

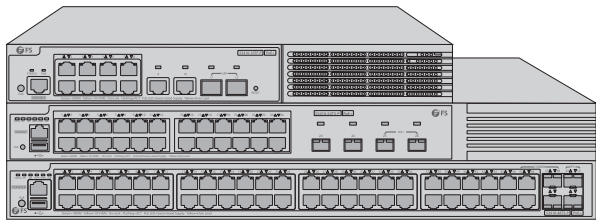
S3410 Series Switches

# MANAGED L2+ GIGABIT POE+ SWITCHES

Quick Start Guide **V1.0**

# Introduction

Thank you for choosing S3410 Series Managed PoE+ Switches. This guide is designed to familiarize you with the layout of the switch and describes how to deploy the switch in your network.



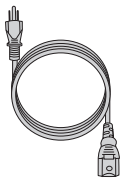
S3410-10TF-P

S3410-24TS-P

S3410-48TS-P

## Accessories

S3410-10TF-P



Power Cord x1



Grounding Cable x1



Rubber Pad x4



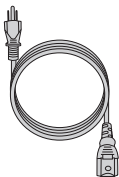
Mounting Bracket x2



Cable Clamps x1



M4 Screw x6



Power Cord x2



Grounding Cable x1



Rubber Pad x4



Mounting Bracket x2



M4 Screw x8

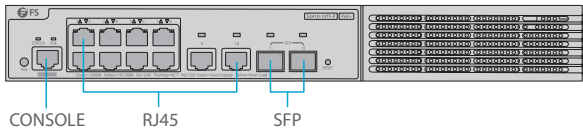


**NOTE:** S3410 series PoE+ switches have dust plugs delivered with them. Keep the dust plugs properly and use them to protect idle optical ports.

## Hardware Overview

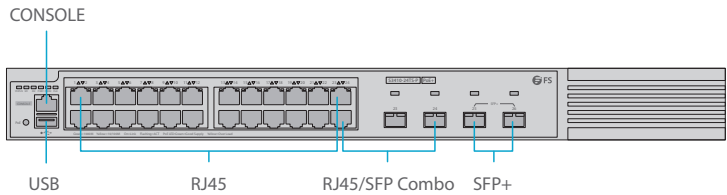
### Front Panel Ports

S3410-10TF-P

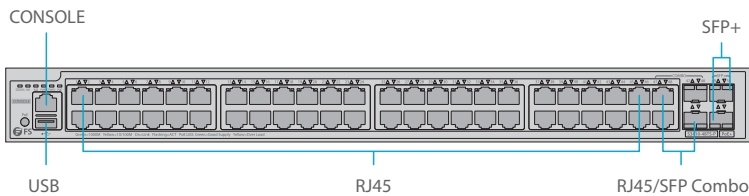


Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
SFP	SFP ports for 1G connection
CONSOLE	An RJ45 console port for serial management

S3410-24TS-P



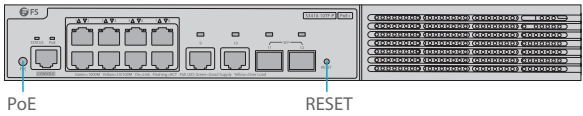
S3410-48TS-P



Ports	Description
RJ45	10/100/1000BASE-T ports for Ethernet connection
RJ45/SFP Combo	One RJ45 port and one SFP slot, with one port active at a time
SFP+	SFP+ ports for 1/10G connection
USB	Reserved
CONSOLE	An RJ45 console port for serial management

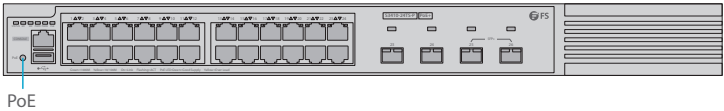
# Front Panel Buttons

S3410-10TF-P

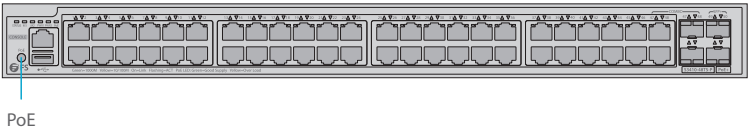


Button	Description
PoE	Switch the display mode between PoE mode and switch mode.
RESET	Restart: Press and hold the RESET button for more than five seconds, and then wait for ten seconds.

