

ATOM SWITCH Kit

SKU:K042

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Description

ATOM SWITCH is a bi-directional control programmable switch for the M5ATOM. It can be connected to bi-directional AC circuits for simultaneous on-off control. The on-board relay can support up to 250V / 10A AC(Instantaneous current 16A). Built in step-down module can provide 5V / 1A DC power supply for ATOM. In order to ensure safe use, its DC circuit has overheating and short circuit protection functions. In order to facilitate the use of users in industrial scenarios, an SP485EE level-conversion IC is built in. There are also a set of RS485 interfaces provided for the user to connect RS485 equipment. RS485 has the ability to supply power to ATOM, the support voltage is 9-24V. In addition, a set of HY2.0 interfaces is also provided for connecting I2C peripheral equipment or general I/O equipment. With the Bluetooth and WiFi functions of M5ATOM, you can easily setup a remote control switch. If you have multiple M5ATOM HUB SWITCH modules, you can set them up in parallel through the RS485 interface.

Product Features

- Compatible ATOM Matrix/ATOM Lite
- Built-in AC-DC circuit
- 2-way relay
- Built-in RS485 level-conversion, supporting Modbus
- HY2.0 port extend
- Short circuit protection
- Remote control via Bluetooth, WiFi and RS485

Include

- 1x ATOM SWITCH
- 1x ATOM Lite
- 4x Magnet
- 1x Magnet double-side tape
- 1x DIN Rail
- 1x 3.96*4P plug
- 3x 3.96*3P plug
- 1x M4 Hex Key
- 2x M4*10mm Hexagon countersunk screw
- 1x M2*20mm Hexagon socket cup head machine screw

Applications

Intelligent switch

Specification

Specification	Parameter
Relay	AC 250V/10A(Instantaneous current 16A), DC 5V/1A
Switch power supply(AC-DC)	AC 250V-DC 5V
RS485 supply voltage	9V-24V
Interface	1x HY2.0(PORT A), 1x VH3.96 4P(RS485), 2x VH3.96 3P(Relay), 1x VH3.96 3P(AC/DC IN)
net weight	134g
Gross weight	158g
Product Size	72*40*30mm
Package Size	104*77*35mm
Case material	Plastic (PC)

EasyLoader

EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host [Please click here to view the CP210X driver installation tutorial](#), M5StickC/V/T/ATOM series can be used without driver)

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Windows MacOS

Press the key to control the switch. The status of breathing light indicates the relay serial number and switch status. When the red light or green light is on, press the key to switch the status

Pin Map

ATOM	22	19	33	23	25	21
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ATOM HUB
SWITCH

Relay1 Relay2 RX TX SDA SCL

Schematic

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Example

- Arduino Example [Click Here](#)
- UIFlow Example [Click Here](#)

