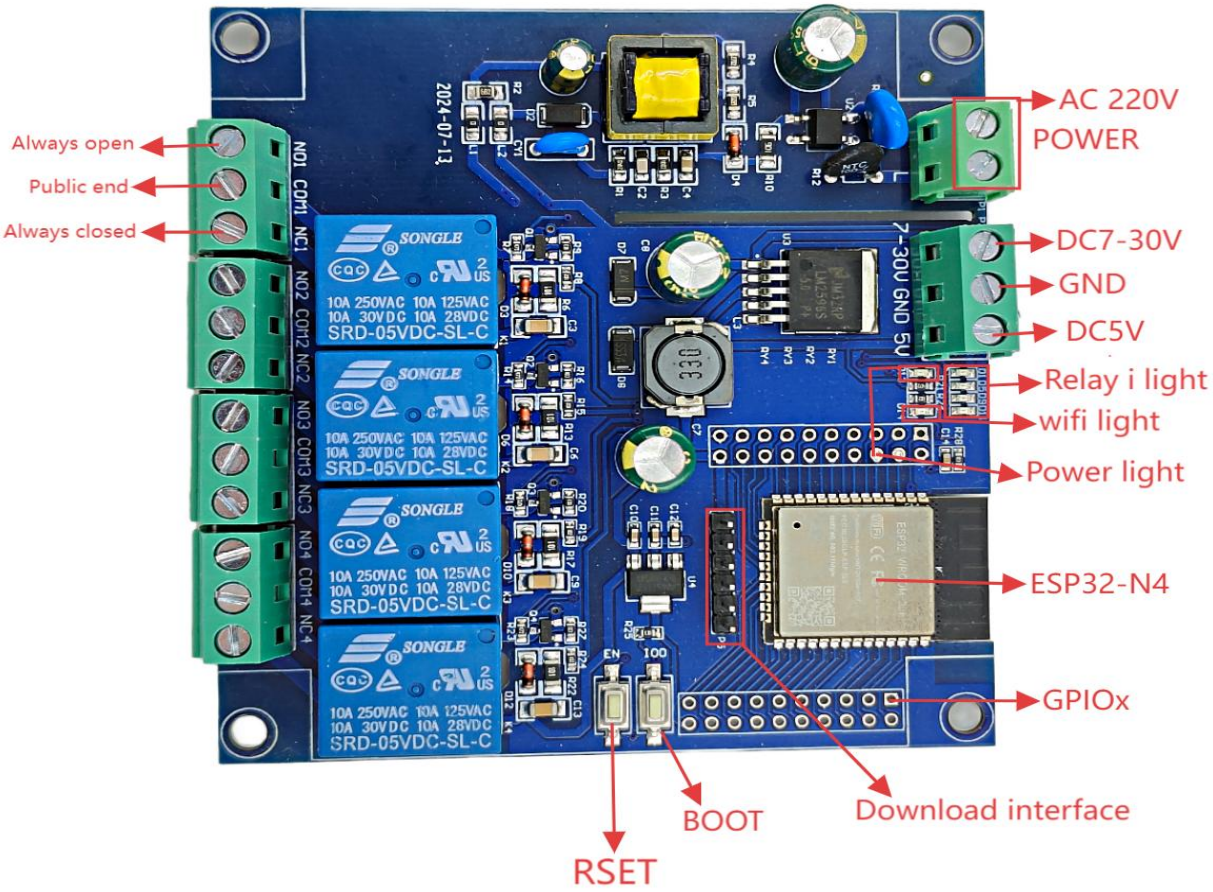
ESP32-4Relay-X4



The main image shows the ESP32-4Relay circuit relay used in this introduction

Next, I will introduce to you how to use Tasmota to control the ESP32-4Relay device.

1.Download the Tasmota firmware

2.Install and configure Tasmota

I. Overview

The AC/DC-powered ESP32 four-channel relay development board is equipped with the ESP32-WROOM-32E WiFi&BLE module, with all I/O ports led out. It supports AC220V/DC5-30V power supply methods. It is suitable for ESP32 secondary development learning, smart home wireless control and other occasions.