S3410-24TS-P



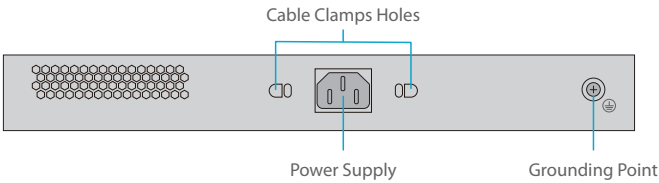
S3410-48TS-P



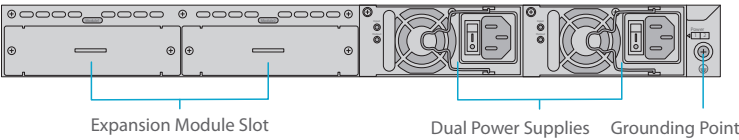
Button	Description
PoE	Switch the display mode between PoE mode and switch mode.

## Back Panels

S3410-10TF-P

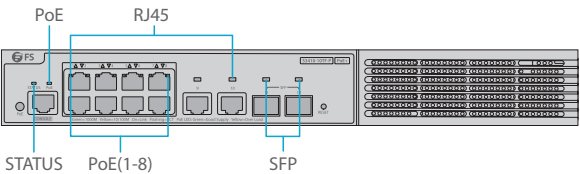


S3410-24TS-P/S3410-48TS-P

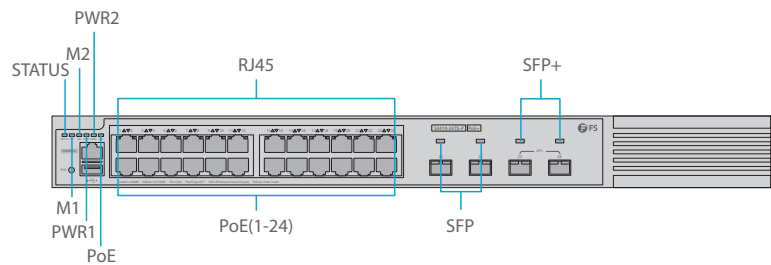


## Front Panel LEDs

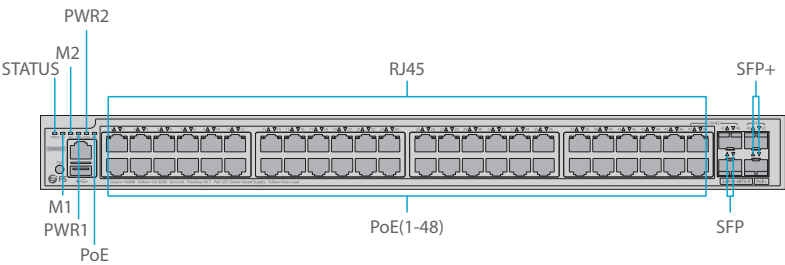
S3410-10TF-P



S3410-24TS-P



S3410-48TS-P



LEDs	Status	Description
STATUS	Off	Switch is not receiving power.
	Blinking Green	System is being initialized. Continuous blinking indicates errors.
	Solid Green	The switch is operational.
	Solid Yellow	Temperature warning, check the working environment of the switch immediately.
	Solid Red	Switch is faulty.
M1/M2	Off	There is no expansion module or the expansion module is not correctly installed.
	Solid Green	The expansion module is correctly installed.
PWR1/PWR2	Off	The power module is not in place.
	Solid Red	The power module is in place but the AC power cord or switch is abnormal.
	Solid Green	The power supply is operational.

