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RGB LED Matrix

DFR0462 Gravity Flexible 8x32 RGB LED Matrix

DFR0463 Gravity Flexible 16x16 RGB LED Matrix

DFR0471 32x16 RGB LED Matrix - 6mm pitch

DFR0472 32x32 RGB LED Matrix - 4mm pitch

DFR0464 Gravity I2C 16x2 Arduino LCD with RGB Backlight Display

DFR0499 64x64 RGB LED Matrix - 3mm pitch

DFR0506 7" HDMI Display with Capacitive Touchscreen

DFR0555,DF0556,DFR0557 Gravity I2C LCD1602 Arduino LCD Display Module

DFR0529 2.2 inches TFT LCD Display V1.0 (SPI Interface)

DFR0605 Gravity: Digital RGB LED Module

FIT0352 Digital RGB LED Weatherproof Strip 60LED m*3m

DFR0645-G DFR0645-R 4-Digital LED Segment Display Module

SKU DFR0646-G DFR0646-R 8-Digital LED Segment Display Module

DFR0597 7x71 Flexible RGB LED Matrix

DFR0231 NFC Module for Arduino

TEL0005 APC220 Radio Data Module

TEL0023 BLUETOOTH BEE

TEL0026 DF-BluetoothV3 Bluetooth module

TEL0037 Wireless Programming Module For Arduino

TEL0044 DFRduino GPS Shield-LEA-5H

TEL0047 WiFi Shield V2.1 For Arduino

TEL0051 GPS GPRS GSM Module V2.0

TEL0067 WiFi Bee V1.0

TEL0073 BLE-Link

TEL0075 RF Shield 315MHz

TEL0078 WiFi Shield V3 PCB Antenna

TEL0079 WiFi Shield V3 RPSMA

TEL0084 BLEmicro

TEL0086 DF-Beacon EVB

TEL0087 USBBLE-LINK Bluno Wireless Programming Adapter

TEL0080 UHF RFID MODULE-USB

TEL0081 UHF RFID MODULE-RS485

TEL0082 UHF RFID MODULE-UART

TEL0083-A GPS Receiver for Arduino Model A

TEL0092 WiFi Bee-ESP8266 Wireless module

TEL0094 GPS Module With Enclosure

TEL0097 SIM808 GPS GPRS GSM Shield

DFR0342 W5500 Ethernet with POE Mainboard

DFR0015 Xbee Shield For Arduino no Xbee

TEL0107 WiFiBee-MT7681 Arduino WiFi Wireless Programming

TEL0089 SIM800C GSM GPRS Shield V2.0

TEL0112 Gravity 315MHZ RF Receiver Module

TEL0113 Gravity UART A6 GSM & GPRS Module

TEL0118 Gravity UART OBLOQ IoT Module

TEL0120 DFRobot BLE4.1 Module

TEL0002 Bluetooth Adapter

TEL0108 Bluetooth Audio Receiver Module

TEL0124 SIM7600CE-T 4G(LTE) Shield V1.0

DFR0505 SIM7000C Arduino NB-IoT LTE GPRS Expansion Shield

DFR0013 IIC to GPIO Shield V2.0

DFR0057 Sensor Motor Drive Board - Version 2.2

DFR0062 Wiichuck Adapter

DFR0233 RS485 Sensor Node V1.0

DFR0259 Arduino RS485 Shield

DFR0370 CAN-BUS Shield V2

DFR0627 IIC to dual UART module

TEL0070 Multi USB RS232 RS485 TTL Converter

DFR0064 386AMP audio amplifier Module

DFR0273 Speech Synthesis Shield

DFR0299 DFPlayer Mini

TOY0008 DFRduino Player MP3

SEN0197 Voice Recorder-SD1820

DFR0420 Audio Shield For DFRduino M0

DFR0534 Voice Module

SD2403 Real time clock Module SKU TOY0020

TOY0021 SD2405 Real time clock Module

DFR0151 Gravity I2C DS1307 RTC Module

DFR0469 Gravity I2C SD2405 RTC Module

DFR0316 MCP3204 18-Bit ADC-4 Channel with Programmable Gain Amplifier

DFR0552 Gravity 12-Bit I2C DAC Module

DFR0553 Gravity I2C ADS1115 16-Bit ADC Module Arduino & Raspberry Pi Compatible

DFR0117 Gravity I2C EEPROM Data Storage Module

DFR0071 SD Module

DFR0057 Sensor Motor Drive Board - Version 2.2

DFR0360 XSP - Arduino Programmer

DFR0411 Gravity 130 DC Motor

DFR0438 Bright LED Module

DFR0439 LED String Lights Colorful

DFR0440 The Micro Vibration Module

DFR0448 LED String Lights Warm White

DFR0503 Embedded Thermal Printer - TTL Serial

DFR0504 Gravity Analog Signal Isolator

DFR0520 Dual Digital Pot 100K

DFR0565 Gravity Digital Signal Isolator

DFR0563 Gravity 3.7V Li Battery Fuel Gauge

DFR0576 Gravity Digital 1-to-8 I2C Multiplexer

