

IOT Relay User Manual

V1.3

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1 Product Overview

1.1 Overview

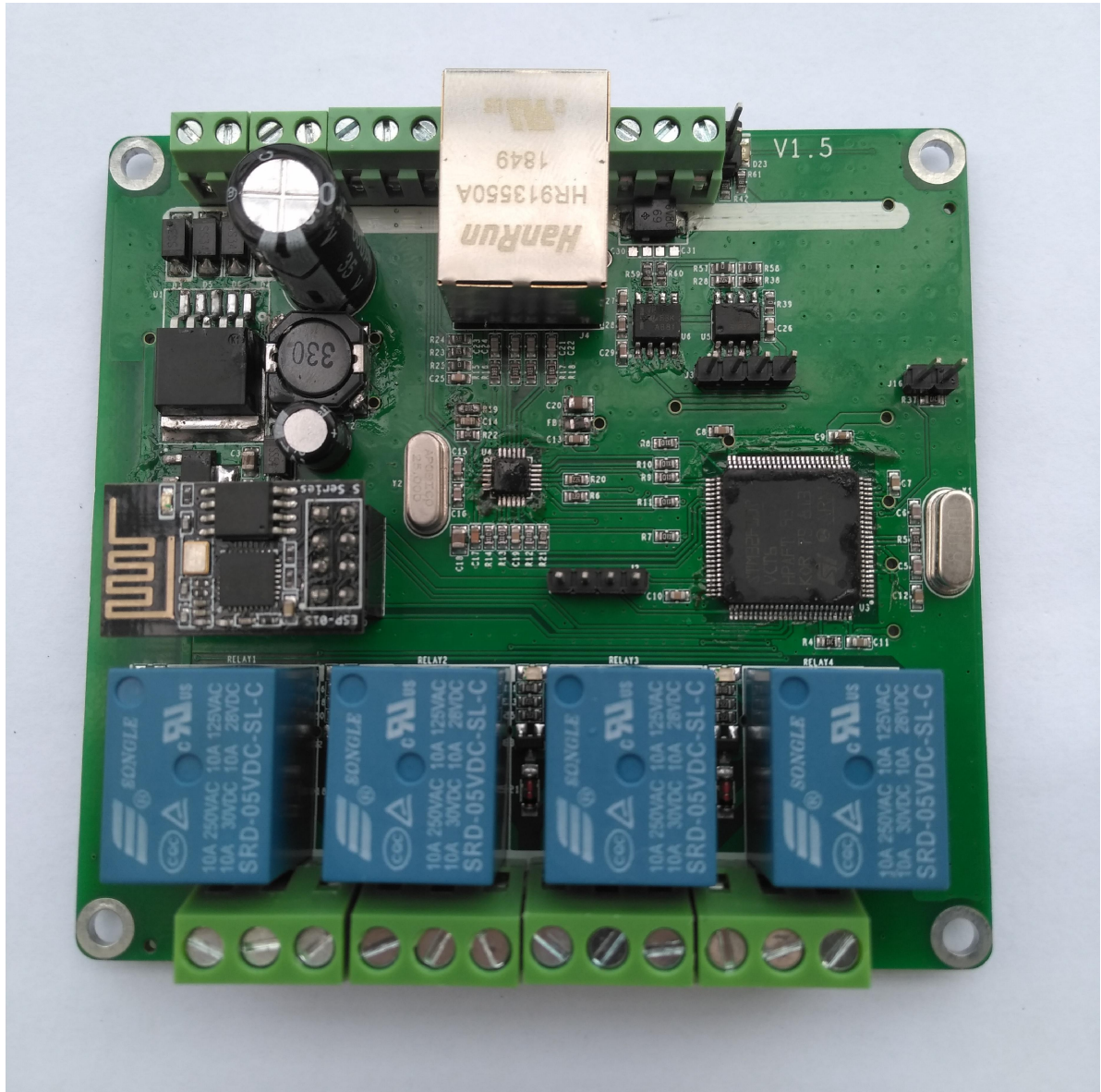
Support multiple channel relay, On/Off/Delay/Jog.
Support multiple interface RJ45/RS485/CAN/WIFI
10/100Mbps ethernet, Auto-MDIX,DHCP ip,Static IP
Local Button control
PC app config and control
WEB config and control
Android app config and control
Cloud remote config and control
8KB fifo command buffer
Support password.
WIFI smart config support