LEDs	Status	Description
PoE	Solid Green	Indicates the switching state.
	Solid Yellow	Indicates the PoE state.
RJ45	Off	The port is not connected.
	Solid Green	The port is connected at 1000 Mbps.
	Blinking Green	The port is receiving or transmitting traffic at 1000 Mbps.
	Solid Yellow	The port is connected at 10/100 Mbps.
	Blinking Yellow	The port is receiving or transmitting traffic at 10/100 Mbps.
PoE (1-8)	Off	PoE is not enabled.
PoE (1-24)	Solid Green	PoE is enabled. The port is operational.
PoE (1-48)	Solid Yellow	The port has a PoE fault of overload.
SFP	Off	The port is not connected.
	Solid Green	The port is connected at 1000 Mbps.
	Blinking Green	The port is receiving or transmitting traffic at 1000 Mbps.
	Solid Yellow	The port is connected at 100 Mbps.
	Blinking Yellow	The port is receiving or transmitting traffic at 100 Mbps.
SFP+	Off	The port is not connected.
	Solid Green	The port is connected.
	Blinking Green	The port is receiving or transmitting traffic at 10 Gbps.

# Installation Requirements

## **Before you begin the installation, make sure that you have the followings:**

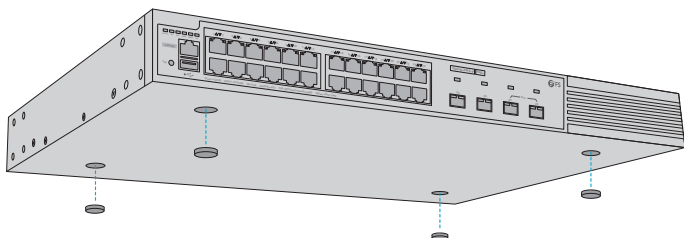
- Phillips screwdriver.
- Standard-sized, 19" wide rack with a minimum of 1U height available.
- Category 5e or higher RJ-45 Ethernet cables, fiber optical cables and console cable for connecting network devices.

## **Site Environment:**

- Do not operate it in an area that exceeds an ambient temperature of 50°C.
- Standard-sized, 19" wide rack with a minimum of 1U height available.
- Be sure that the switch is level and stable to avoid any hazardous conditions.
- Do not install the equipment in a dusty environment.
- The installation site must be free from leaking or dripping water, heavy dew, and humidity.
- Ensure rack and working platforms are well earthed.

