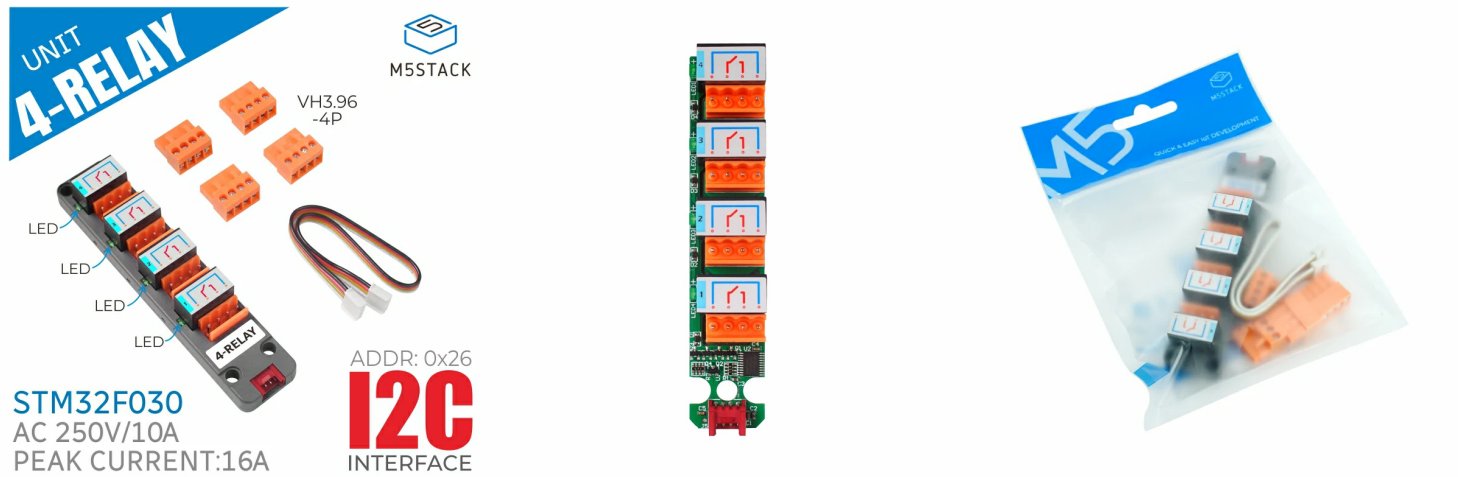


Unit 4-Relay

SKU:U097



Description

4-Relay unit is an integrated 4-way relay module which can be controlled by I2C protocol. The maximum control voltage of each relay is AC-250V/DC-28V, the rated current is 10A and the instantaneous current can hold up to 16A. Each relay can be controlled independently, each on it's own. Each relay has status (LED) indicator as well to show the state of the relay at any given time.

Product Features

- 4-way relay
- AC-250V/DC-28V/10A
- LED status indication
- I2C communication (0x26)

| Include

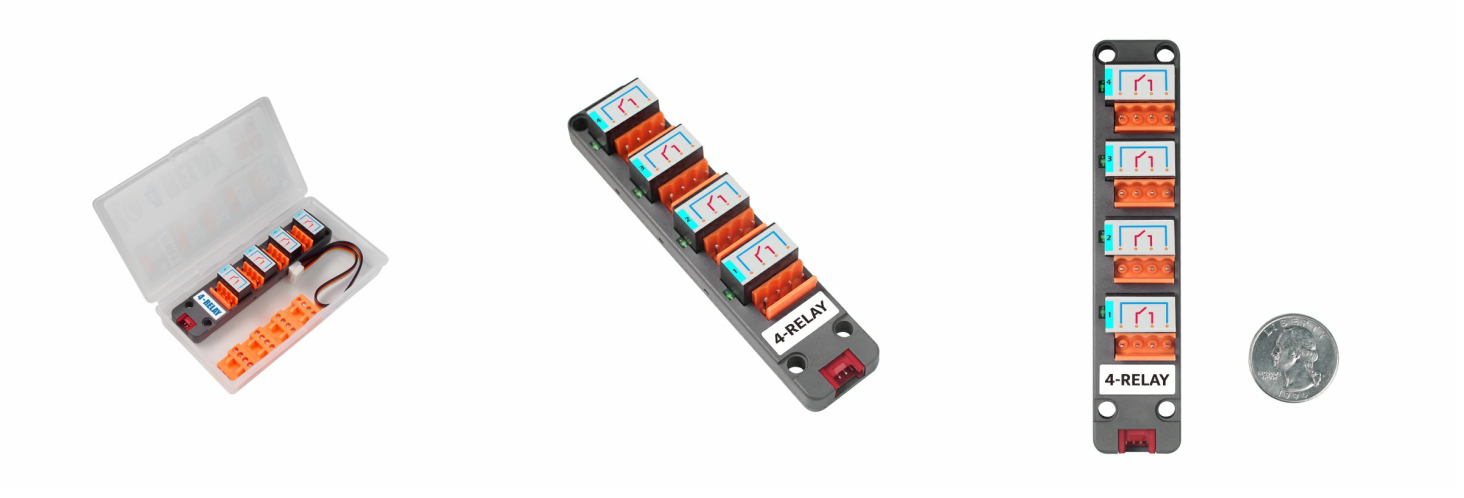
- 1x 4-Relay Unit
- 1x Grove Cable(20cm)
- 4x VH-3.96-4P Plug terminal