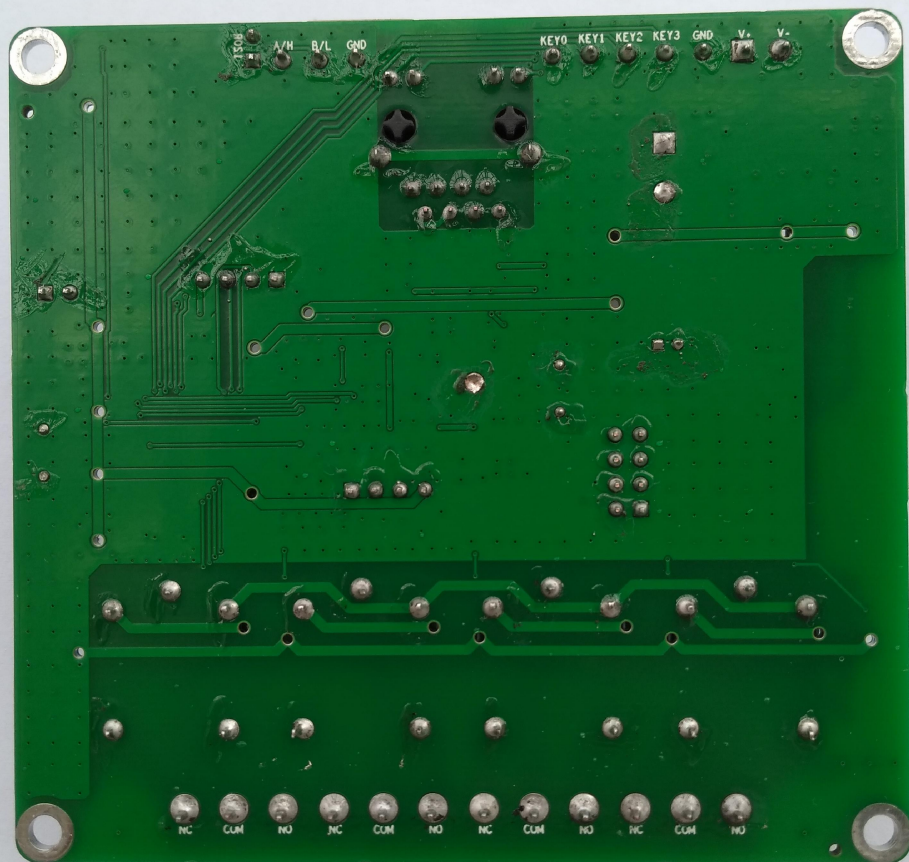
1.2 Technical Parameters

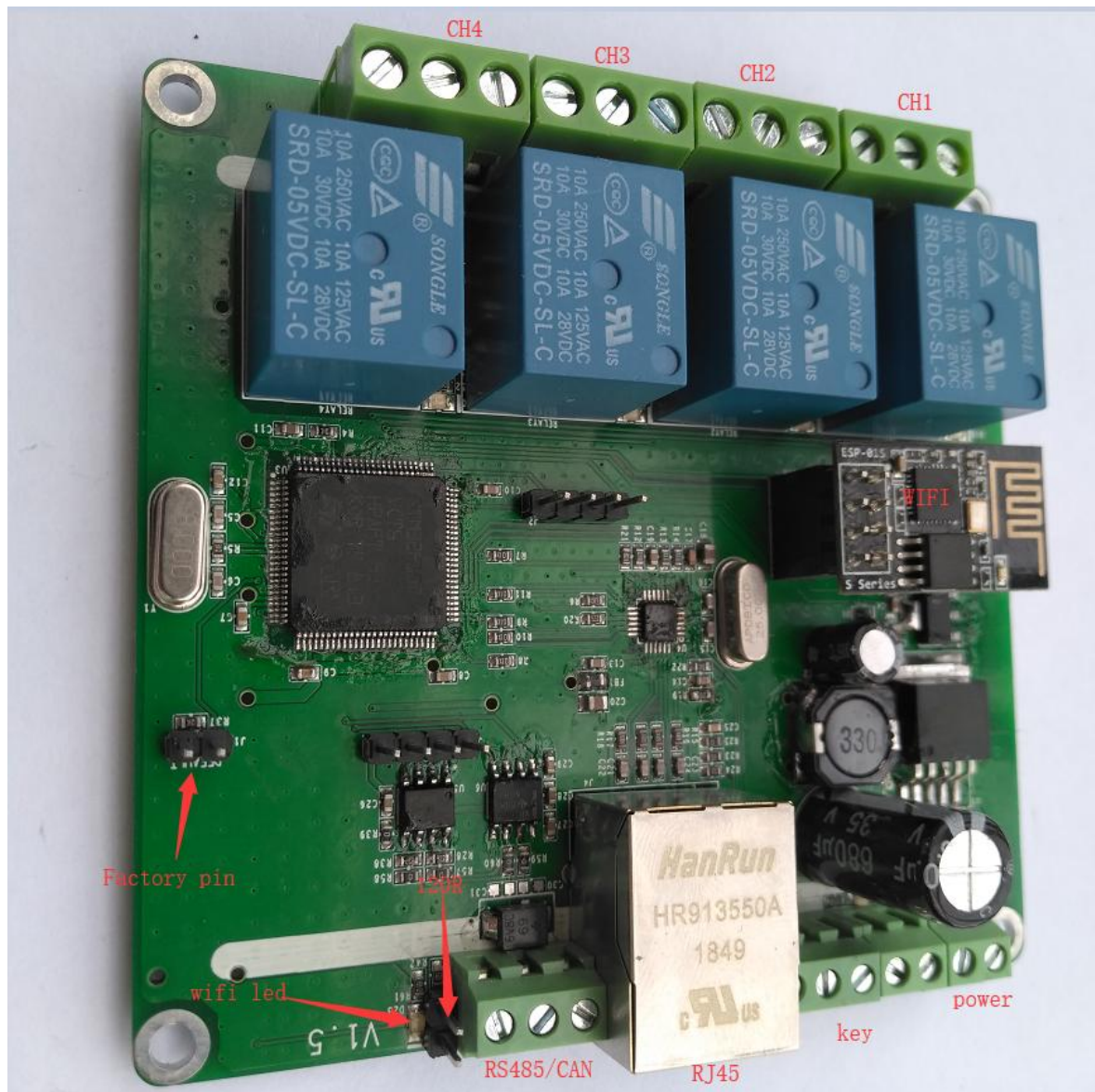
Network	Interface	RJ45/ RS485/CAN/WIFI
	Baudrate	100M/115200bps/125kbps/150Mbps
	Protocol	TCP server/client,UDP server/client,RS485,CAN,WIFI
Output	Relay Power	AC 250V/10A,DC 30V/10A
	Contacts	Normally Close Normally Open
	Delay	1~65535 seconds
	Jog	Pull in 0.5 seconds, automatically release
Working environment	Operating temperature	-40~+85°C
Power	Power Specifications	Power supply 5-40V
	Current	200mA@12V DC
	Power consumption	Less than 5W

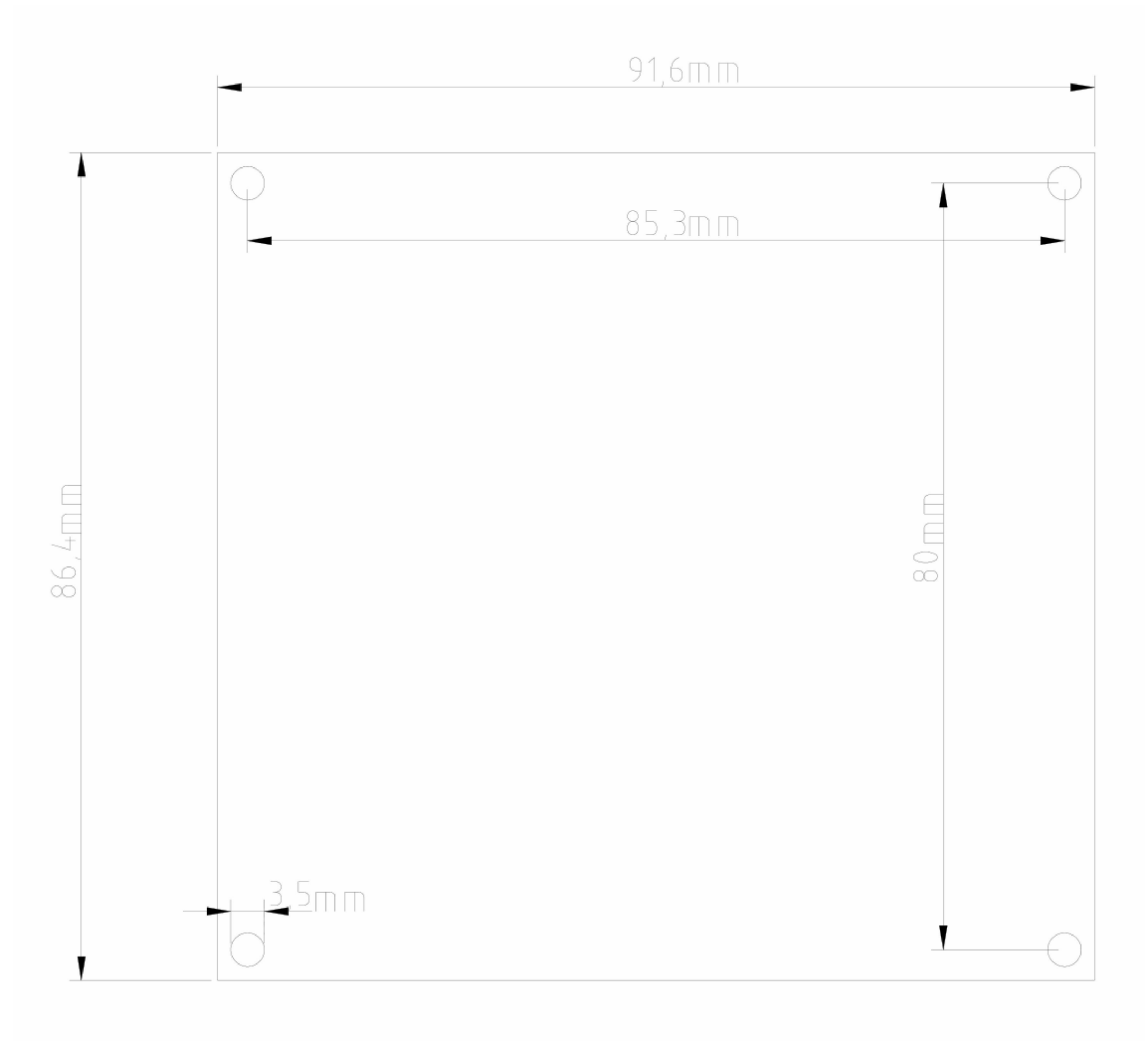
2 Size

2.1 4 Channel Relay









3 Interface Description

3.1 led

wifi led	on: connect wireless route success off: can not connect wireless router
CH1-CH8 led	on: relay on off: relay off

3.2 Relay contact

Each set of relay outputs has three terminals: normally open contact, common terminal and normally closed contact. The contact capacity is AC 250V10A, DC 30V10A, and the output of

controlling higher power requires external contactor.