DFR0117 Gravity I2C EEPROM Data Storage Module

DRI0001 Arduino Motor Shield L293

DRI0002 MD1.3 2A Dual Motor Controller

DRI0009 Arduino Motor Shield L298N

DRI0021 Veyron 2x25A Brush DC Motor Driver

DRI0017 2A Motor Shield For Arduino Twin

DRI0018 DC Motor Driver 2x15A Lite

FIT0450 Micro DC Motor with Encoder-SJ01

FIT0458 Micro DC Motor with Encoder-SJ02

DFR0399 DC Micro Metal Gear Motor 75 1w Driver

DRI0039 Quad Motor Driver Shield for Arduino

DRI0040 Dual 1.5A Motor Driver - HR8833

DRI0044 2x1.2A DC Motor Driver TB6612FNG

DFR0513 PPM 2x3A DC Motor Driver

DFR0523 Gravity Digital Peristaltic Pump

DRI0027 Digital Servo Shield for Arduino

DRI0029 Veyron Servo Driver 24-Channel

SER0044 DSS-M15S 270° 15KG DF Metal Servo with Analog Feedback

DRI0023 Stepper Motor Shield For Arduino DRV8825

DRI0035 TMC260 Stepper Motor Driver Shield

DFR0105 Power Shield

DFR0205 Power Module

DFR0457 Gravity MOSFET Power Controller

DFR0564 USB Charger for 7.4V LiPo Battery

DFR0535 Solar Power Manager

DFR0559 Sunflower Solar Power Manager 5V

DFR0559 Solar Power Manager 5V

DFR0580 Solar Power Manager For 12V Lead-Acid Battery

DFR0222 X-Board Relay

DFR0017 Relay Module Arduino Compatible

DFR0289 RLY-8-POE Relay Controller

DFR0290 RLY-8-RS485 8 Relay Controller

DFR0144 Relay Shield for Arduino V2.1

DFR0473 Gravity Digital Relay Module Arduino & Raspberry Pi Compatible

KIT0003 EcoDuino - An Auto Plant Kit

KIT0071 MiniQ Discovery Kit

KIT0098 Breadboard Plugin Components Pack

SKU DFR0748 Kitty Flower
- Introduction

Specification

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- RLY-8-POE Relay Controller DFR0289



Introduction

With ethernet relay, IOT has become so easy. RLY-8-POE-USB is a **POE&USB controlled 8 channel relay controller** based on STM32. With this module users can be able to do remote control/switching power supply centralized management, the purpose of this product can be directly by net POE power supply switch power supply is connected to the Internet, so you just need to a cable link equipment, suitable for: home decoration, hotel, shopping mall management, Internet cafes, karaoke time, daily office, stores monitoring, networking, industrial control equipment, test equipment, power control, unattended, underground pipes, mining equipment, ships, machine room, street lamp management, intelligent management and centralized management.

RLY-8-POE-USB is an open communication protocol of network relay control products (wide area network operation on the router need to add port mapping) which can use all kinds of network tools to directly establish TCP connection and control. (DFRobot provides you with a set of control tools as a reference.)

This product supports USB function, Plug the USB directly into the computer. The control and parameter setting can be controlled by using binary communication protocol through USB. Of course, you can also use the other controller directly control the RLY-8 through USB.

This product can be achieved through a wide area network or LAN control relay module. So as to realize the remote control electric appliance switch to achieve the purpose of centralized management of power supply.

This product can be used in ordinary power adapter as power supply, but also through the POE as power supply switch to direct power and networking. So you can only need to connect a cable connected to the device, you can achieve power supply and network control functions.