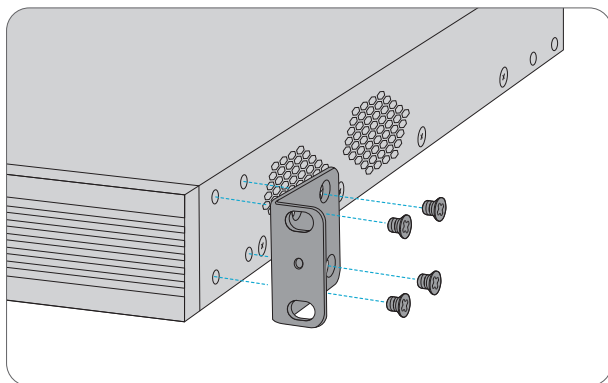
# Mounting the Switch

## Desk Mounting

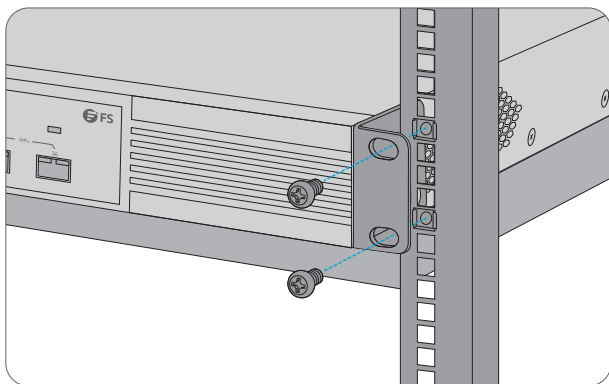


1. Attach four rubber pads to the bottom.
2. Place the chassis on a desk.

## Rack Mounting

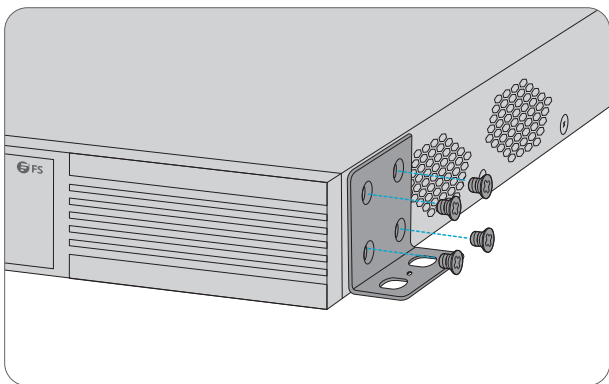


1. Secure the mounting brackets to the two sides of the switch with the supplied M4 screws.

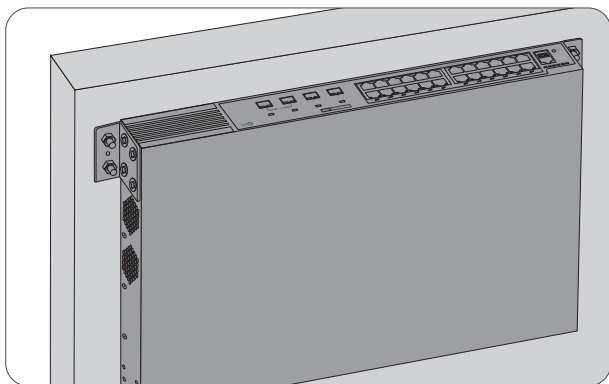


2. Attach the switch to the rack using four M6 screws and cage nuts.

## Wall Mounting



1. Secure the mounting brackets to the two sides of the switch with the supplied M4 screws.



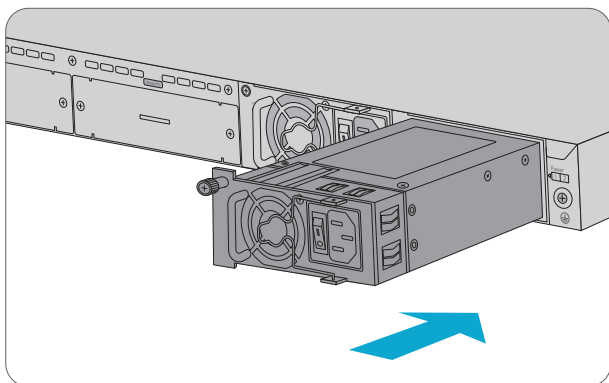
2. Use the expansion screws to securely attach the mounting brackets on the wall.



**NOTE:** Suitable for mounting on concrete or other non-combustible surface only.

## Installing the Power Supply Module

S3410-24TS-P/S3410-48TS-P



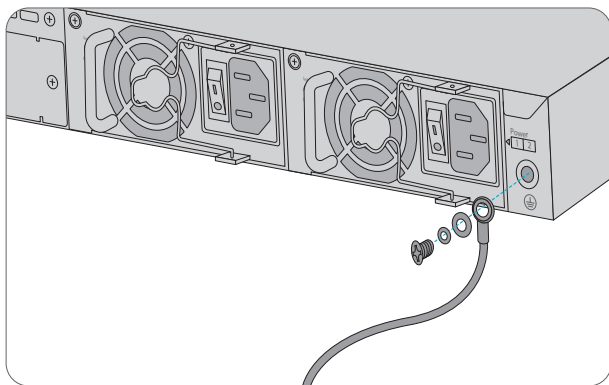
1. Take a new power module out of the package and confirm the input mode and the input parameters of the power module match the requirements.
2. Remove the old power module and take the plane printed with power information as the top panel of the power module. Hold the handle of the power module with one hand, and hold the end of the power module with the other hand. Insert it into the chassis along the guide rail uprightly and slowly until it clicks into place, and make sure that it is in good contact with the power slot.



**NOTE:** 1. S3410-10TF-P switch has one built-in power supply.

2. Insert the power module steadily. Please pay attention to the direction of the power panel to avoid wrong insertion. If the position is not proper, press the plug of the power module and hold on to the module handle with one hand to pull it out slowly, then re-insert it.

