

Pomya Pomyah7fmew1kn6

Pomya LAN Ethernet 2-Way Relay Module Delay Switch (DC5V-24V)

Model: Pomyah7fmew1kn6

Brand: Pomya

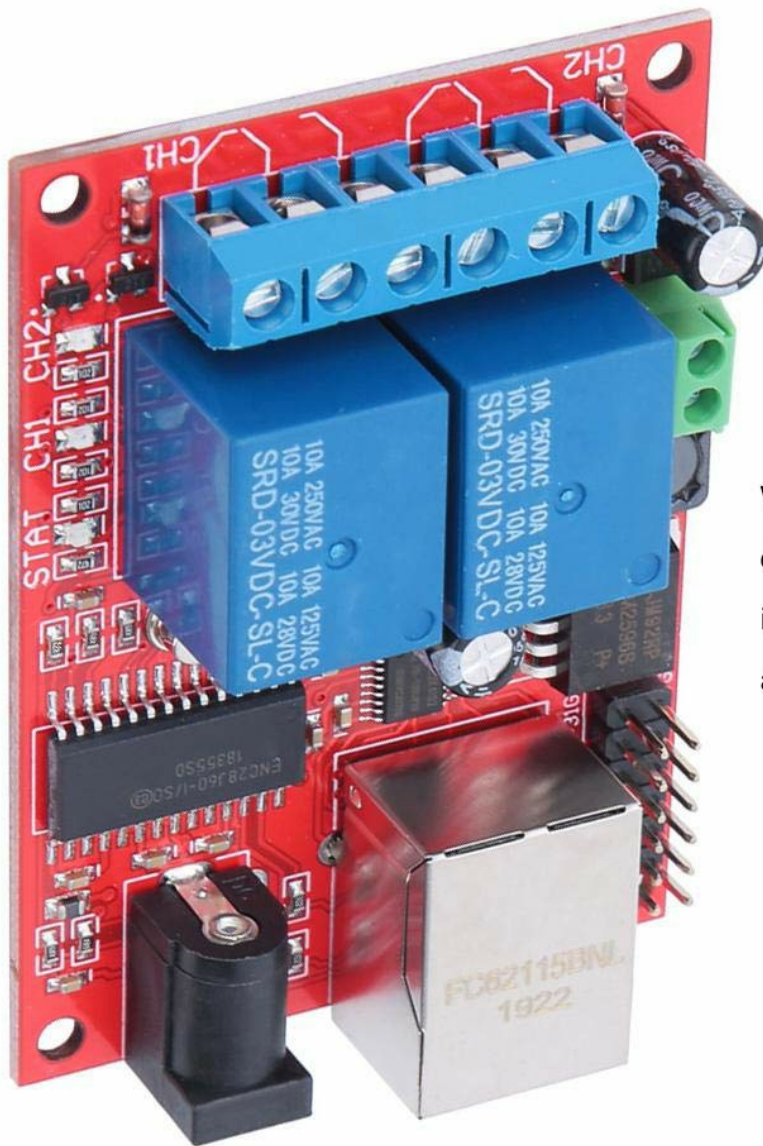
INTRODUCTION

The Pomya LAN Ethernet 2-Way Relay Module is an industrial-grade control device designed for various applications requiring network-controlled switching. It features an STC microcontroller as its main control chip and supports a wide input voltage range of DC5V-24V. This module integrates two high-quality relays with absorption diode circuits for reliable operation. It allows for network-based configuration of parameters, including the module's IP address, and offers secure remote control capabilities protected by a local password. Each relay on the module is equipped with a status indicator. When the indicator light is on, the corresponding relay is closed. The module is designed for expandability, allowing for extension to control up to 8 outputs. Please note that for extended configurations, the relay module should be active high.

SETUP INSTRUCTIONS

- Power Connection:** Connect a DC power supply within the 5V-24V range to one of the two available power terminals on the module. Ensure correct polarity.
- Network Connection:** Connect a standard Ethernet cable to the LAN port on the module. This will enable network communication for control and configuration.
- Load Connection:** Connect the devices or circuits you wish to control to the relay output terminals (CH1 and CH2). Each relay can handle up to 10A at 250VAC or 10A at 30VDC.
- Initial Configuration:** The module typically has a default IP address (e.g., 192.168.1.100) and default ports (e.g., TCP 6722, UDP 6723). Use a network configuration tool to set the module's IP address and other network parameters to match your local network environment.

5. **Verification:** After connecting power and network, observe the power indicator light. It should be on, indicating the module is powered.



With 1 power indicator, each relay has a state indicator, the light is on and the relay is closed.

Figure 1: Top view of the relay module with components.



Figure 2: Angled view showing the LAN port and power input.

OPERATING INSTRUCTIONS

The Pomya LAN Ethernet 2-Way Relay Module can be controlled via network commands. Control is typically achieved by sending specific command strings to the module's configured IP address and port.