	PoE compatibility issue: We have passed the test on PoE Switches as
ONV POE31004P	
Tenda TEFI008P However, as reported by our customer, the PoE feature failed on these PoE switches:	
TP-LINK TL-SG3424P 24-Port Gigabit L2 Managed PoE Switch	
100-POE4 Industrial Midspan Power Injector	

Specification

- Operating Voltage: DC:7-23V
 - Relay number: 8
 - Data Communication: TCP, USB-UART
 - Network Configuration: support for DHCP static IP
 - Power Consumption: Max 3.5W
 - Maximum Control: 277VAC-10A/125VAC-12A
 - Control Mode: Based on the IP address, the network sends the TCP data packets / through the USB-UART port to control the on-board relay switch.
 - Factory Settings: IP:192.168.1.10, port number: 2000
 - Weight: 530g
 - Size: 90.10mm * 144.8mm *40mm

Tutorial

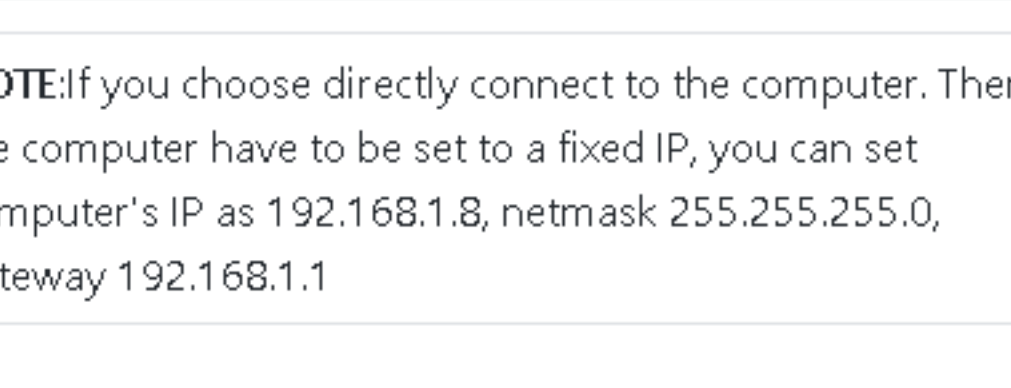
This tutorial will teach you how to configure and use RLY-8-POE Relay Controller.

Requirements

- Hardware**
 - POE Relay x1
 - PC X1
 - USB to UART or ethernet cable
 - POE Ethernet switch or ordinary Ethernet switch
 - Software**
 - update computer software & usb driver [Click to Download](#)

Connection Diagram

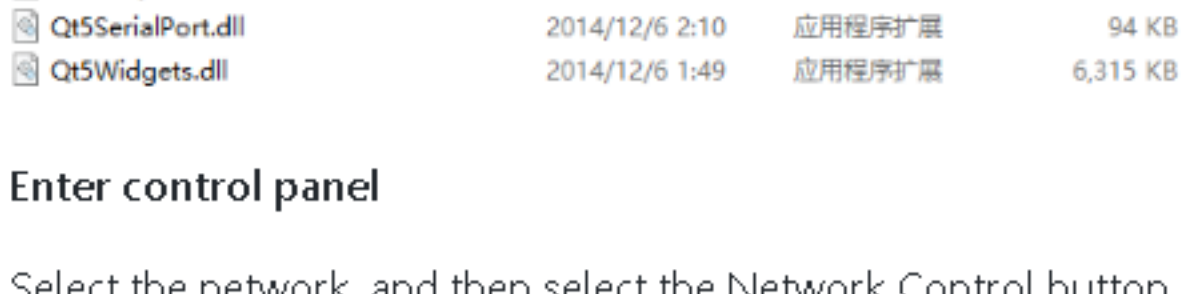
We have two ways for the connection, one is through the cable, the other is through the USB, of course, you can use them the same time.