- Normally open contact:

When the relay is released (or the module is powered off), the common terminal is disconnected from the normally open contact. After the suction is closed, the two contacts are closed.

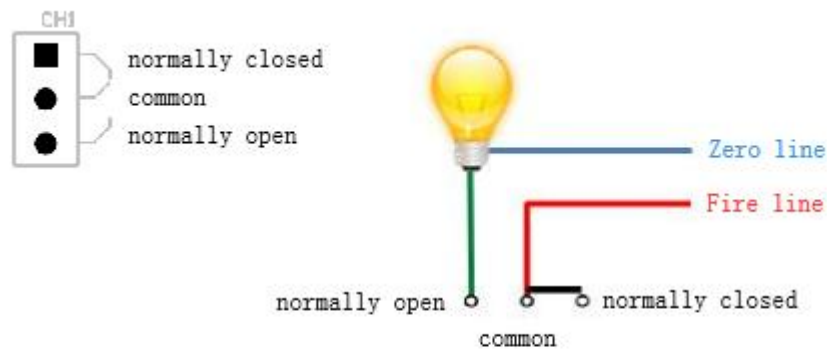
- Common:

Controlled power input

- Normally closed contact:

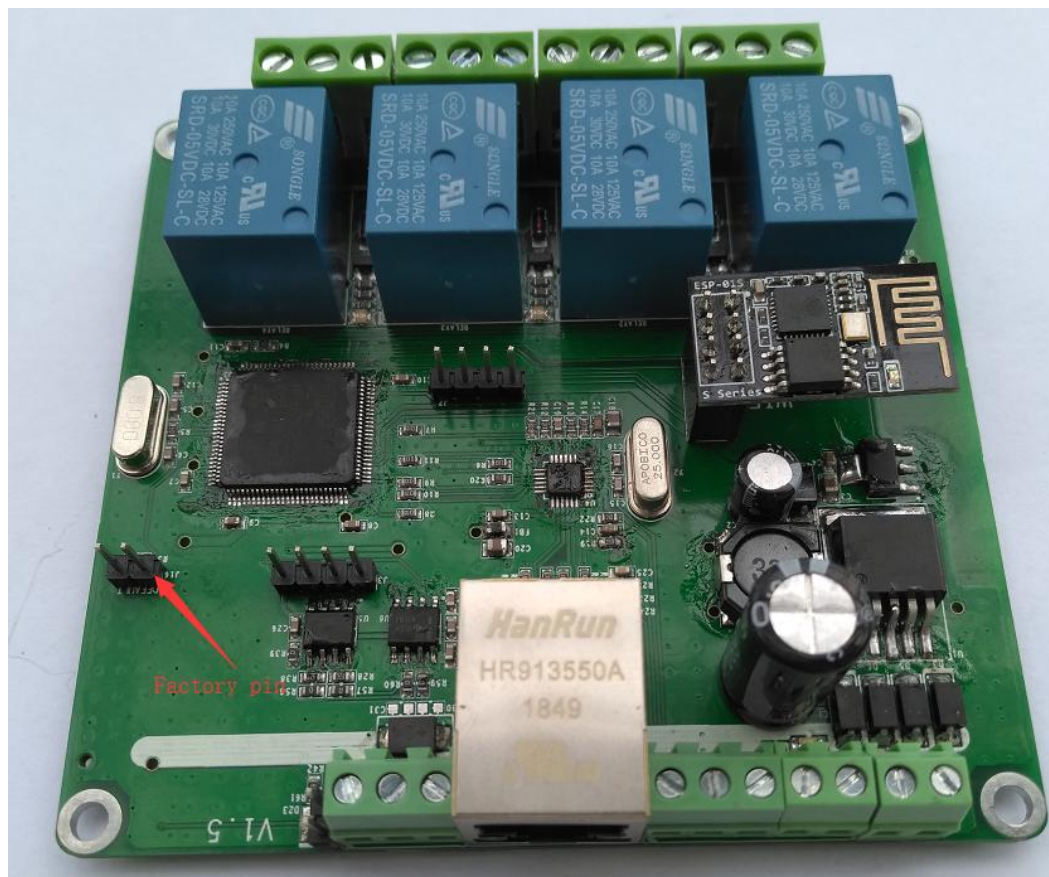
When the relay is released (or the module is powered down), the common and normally closed contacts are closed. After the pull-in, the two contacts are disconnected.