| Applications

- Digital signal switching
- Programmable power switch

| Specification

Resources	Parameter
Maximum input voltage	AC-250V/DC-28V
Rated current	10A
Maximum instantaneous current	16A
Communication	I2C(0x26)
Net Weight	40g
Gross Weight	84g
Product Size	112*23*18mm
Package Size	163*100*20mm



| EasyLoader

EasyLoader is a precise and fast program writer which has a built-in functionalities related to the 4-Relay unit. The Easyloader program can burn the firmware to the main controller board by simple easy to follow steps. Please install the corresponding driver according to the device type. [Please click here to view the CP210X driver installation tutorial](#) , M5StickC/V/T/ATOM series can be used without driver)

Download Windows Version Easyloader

Download MacOS Version Easyloader

4-RELAY_UNIT.mp4

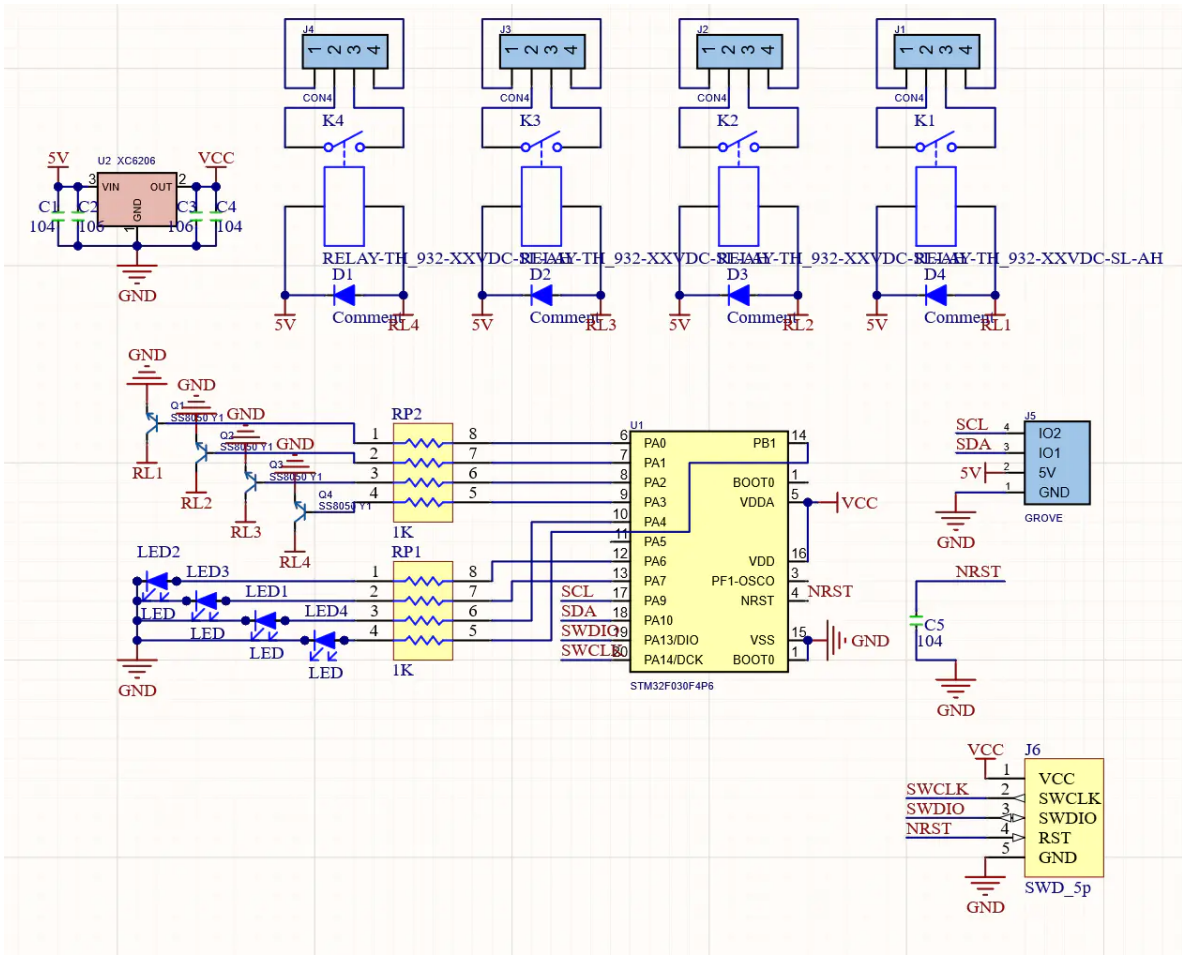
Description:

ButtonA switches relay number, ButtonB switches led sync/ async, Button C controls all relays

PinMap

M5Core(GROVE A)	SDA(GPIO21)	SCL(GPIO22)	5V	GND
4-relay Unit	SDA	SCL	5V	GND

Schematic



Protocol

- Protocol type I2C
- I2C Address: **0x26**

Mode control Reg 0x10

Bit	Desc	R/W
7	R	R/W
6	R	R/W
5	R	R/W
4	R	R/W
3	R	R/W
2	R	R/W
1	R	R/W
0	LED Sync Mode 0:Manual 1:Auto	R/W

Work Mode

Manual: LED lights support independent control

Auto: LED follows the Relay status changes,Relay ON will light up, OFF will turn off.

RELAY control Reg 0x11

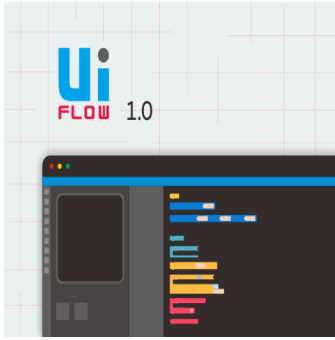
Bit	Desc	R/W
7	LED1 / 1: ON 0:OFF	R/W
6	LED2 / 1: ON 0:OFF	R/W
5	LED3 / 1: ON 0:OFF	R/W
4	LED4 / 1: ON 0:OFF	R/W
3	RELAY1 / 1: ON 0:OFF	R/W
2	RELAY2 / 1: ON 0:OFF	R/W
1	RELAY3 / 1: ON 0:OFF	R/W
0	RELAY4 / 1: ON 0:OFF	R/W

Example

Arduino

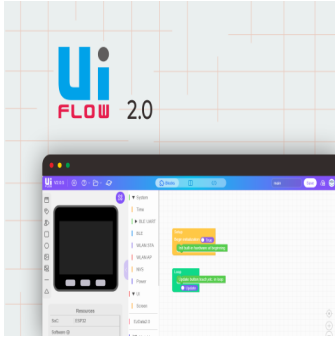
- [M5Unit-4RELAY - with M5ATOM](#)
- [M5Unit-4RELAY - with M5CORE](#)
- [M5Unit-4RELAY - with M5CORE2](#)
- [M5Unit-4RELAY - with M5STICKC](#)
- [M5Unit-4RELAY - with M5STICKC-PLUS](#)

UIFlow



UIFlow1.0 Unit 4relay Docs

How to use Unit 4relay and related API instructions in the UIFlow1.0



UIFlow2.0 Unit relay4 Docs

How to use Unit relay4 and related API instructions in the UIFlow2.0

| Video

- UIFlow2.0 4Relay Unit