NOTE: If you choose directly connect to the computer. Then the computer have to be set to a fixed IP, you can set computer's IP as 192.168.1.8, netmask 255.255.255.0, gateway 192.168.1.1

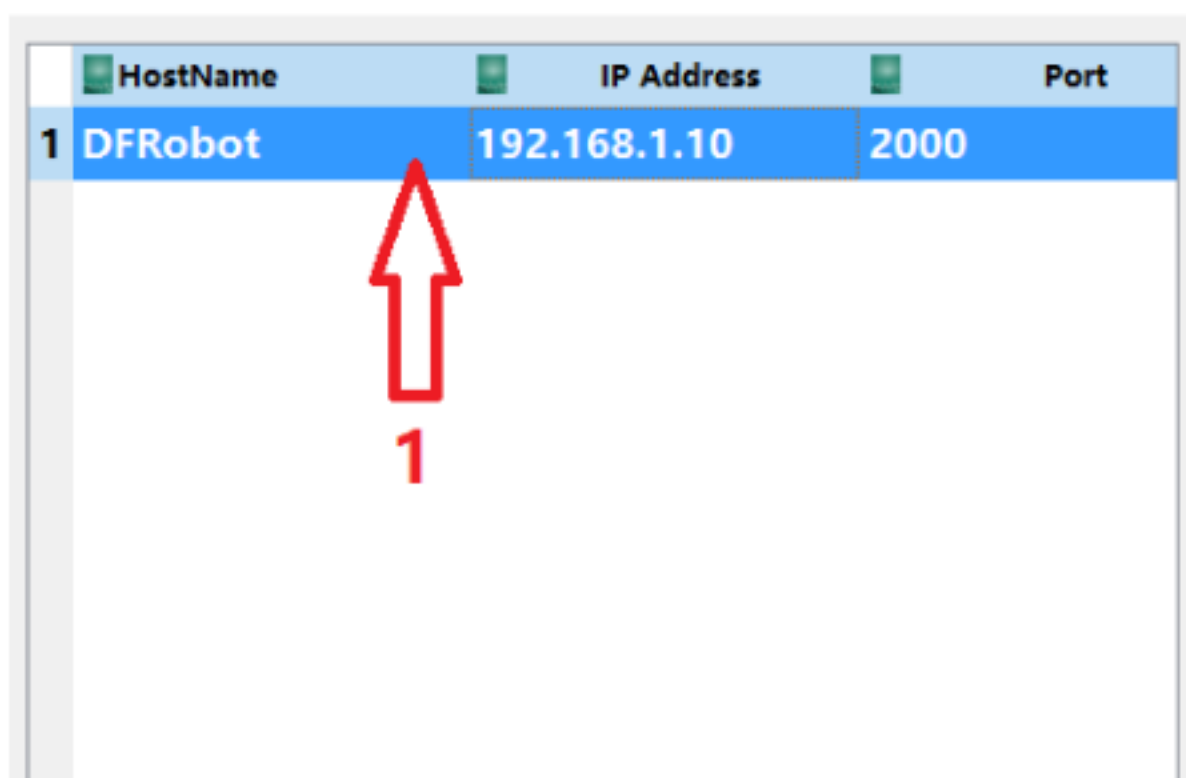
PC Control POE Relay

Open the Software



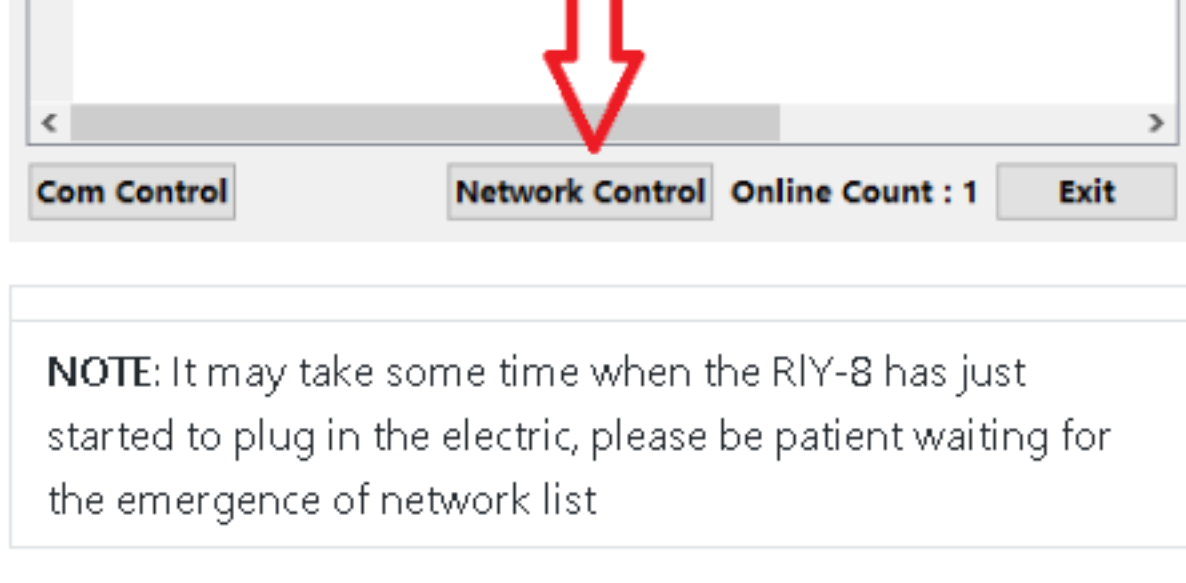
Enter control panel

Select the network, and then select the Network Control button, enter the network control interface