## Grounding the Switch

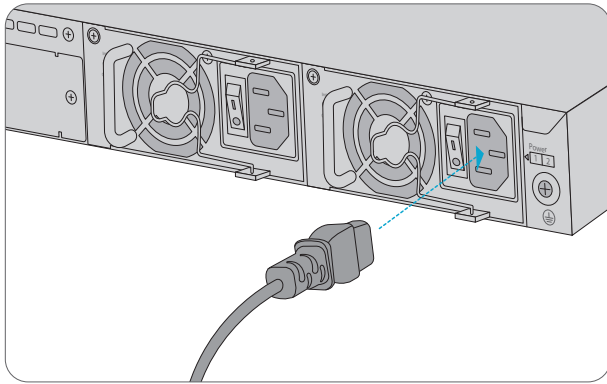


1. Connect one end of the grounding cable to a proper earth ground, such as the rack in which the switch is mounted.
2. Secure the grounding lug to the grounding point on the switch back panel with the washers and screws.



**CAUTION:** The earth connection must not be removed unless all supply connections have been disconnected.

## Connecting the Power

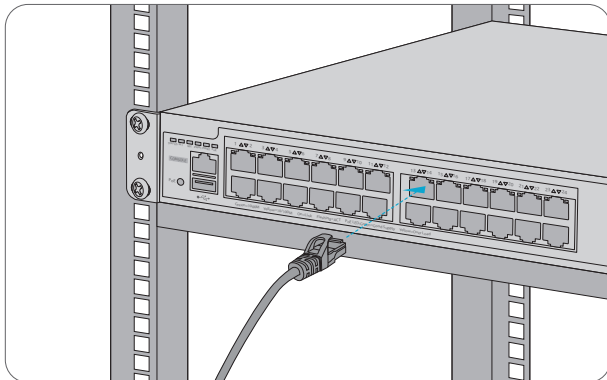


1. Plug the AC power cord into the power port on the back of the switch.
2. Connect the other end of the power cord to an AC power source.



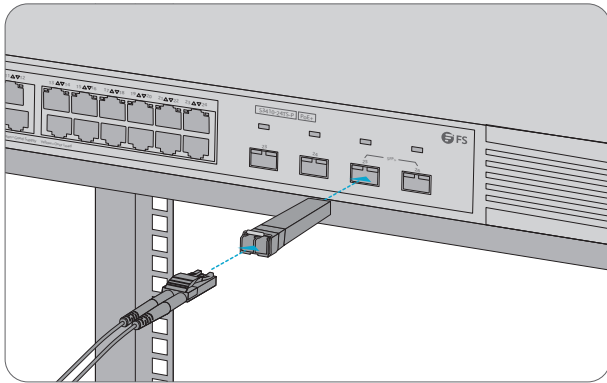
**WARNING:** Do not install power cable while the power is on.

## Connecting the RJ45 Ports



1. Connect an Ethernet cable to the RJ45 port of IP cameras, IP telephone, Access Points (AP), or other network devices.
2. Connect the other end of the Ethernet cable to the RJ45 port of the switch.

## Connecting the SFP/SFP+ Ports

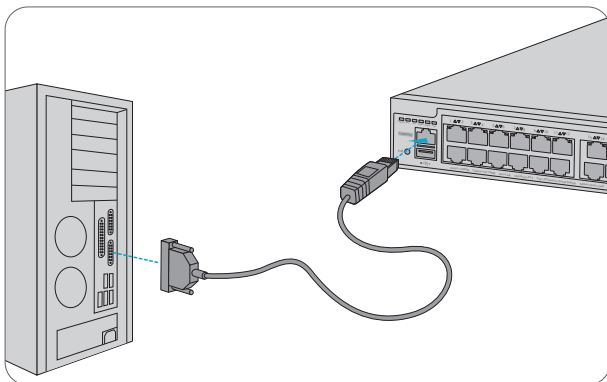


1. Plug the compatible SFP/SFP+ transceiver into the SFP/SFP+ port.
2. Connect a fiber optic cable to the fiber transceiver. Then connect the other end of the cable to another fiber device.



**WARNING:** Laser beams will cause eye damage. Do not look into bores of optical modules or optical fibers without eye protection.

