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RLY-8-POE Relay Controller DFR0289



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Introduction

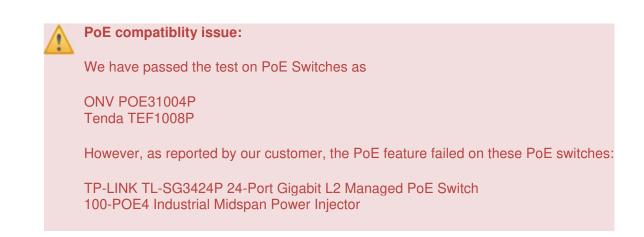
With ethernet relay, IOT has become so easy. RLY-8-POE-USB is a POE&USB controlled 8 channel relay controller based on STM32. With this module users can be able to do remote control/switching power supply centralized management, the purpose of this product can be directly by net POE power supply switch 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

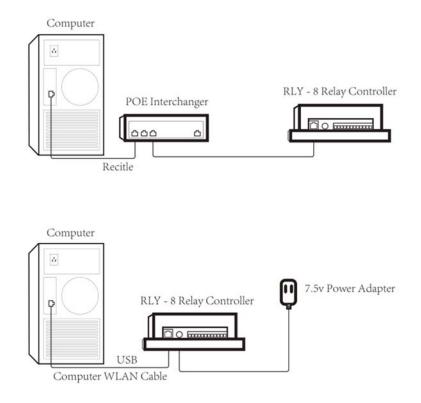
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Hardware POE Relay x1 PC X1 USB to UART or ethernet cable POE Ethernet switch or ordinary Ethernet switch Software updata computer software & usb driver Click to Download https://github.com/nxcosa/RLY-8-Relay-Controller

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

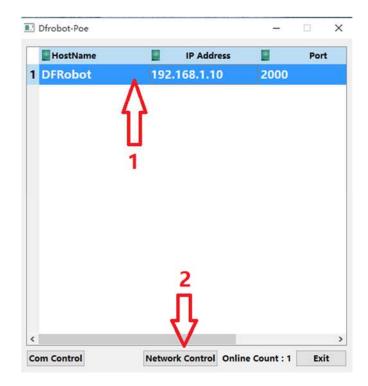
PC Control POE Relay

Open the Software

codecs 2015/4/21 10:02 designer 2015/4/21 9:59 imageformats 2015/4/21 10:03 platforms 2015/4/21 10:37 sqldrivers 2015/4/21 10:00	文件夹 文件夹 文件夹	
imageformats 2015/4/21 10:03 platforms 2015/4/21 10:37	文件夹文件夹	
platforms 2015/4/21 10:37	文件夹	
sqldrivers 2015/4/21 10:00	who / ill other	
) 文件夹	
Enternet_Com_Control.exe 20 5/11/4 10:07	应用程序	725 KB
icudt53.dll 2014/10/16 18:3	4 应用程序扩展	21,061 KB
icuin53.dll 2014/10/16 18:3	4 应用程序扩展	3,671 KB
icuuc53.dll 2014/10/16 18:3	3 应用程序扩展	2,045 KB
libgcc_s_dw2-1.dll 2014/10/23 18:2	7 应用程序扩展	118 KB
libstdc++-6.dll 2014/10/23 18:2	27 应用程序扩展	1,003 KB
libwinpthread-1.dll 2014/10/23 18:2	7 应用程序扩展	48 KB
Qt5Core.dll 2015/3/31 9:01	应用程序扩展	4,716 KB
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
Qt5Script.dll 2014/12/6 5:42	应用程序扩展	2,266 KB
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

Basic information :		Network information :		Com Information :		DHCP Information :	
Name: DFRobot		IP Address :	192.168.1.10	485Address : 0x 1			
		Network Mask :	255.255.255.0			DHCP Status : off	
Version : DfRobot V1.0		Gate Way :	192,168.1,1	BaudRate : 115200 *			
		Port : 2000					
Change Name	Ves	Change Ip	Yes	Change	Yes	Change	Ves
	ontrol : elay1 : (on		Relay5 :		en	
Re		on on]<	Relay5 : Relay6 :	•	en On	
Re	elay1 : (~		•		
Re	elay1 : (elay2 : (on	V	Relay6 :	•	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	192.168.1.10	2000		
	វ			
	1			
2				
Î				

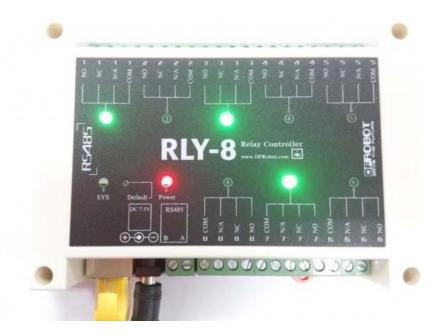
Com Se	et				1 ×
Basic Infor	mation :	Network infor	mation :	Com Information :	DHCP Information :
Name :	Poe	Ip Address :	192.168.1.10	Com Number :	
Address : 0		Gate Way :	192.168.1.1		DHCP Status : on r
kodress : u	* 01	Port :	2000	BaudRate : 115200	
Version :	DfRobot V1.0	Network Mask :	253,255,255.0		
	estart	4	iet IP	chang rate	Get DHCP
Change Na	me Yes	Change Ip	Yes	Open Com Close C	om Change DHCF Ves
Relay Sta	Relay1 :	• •		Relay5 :	en :
	Relay2 :	00		1 Relay6 : 🧲	en
	Relay3 :			Relay7 :	an
	Relay4 :			Relays : 🧲	an
	Relay4:				

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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