Connection example



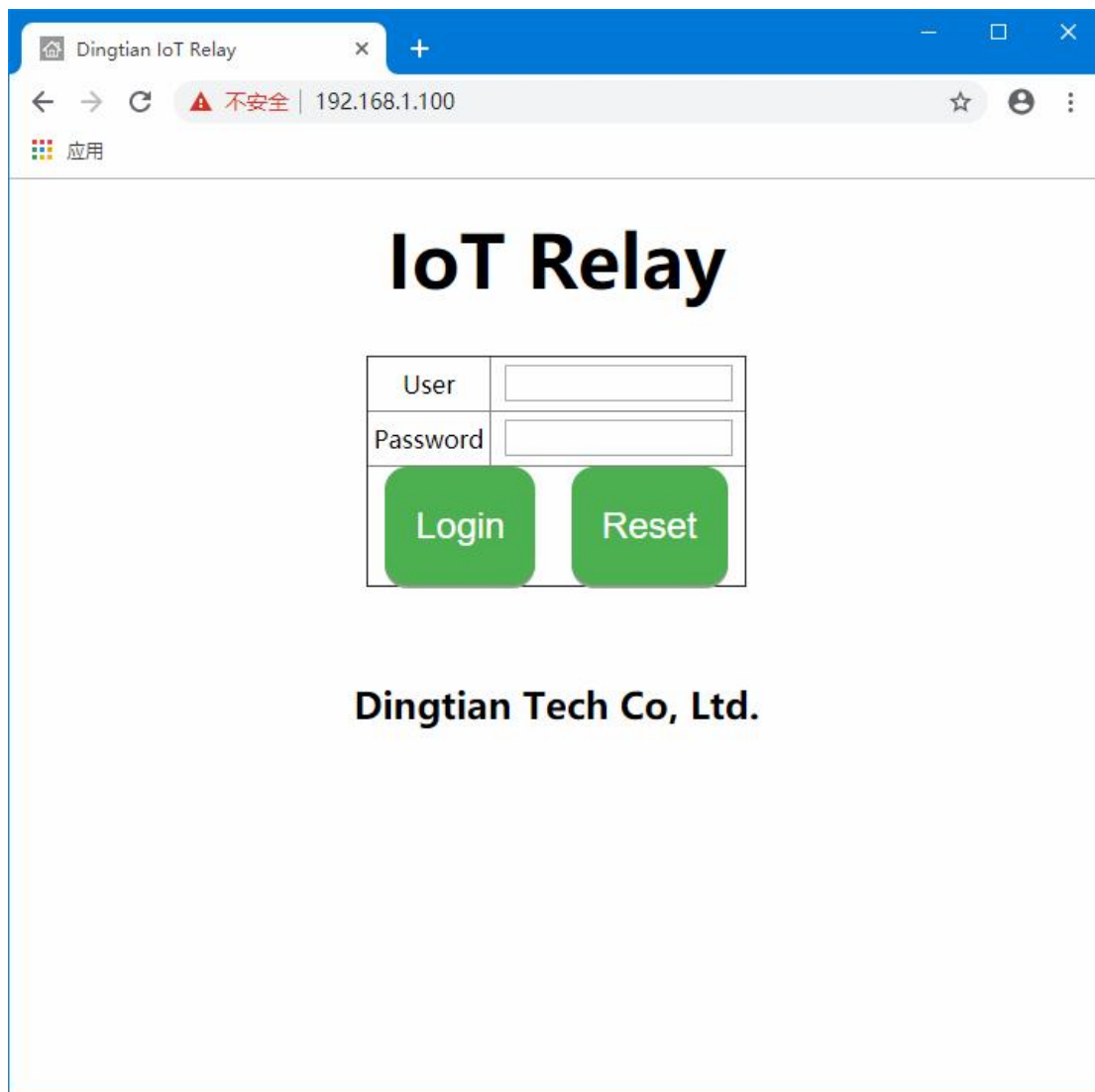
3.3 Reset to factory

- 1 Short the 2 pin headers under the Default assembly with a jumper cap



- 2 Turn off the power of the network module, and then power on the module again.
- 3 Pull out the Default jumper cap

