

# RLY-8-POE Relay Controller DFR0289



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## 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.



### 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

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Hardware POE Relay x1 PC X1 USB to UART or ethernet cable POE Ethernet switch or ordinary Ethernet switch Software updata computer software & usb driver Click to Download https://github.com/nxcosa/RLY-8-Relay-Controller

#### **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**

	codecs	2015/4/21 10:02	文件夹	
	designer	2015/4/21 9:59	文件夹	
	imageformats	2015/4/21 10:03	文件夹	
	platforms	2015/4/21 10:37	文件夹	
	sqldrivers	2015/4/21 10:00	文件夹	
	Enternet_Com_Control.exe	20 5/11/4 10:07	应用程序	725 KB
	icudt53.dll	2014/10/16 18:34	应用程序扩展	21,061 KB
4	icuin53.dll	2014/10/16 18:34	应用程序扩展	3,671 KB
3	icuuc53.dll	2014/10/16 18:33	应用程序扩展	2,045 KB
9	libgcc_s_dw2-1.dll	2014/10/23 18:27	应用程序扩展	118 KB
	libstdc++-6.dll	2014/10/23 18:27	应用程序扩展	1,003 KB
	libwinpthread-1.dll	2014/10/23 18:27	应用程序扩展	48 KB
4	Qt5Core.dll	2015/3/31 9:01	应用程序扩展	4,716 KB
9	Qt5Gui.dll	2014/12/6 1:43	应用程序扩展	5,090 KB
	Qt5Multimedia.dll	2014/12/6 2:41	应用程序扩展	766 KB
	Qt5Network.dll	2014/12/6 1:38	应用程序扩展	1,477 KB
4	Qt5Script.dll	2014/12/6 5:42	应用程序扩展	2,266 KB
4	Qt5SerialPort.dll	2014/12/6 2:10	应用程序扩展	94 KB
	Qt5Widgets.dll	2014/12/6 1:49	应用程序扩展	6,315 KB

### 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 RIY-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

E DFRobot							? X
Basic information :		Network information :		Com Information :		DHCP Information :	
Name: DFRobot		IP Address : 192.168.1.10 Network Mask : 255.255.255.0		485Address : 0x 1			
						DHCP Status : off	
Version : DfRobot V1.0		Gate Way : 192.168.1		BaudRate : 115200 *			
	2 	Port :	2000				
Shange Name V	05	Change In	Ves	Change	Ves	Change	Ves
Relay Status Contr Relay1	ol :	00		Relays :			
Relay Status Contr Relay1 Relay2	ol : : •	on	]<	Relays :	•	en	
Relay Status Contr Relay1 Relay2 Relay2	ol : : •	on	<b> </b>	Relay5 : Relay5 : Relay5 :	•	en On On	
Relay Status Contr Relay1 Relay2 Relay3 Relay3	ol : : •	on on on	4	Relay5 : Relay6 : Relay7 : Relay8 :	•	en on on on	

**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!

	HostName		IP Address		Port	1
1	DFRobot	192.10	58.1.10	2000		
		1				
		1				
	2					
	ł} –					

Com S	et					1 ×
Basic Info	rmation :	Network infor	mation :	Com Information :	DHCP Information :	
Name :	Poe	Ip Address :	192.168.1.10	Com Number : •		
		Gate Way :	192,168.1.1		DHCP Status : or	() e
couress : s	a 91	Port :	2000	BaudRate : 115200 -		
/ersion :	DfRobot V1.0	Network Mask :	255,255,255.0			
	lestart	4	let IP	chang rate	Get DH	CP
Change No	erne Yes	Change Ip	Yes	Open Com Close Cor	n Change DHCF	Ves
Relay St	atus Control : Relay1 :			Relay5 :	en	
	Relay2 :	00		1 Relay6 : 🔴	on	
	Relay3 :			Relay7 : 🥌	on	
	Relay4 :			Relays : 🧶	an	

#### **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** 

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