Ii. Functional Features

1. The on-board mature and stable ESP32-WROOM-32E module has a large capacity of 4M Byte Flash;
2. The I/O port and UART program download port of the ESP32 module are all led out, facilitating secondary development.
3. Power supply voltage: AC220V/DC5-30V;
4. On-board ESP32 module IO0 programmable key and reset key;
5. ESP32 supports the use of Arduino IDE development tools and provides reference programs in the Arduino development environment.
6. It is equipped with 4 on-board 5V relays that output switch signals, suitable for controlling loads with a working voltage of AC 250V/DC30V or less.
7. It is equipped with one programmable LED and relay indicator light on the board.

1.Download the Tasmota firmware

First, download the Tasmota firmware and select the firmware as Tasmota32.bin. This is the firmware download address：http://ota.tasmota.com/tasmota32/release/

The download tool for ESP32-4Relay is：flash_download_tool_3.9.7。

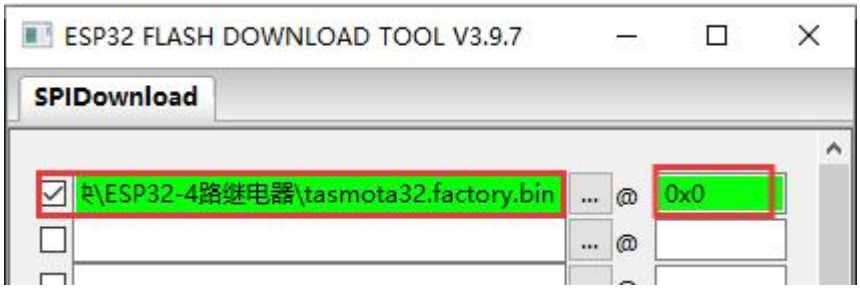
1. Use a jumper cap to connect the IO0 and GND pins. Prepare a TTL serial port module (for example: FT232) and plug it into the computer's USB. The connection method between the serial port module and the development board is as follows:
2.

TTLSerial port module	ESP32 Development board
GND	GND
TX	RX
RX	TX
5V	5V

The GND, RX, TX and 5V of the ESP32 are respectively connected to the GND, TX, RX and 5V of the external TTL serial port module. When downloading, IO0 needs to be

connected to GND. After the download is completed, disconnect the connection between IO0 and GND.

Figure 1



In Figure 1, I have marked some information during the download.

2. Install and configure Tasmota

1. Now let's list the GPIO pins used:

GPIO23-------- LED-D14
GPIO32-------- Relay1
GPIO33-------- Relay2
GPIO25-------- Relay3
GPIO26-------- Relay4

Next, we are going to use these GPIO.

2. After we download the firmware for the ESP32_4Relay-X4 device, power it on again. Then connect to the ESP32_4Relay-X4 released network tasmota-xxxxxxxx using the mobile phone's WiFi network.

Figure 2

When the content information in Figure 2 appears, you can configure the home WIFI network for the ESP32_4Relay-X4 device. After the configuration is completed, do not exit in time. At this point, a device IP address will appear, as shown in Figure 3. Because later we need the IP address of the device to access it.

Figure 3

At this point, we can enter this IP address :192.168.0.106 in the browser to access the device and configure and control it.

Figure 4

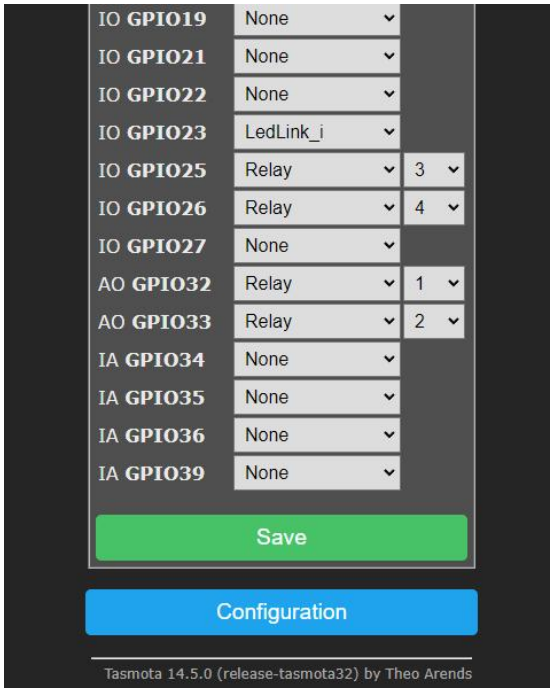


Figure 4 shows the information we need to configure for ESP32_4Relay-X4. Remember to Save after configuration.

Return to the start interface as shown in Figure 5. At this point, you can click the interface keys to control the device.

Figure 5