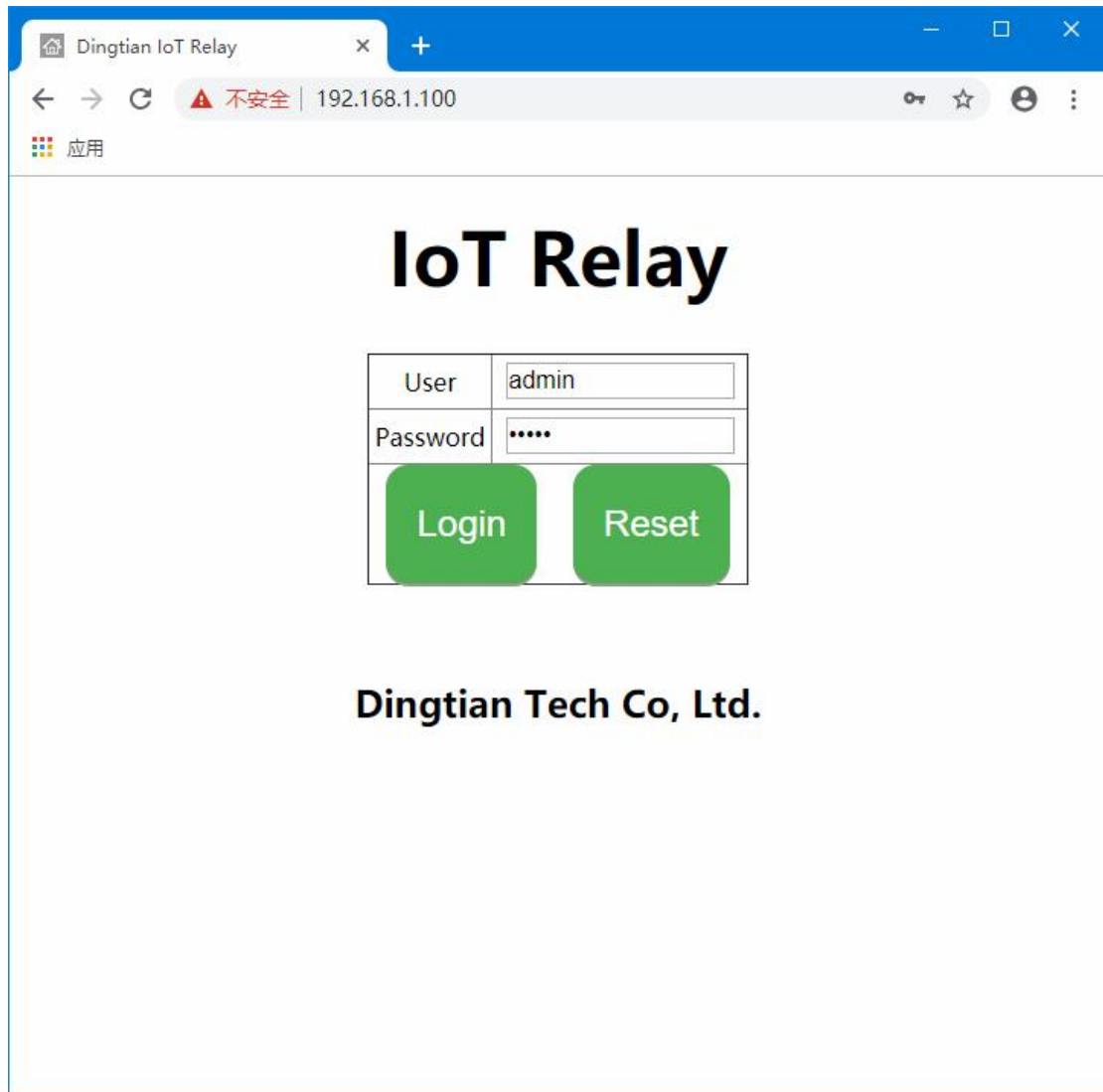
4 web



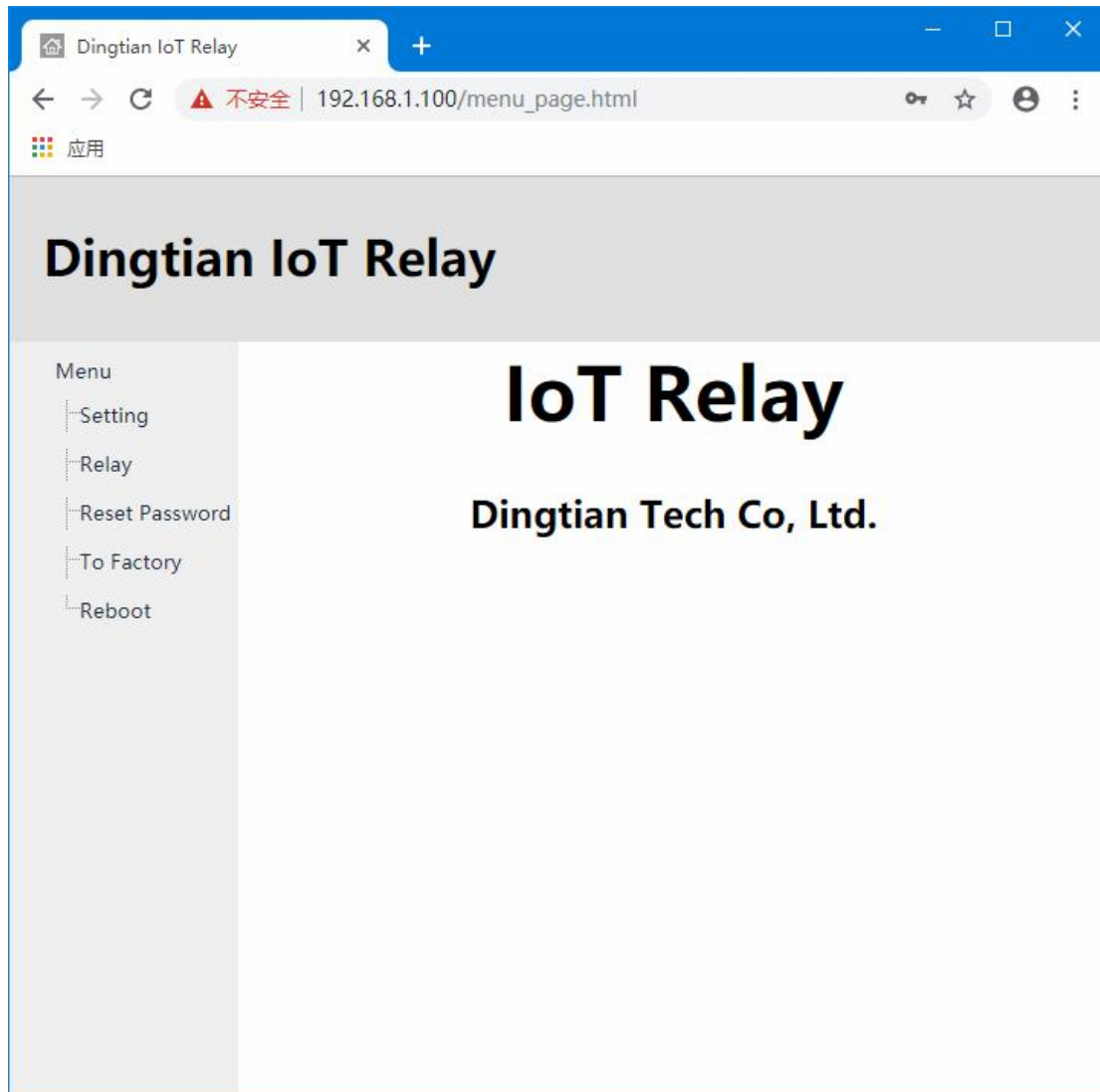
4.1 login

user:admin

password:admin



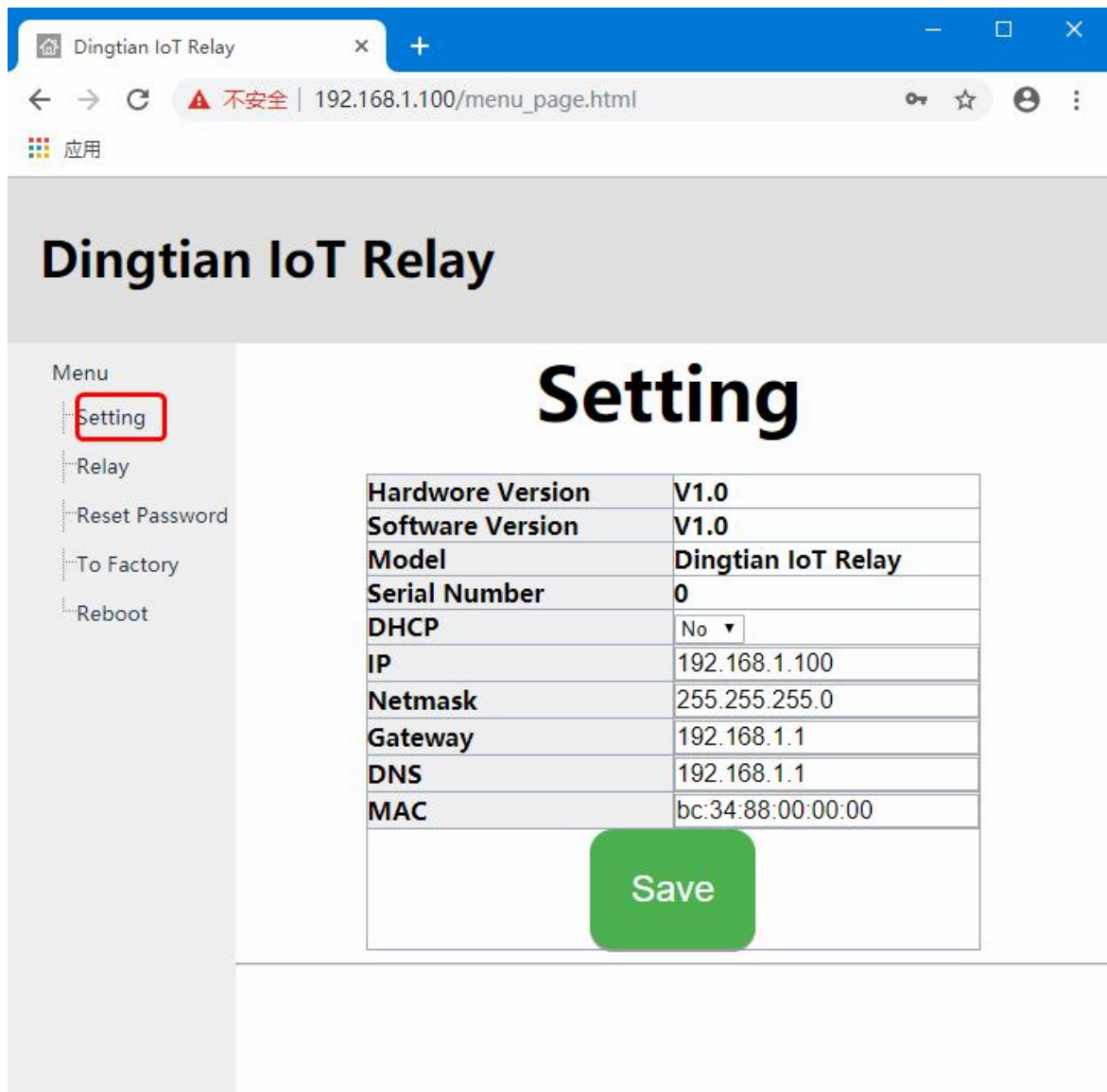
webcome page



4.2 setting network

setting page set network info

after click "Save" button,device will reboot



4.3 setting relay

relay page set relay control interface param,and test relay
after click "Save" button,device well reboot

Dingtian IoT Relay

Menu

Setting

Relay

Reset Password

To Factory

Reboot

Relay

Connect Info

RS485 Baudrate	115200bps ▾
RS485 Databits	8bit ▾
RS485 Stopbit	1bit ▾
RS485 Parity	None ▾
CAN Speed	125Kbps ▾
CAN ID	1
UDP Server	192.168.1.9
UDP Server Port	60001
TCP Server	192.168.1.9
TCP Server Port	60001
MQTT Server	192.168.1.9
MQTT Server Port	1883
Relay Password	0 4digital(0 no password)