- **Network Control:** Use a network utility or custom software to send commands to the module. The control interface is protected by a local password for security.
- **Relay Status Indicators:** Each relay (CH1, CH2) has a dedicated status indicator light. When the light is illuminated, the corresponding relay is in a closed (ON) state. When the light is off, the relay is in an open (OFF) state.
- **Command Structure:** After sending a control command string, the module will typically return an 8-byte text message indicating the current status of the relays. For example, '00000000' might indicate both relays are off, while '11000000' might indicate relay 1 is on and relay 2 is on. The first two characters of the returned string often correspond to the status of the respective relays.

- **Extension:** The module can be extended to control up to 8 outputs. When extending, ensure that the relay module is configured for active high operation.

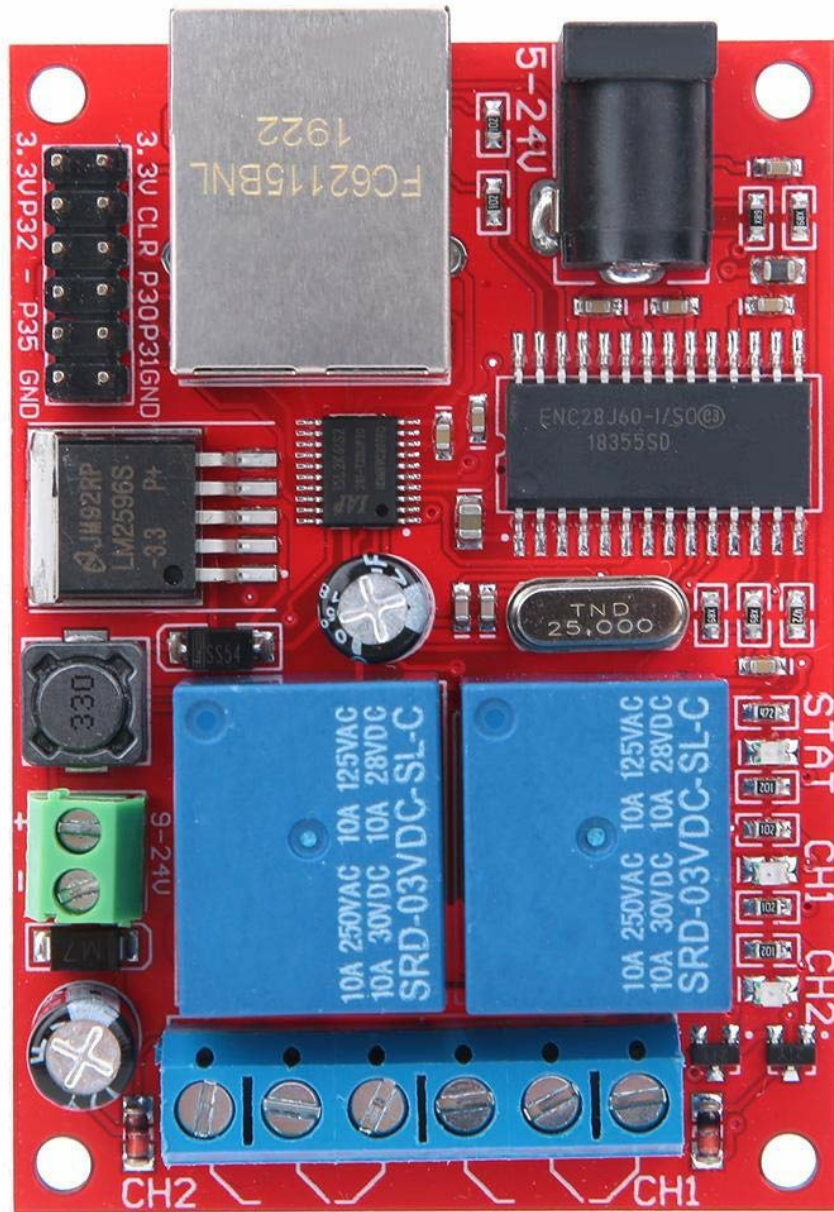


Figure 3: Power and relay status indicators.

TROUBLESHOOTING

- **Module Not Powering On:**

- Ensure the power supply is connected correctly and provides DC5V-24V.
- Check the power supply itself to ensure it is functioning.
- Verify polarity of the power connection.

- **No Network Connectivity:**

- Confirm the Ethernet cable is securely connected to both the module and the network device (router/switch).
- Verify the module's IP address and network settings are correctly configured for your network. The default IP is often 192.168.1.100, with TCP port 6722 and UDP port 6723.
- Check your network router/switch for any issues.

- **Relays Not Responding:**

- Ensure the module is powered and connected to the network.
- Verify that the control commands sent are correct and adhere to the module's protocol.
- Check the relay status indicators to see if they change state.
- If extending to 8 outputs, confirm the module is set to active high.

- **Slow Response Over Internet:**

- Internet-based control may experience latency. For critical applications, consider local network control.
- Ensure your internet connection is stable and has sufficient bandwidth.