NOTE: It may take some time when the RLY-8 has just started to plug in the electric, please be patient waiting for the emergence of network list

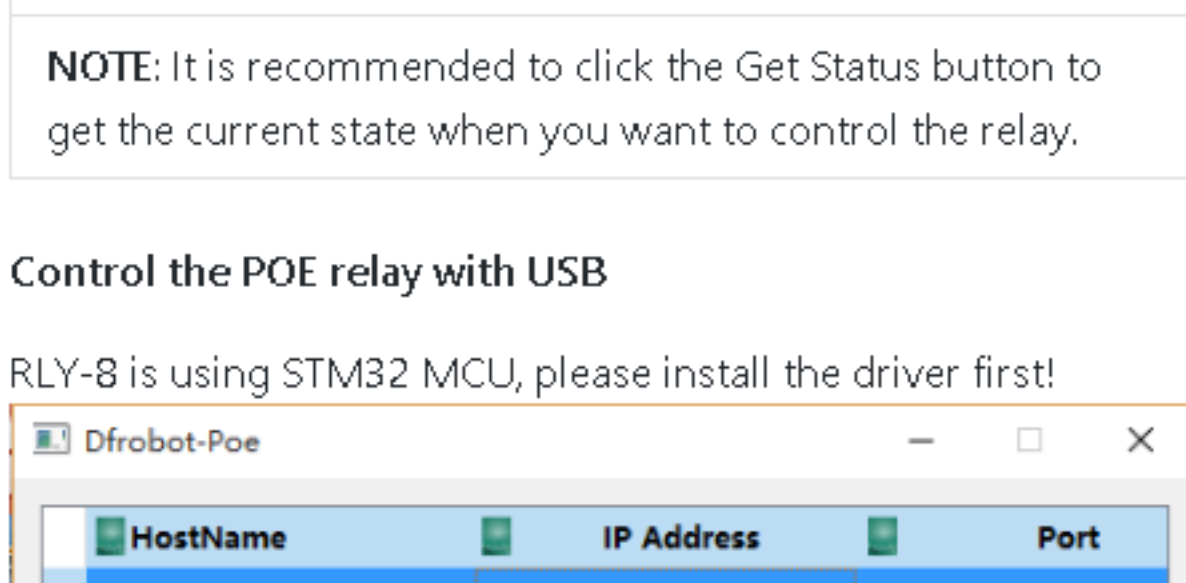
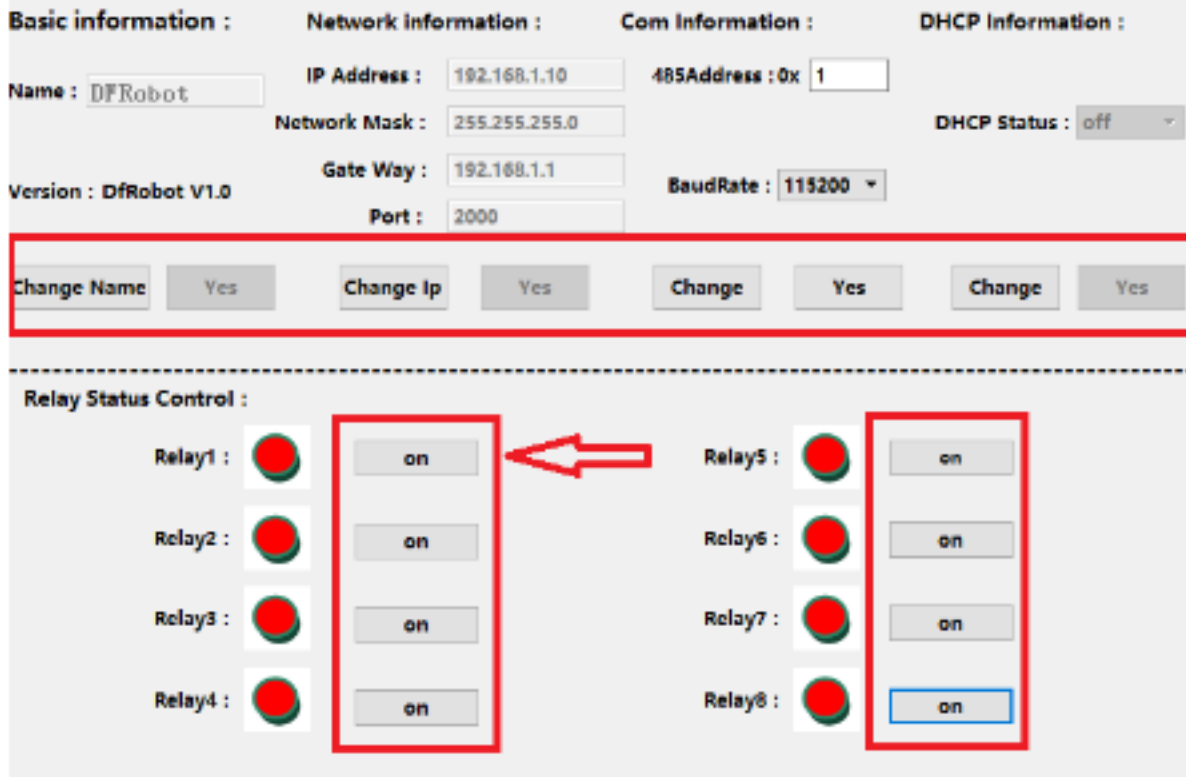
Control the POE relay with network



