

The keystudio micro bit Honeycomb PS2 joystick module is fully compatible with micro bit control board. In the experiment, we connect the joystick module to the micro:bit control board using crocodile clip wire. There are 6 ports on the module, two GND ports are connected. When controlling it, we need to connect the VRx, VRy port to the analog port of the micro:bit control board, and the SW port to the digital port of the micro:bit control board. We can judge the working state of the joystick on the module by reading the two analog values and the high and low levels of a digital port.

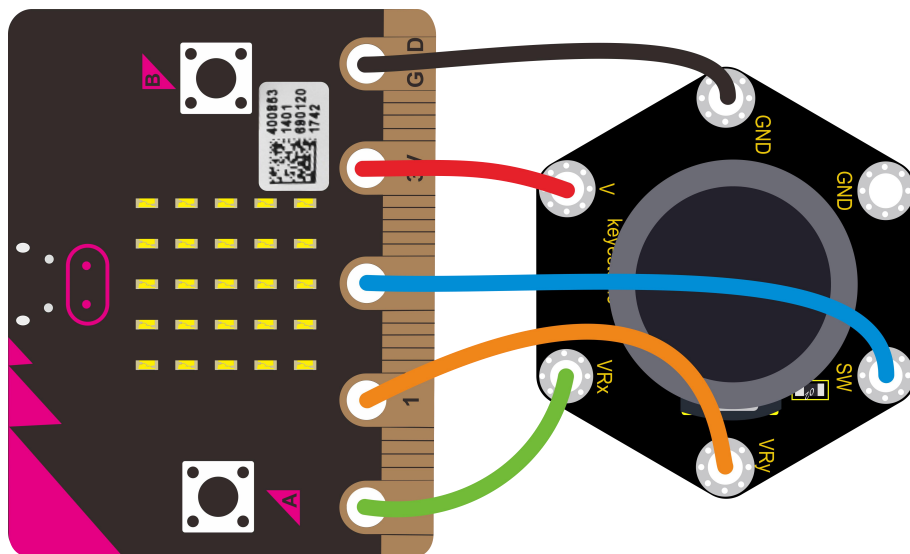
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Special Note: When testing the SW port function, for some products, we need connect a resistor to SW interface (connect to VCC port after connecting a resistor), the port function is valid; otherwise SW port is invalid.

## Technical Parameters

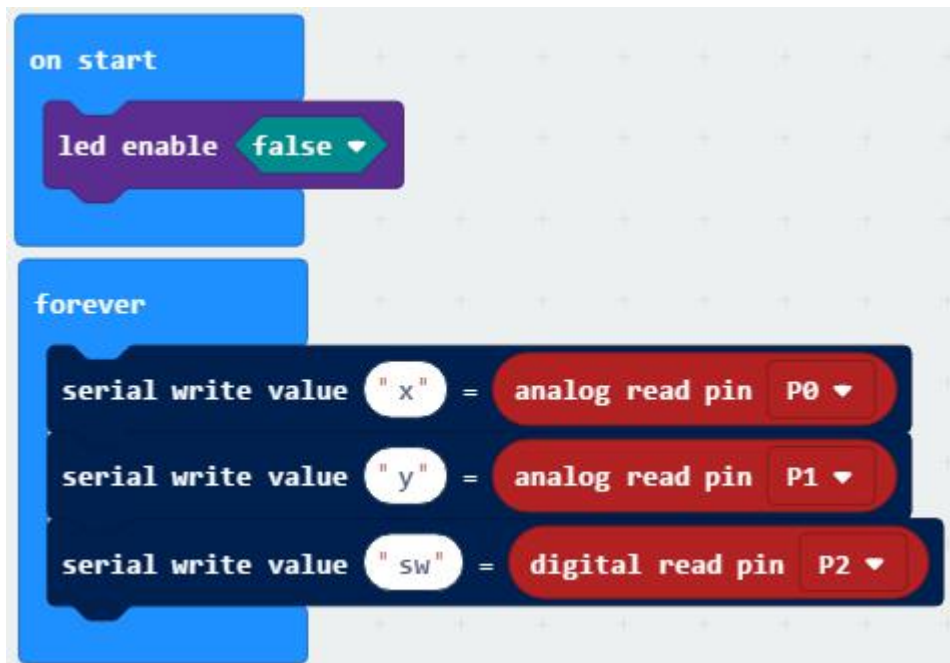
- Working voltage: DC 3.0-3.3V
- Control port: analog port (VRx VRy) and digital port (SW)
- Size: 40mm\*45mm\*31mm
- Weight: 11.5g
- Environmental attributes: ROHS

## Wiring Diagram



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## Test Code



```
on start
  led enable false

forever
  serial write value "x" = analog read pin P0
  serial write value "y" = analog read pin P1
  serial write value "sw" = digital read pin P2
```

The image shows a Scratch-style code editor with a light blue grid background. The code is organized into two main sections: 'on start' and 'forever'. The 'on start' section contains a single block: 'led enable false'. The 'forever' section contains three stacked blocks: 'serial write value "x" = analog read pin P0', 'serial write value "y" = analog read pin P1', and 'serial write value "sw" = digital read pin P2'. Each 'serial write value' block has a white input field containing the variable name in quotes, followed by an equals sign, and then a red 'analog read pin' or 'digital read pin' block with a dropdown menu showing the pin number (P0, P1, or P2).

## Test Result

According to wiring diagram, upload test code successfully. After power-on, we can see the analog value of the X-Y-axis on the PS2 joystick module and the digital value of the SW port on the dot matrix of the micro:bit control board.