- **Difficulty with Configuration:**

- A dedicated configuration tool may be required to set up the module's network parameters. Search for such tools provided by Pomya or compatible with STC microcontrollers.

SPECIFICATIONS

Feature	Specification
Brand	Pomya
Model Number	Pomyah7fmew1kn6
Operating Mode	Automatic
Input Voltage	DC 5V-24V
Coil Voltage	24 Volts (DC)
Minimum Switching Voltage	5 Volts (DC)
Relay Type	2-Way High-Quality Relay

Feature	Specification
Relay Capacity	10A 250VAC / 10A 30VDC
Main Control Chip	Industrial-grade STC Microcontroller
PCB Size (L x W)	70 x 50mm (2.8 x 2 inches)
Weight	Approx. 50g (1.8oz)
Connectivity	LAN Ethernet
Country of Origin	China
UPC	738589194000

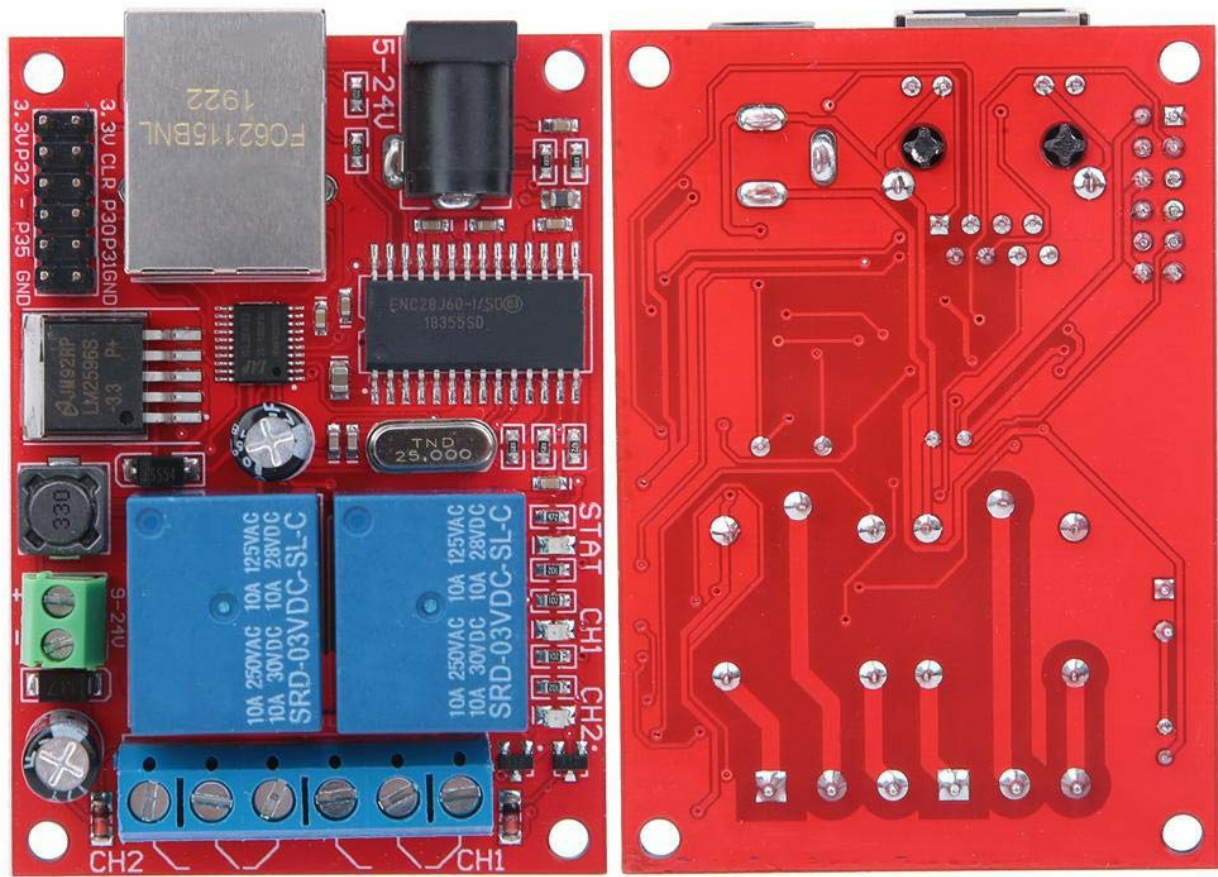


Figure 5: Top and bottom views of the module.

WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. Please refer to the seller's or manufacturer's official website for the most current warranty terms and conditions. Typically, electronic modules come with a limited warranty covering manufacturing defects for a specified period from the date of purchase.

SUPPORT

For technical assistance, troubleshooting, or further inquiries regarding the Pomya LAN Ethernet 2-Way Relay Module, please contact your point of purchase or refer to the official Pomya support channels. Support resources may include online documentation, FAQs, or direct customer service contact information. You may also find helpful information and community support by searching online forums or communities dedicated to STC microcontrollers and Ethernet relay modules, as some users have shared configuration tips and usage examples.