Key Type

Self-lock ▾ Self-lock ▾ Self-lock ▾ Self-lock ▾

Other

Power failure recovery No ▾

Save

Relay Test

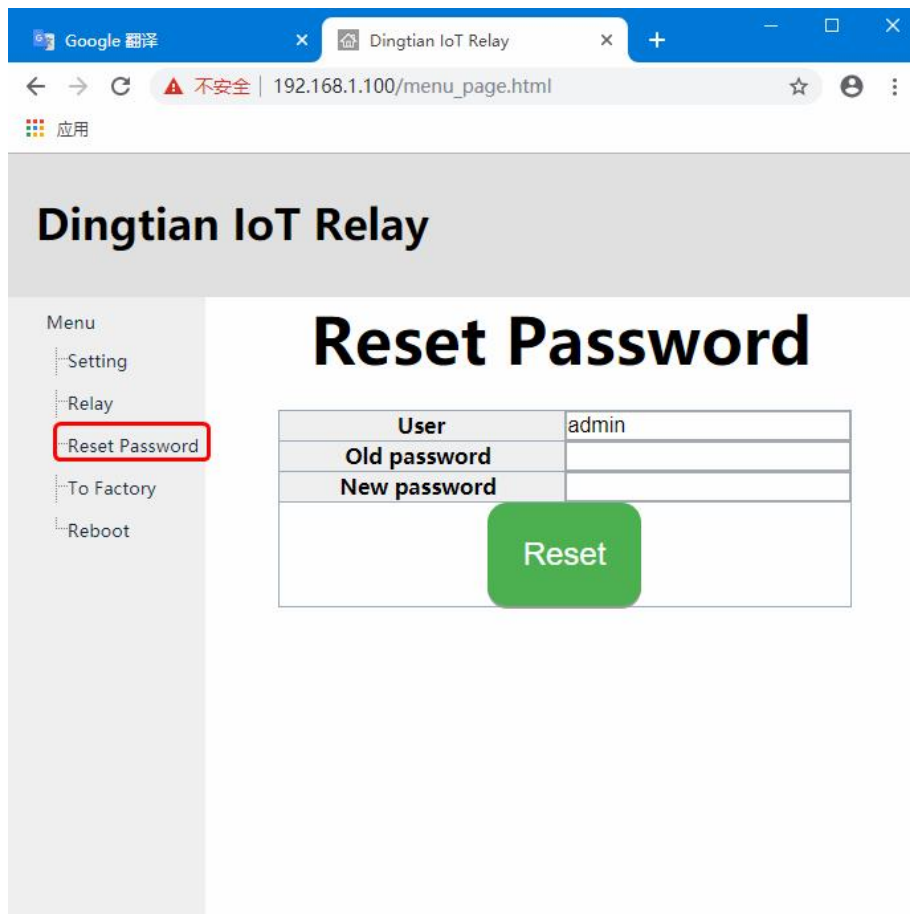
Relay1:Off

Relay2:Off

Relay3:Off

Relay4:Off

4.4 reset password

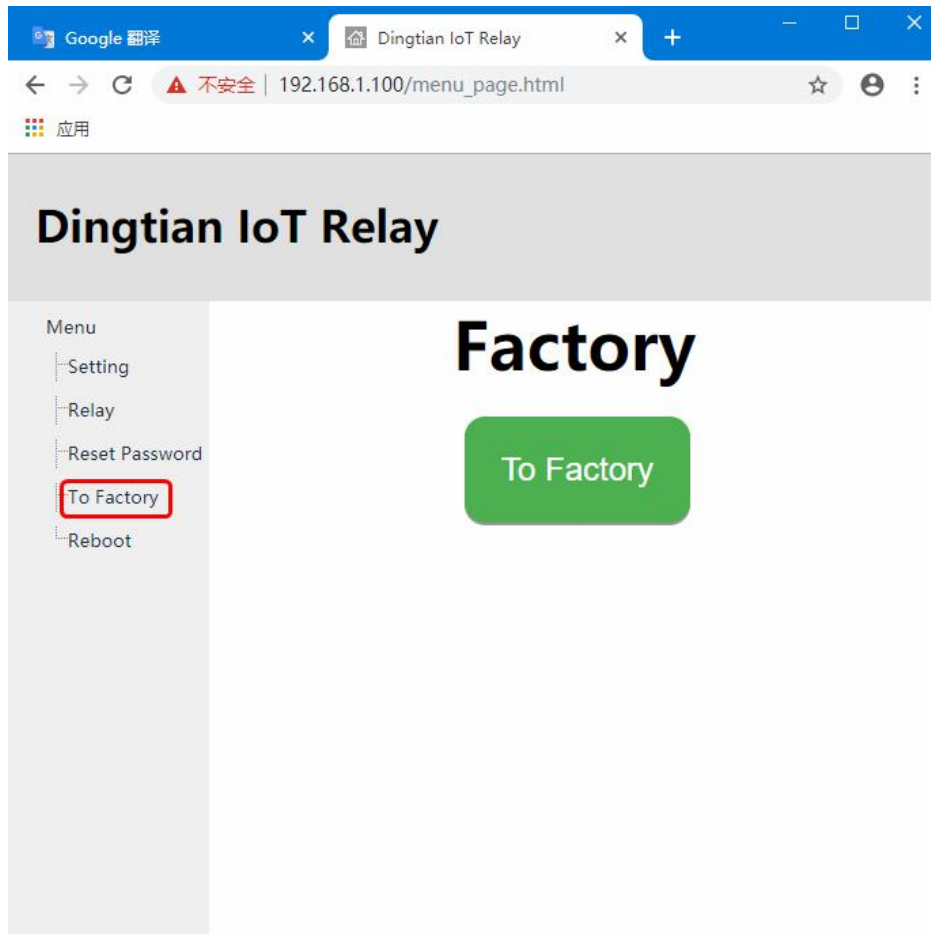


The screenshot shows a web browser window with the title "Dingtian IoT Relay". The address bar shows the URL "192.168.1.100/menu_page.html" with a warning icon and the text "不安全" (Not Safe). The page has a header "Dingtian IoT Relay" and a left sidebar menu. The menu items are "Menu", "Setting", "Relay", "Reset Password" (highlighted with a red box), "To Factory", and "Reboot". The main content area is titled "Reset Password" and contains a form with three input fields: "User" (pre-filled with "admin"), "Old password", and "New password". A green "Reset" button is located below the input fields.