NOTE: It is recommended to click the Get Status button to get the current state when you want to control the relay.

Control the POE relay with USB

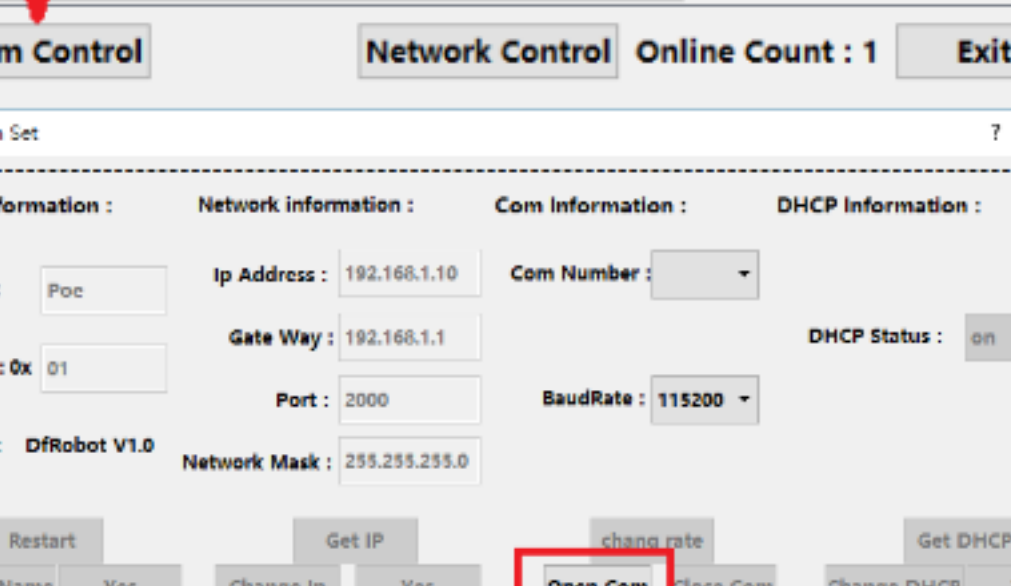
RLY-8 is using STM32 MCU, please install the driver first!



Reset and Restore Factory Settings

On the device has a Reset button, Keep holding, when the lights began to flash, Has been bright, said the resumption of factory success.

Result



FAQ

There is no question about this product yet, if you have any problem or suggestions, you are welcome to email to us or post on our Forum! Thank you!

For any questions/advice/cool ideas to share, please visit the [DFRobot Forum](#) or email to techsupport@dfrobot.com

More

- PC Software
 - USB/RS485 and JSON Communication protocol
 - Relay-8 Github

 Get **8 Channel Ethernet Relay Controller** from DFRobot Store or **DFRobot Distributor**.

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