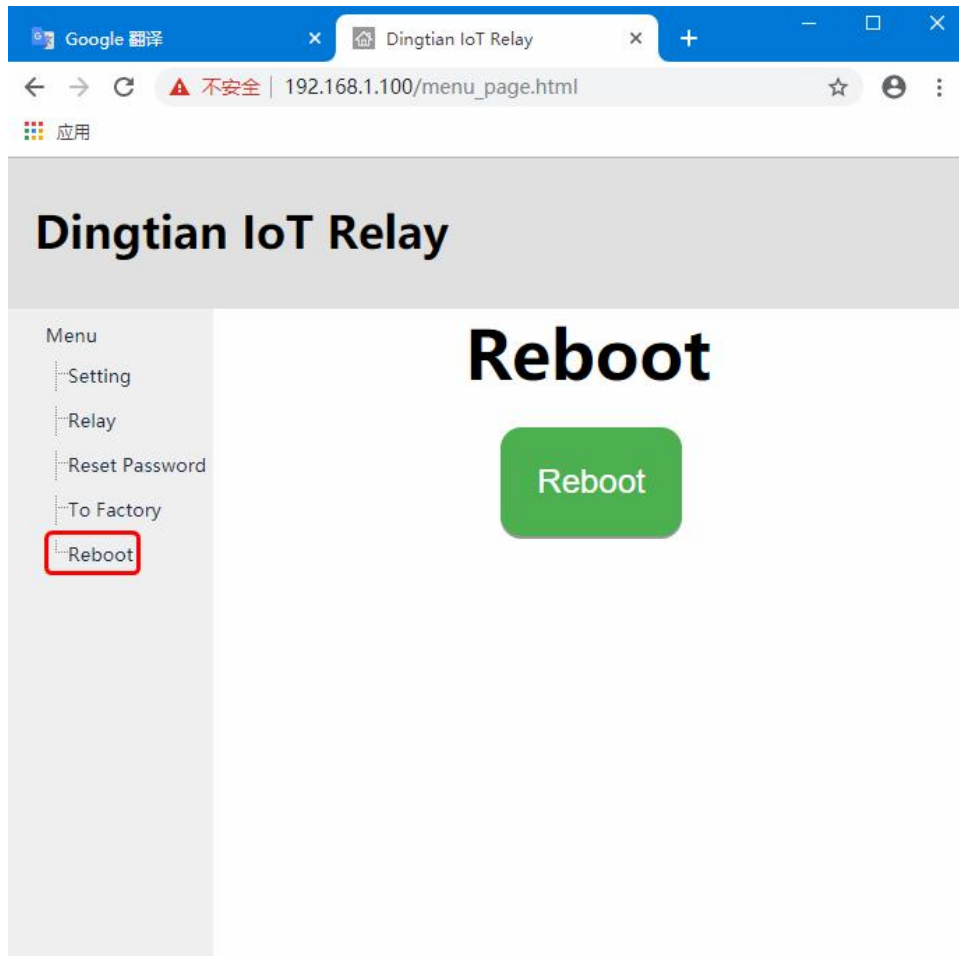
User	admin
Old password	
New password	

Reset

4.5 to factory



4.6 reboot



5 PC app

Notic: When the computer has multiple network cards,only one can be reserved.

Dingtian-Tech Relay

LanguageEnglish

When multiple devices,
device ip and computer ip
must be on the same network segment

COM1

Search Device

Version V1.3

Support: stephen@dingtian-tech.com

TestConfig

Commandread relay status

Relay password0 (4digital)

Relay1

Delay(Second)5 (max:65535)

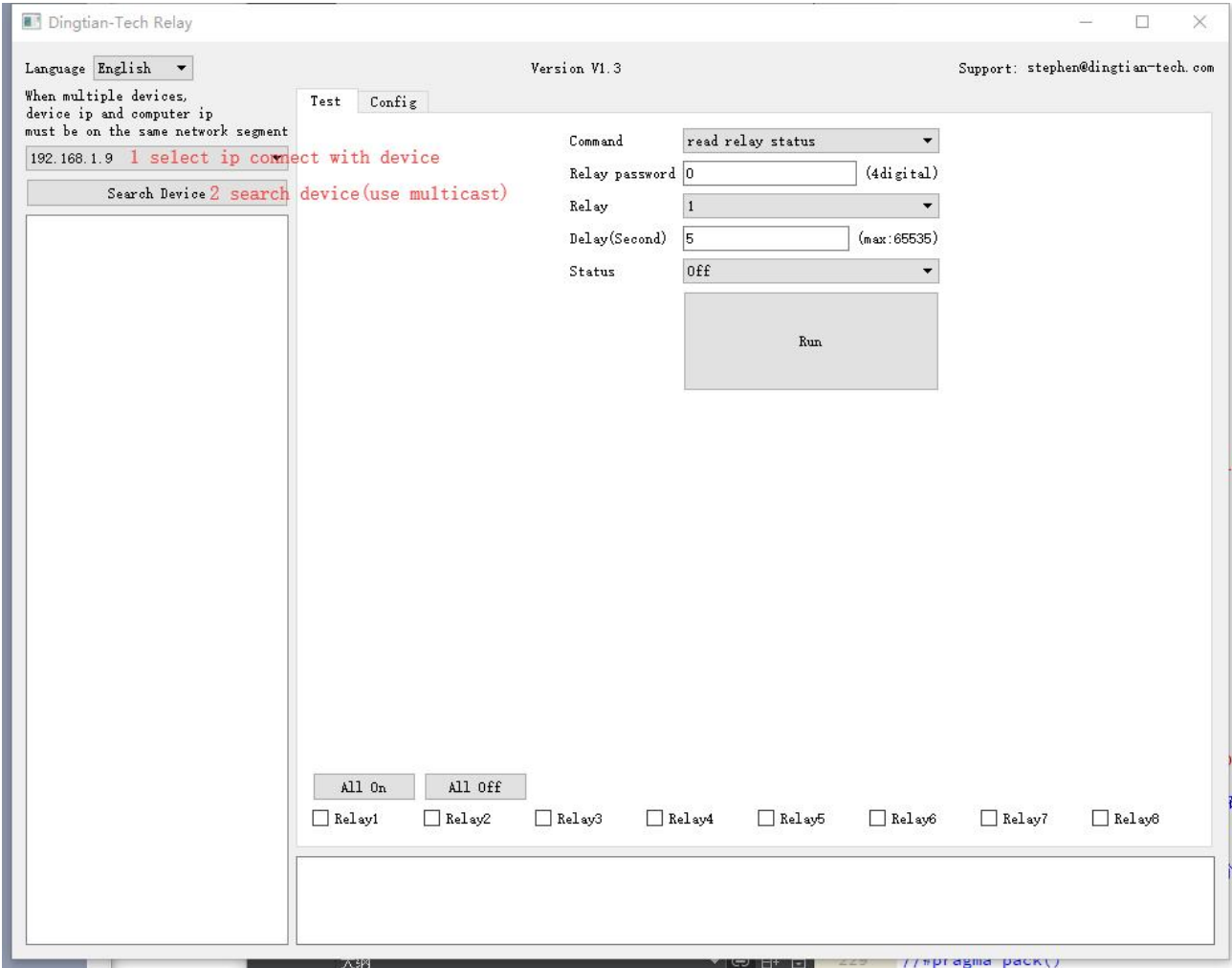
StatusOff

Run

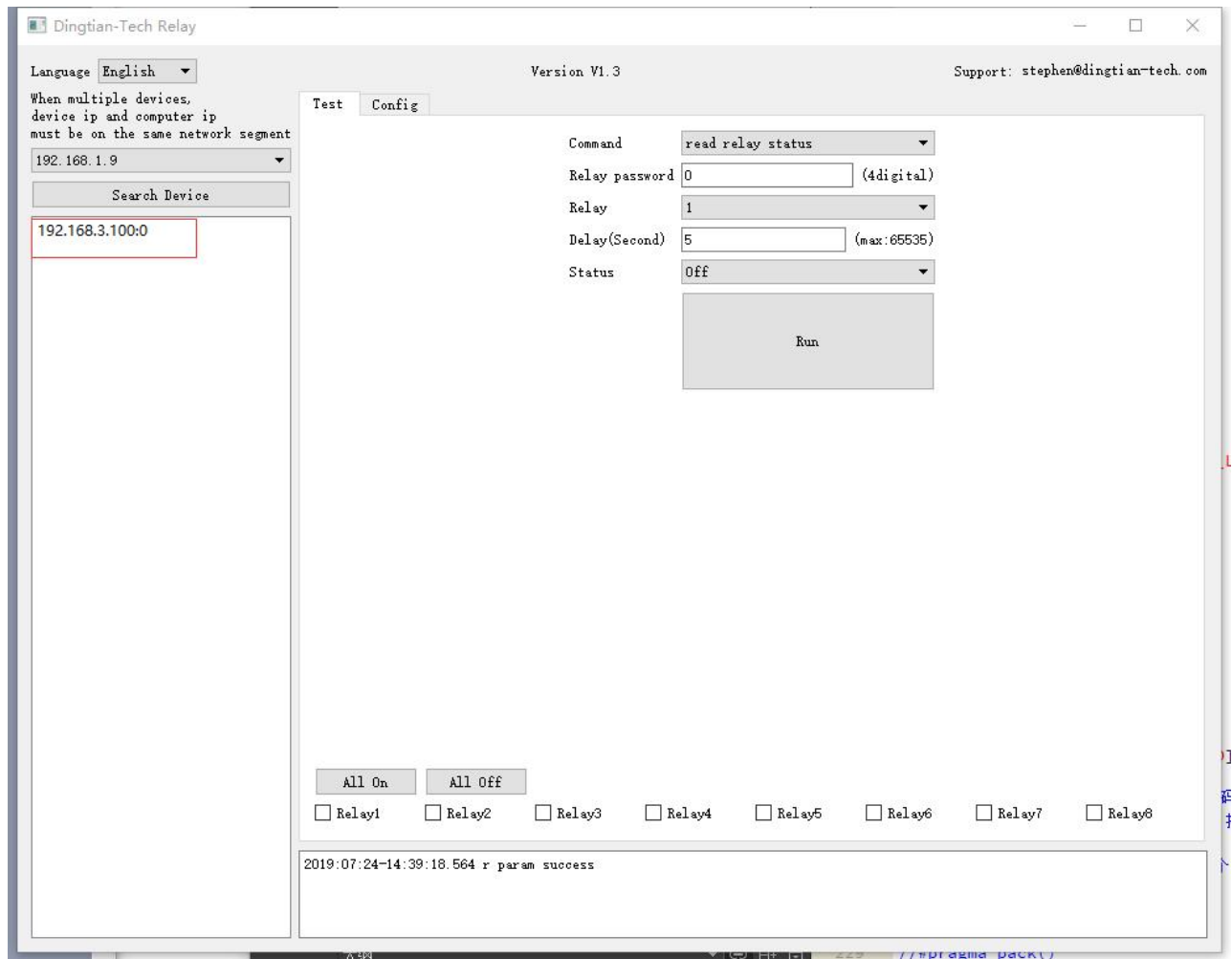
All OnAll Off

☐ Relay1☐ Relay2☐ Relay3☐ Relay4☐ Relay5☐ Relay6☐ Relay7☐ Relay8

5.1 search device

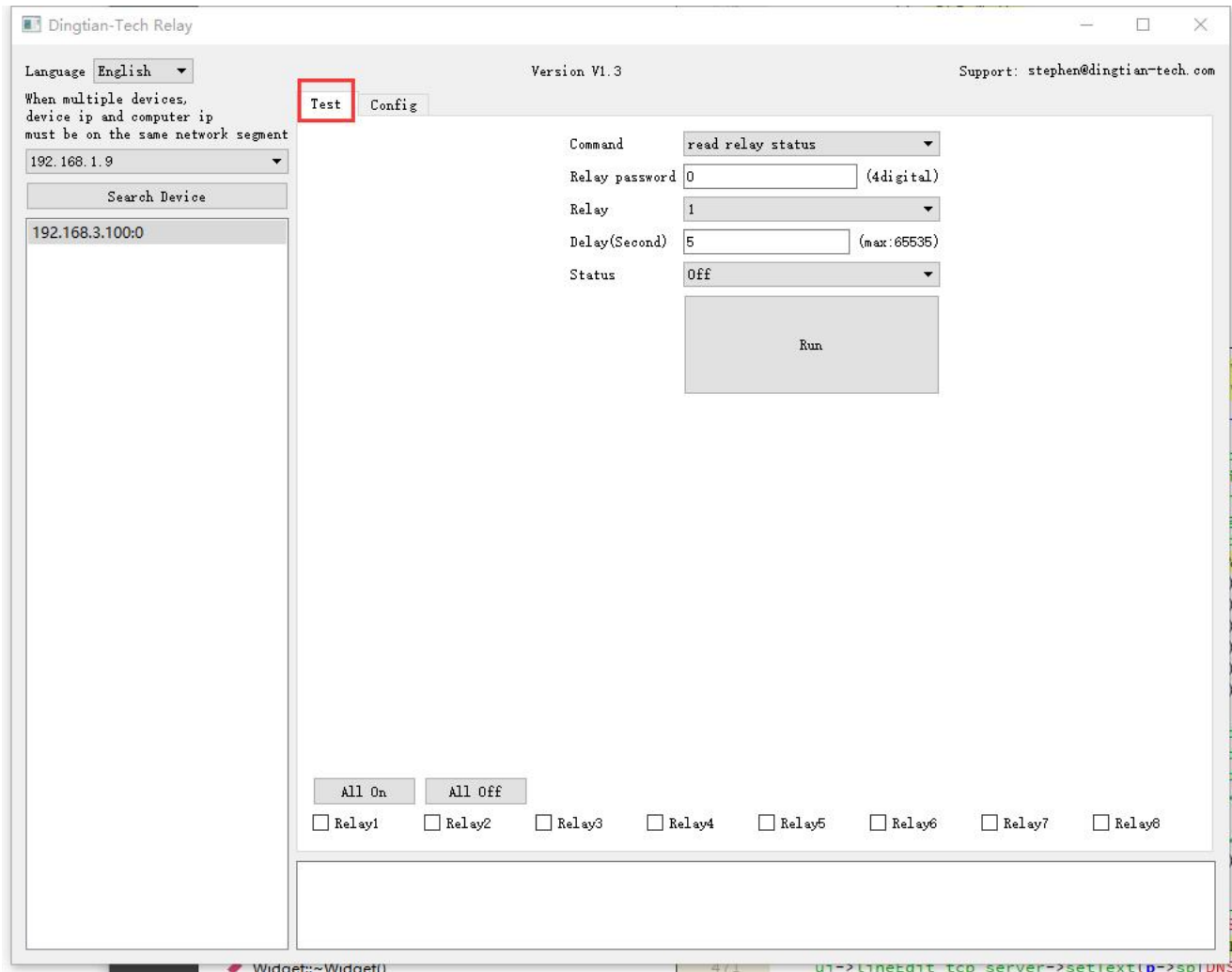


web can search a device ip is 192.168.3.100, but computer ip is 192.168.1.9



next, web can test relay,and config device

5.1 test relay



5.1 config device

Dingtian-Tech Relay

Language English

When multiple devices, device ip and computer ip must be on the same network segment

192.168.1.9

Search Device

192.168.3.100:0

TestConfig

Info

modelETH RELAYsw_verV1.0

sn0sw_verV1.0

Eth

DHCPNo

IP192.168.3.100Netmask255.255.255.0

Gateway192.168.3.1DNS192.168.3.1

MACbc:34:88:00:00:00

Web Password

admin

RS485

Baudrate115200bpsDatabits8bit

Stopbits1bitParityNone

CAN

Baudrate125Kbps

ID1

Server

UDP Serverwww.dingtian-tech.comTCP Server192.168.1.9MQTT Server192.168.1.9

UDP Port60001TCP Port60001MQTT Port1883

Relay

Relay Password0Power failure recoveryNo

Key Type

Key1Key2Key3Key4Key5Key6Key7Key8

Self-LockSelf-LockSelf-LockSelf-LockFollowFollowFollowFollow

Read Config

Write Config

Widaet::~Widaet()

4 / 1

01->LineEdit tcp server->setText(p->spiDNS