## Connecting the Console Port

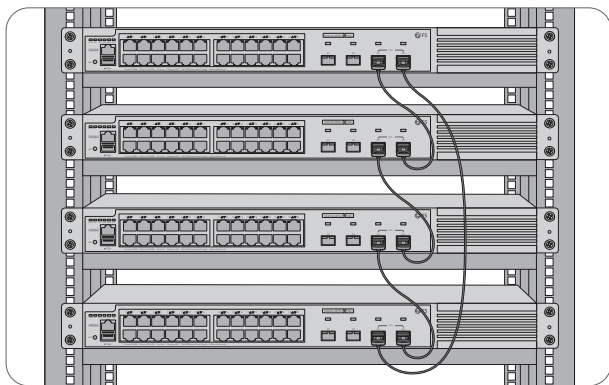


1. Insert the RJ45 connector into the RJ45 console port on the front of the switch.
2. Connect the DB9 female connector of the console cable to the serial port on the computer.

## Stacking the Switches

### S3410-24TS-P/S3410-48TS-P

The S3410-24TS-P/S3410-48TS-P switches support stacking up to 4 switches between the same series together. The switches can be physically stacked using optical fiber cables connected to SFP+ transceivers or 10G Direct Attach Cables (DAC). S3410-24TS-P switch supports ports 25 & 26 for physical stacking. S3410-48TS-P switch supports port 49 & 50 for physical stacking.



**NOTE:** S3410-10TF-P switch can't be stackable.

# Configuring the Switch

## Configuring the Switch Using the Web-based Interface

Step 1: Connect the computer to any Ethernet port of the switch using the network cable.

Step 2: Set the IP address of the computer to **192.168.1.x**. ("x" is any number from 2 to 254.). Set the subnet mask of the computer to **255.255.255.0**.

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address: 192 . 168 . 1 . 2

Subnet mask: 255 . 255 . 255 . 0

Default gateway: . . .

☐ Obtain DNS server address automatically

☒ Use the following DNS server addresses:

Preferred DNS server: . . .

Alternate DNS server: . . .

☐ Validate settings upon exit

Advanced...

OK Cancel

Step 3: Open a browser, type **http://192.168.1.1**, and enter the default username and password, **admin/admin**.

FS

IE 8/9/10/11, Google Chrome, Firefox are supported

admin

\*\*\*\*\*

Login

Step 4: Click **Login** to display the web-based configuration page.

## Configuring the Switch Using the Console Port

- Step 1: Connect a computer to the switch's console port using the console cable.
- Step 2: Start the terminal simulation software such as HyperTerminal on the computer.
- Step 3: Set the parameters of the HyperTerminal: 9600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.

Quick Connect

✕

Protocol:

Serial

The port may be manually entered or selected from the list.

Port:

COM3

Baud rate:

9600

Data bits:

8

Parity:

None

Stop bits:

1

Flow Control

☐ DTR/DSR

☐ RTS/CTS

☐ XON/XOFF

Name of pipe:

☐ Show quick connect on startup

☐ Save session

☐ Open in a tab

Connect

Cancel

- Step 4: After setting the parameters, click **Connect** to enter.

## Troubleshooting

### Serial port console has no output or outputs illegible characters

1. Change the serial port opened by the configuration software to be the one connected to the switch.
2. Check that the parameter configuration of the serial port matches that specified in the instructions.

### 1/10G Port is not Working

In the case of compatible cables and transceivers, the port cannot be up, please try to modify the port mode to adapt or force the port speed to 1/10G.

### Connecting the Switch Remotely Unsuccessfully

1. Test network connectivity through ping.
2. If the network is reachable, try restarting the switch.
3. Check if the corresponding service is enabled.

## The Port is not Working, the LED Indicator is Off

1. Ensure the switch ports are in the no shutdown state.
2. Check if the switch can read the DDM information.
3. Check if the port speed setting is correct.
4. Try looping the switch cable.

## RJ45 port is not in connectivity or it is erroneous in receiving/transmitting frames

1. Replace the twisted pair cable.
2. Check that the port configuration has the common working mode with the connected switch.

## Support and Other Resources

- Download <https://www.fs.com/download.html>
- Help Center [https://www.fs.com/service/help\\_center.html](https://www.fs.com/service/help_center.html)
- Contact Us [https://www.fs.com/contact\\_us.html](https://www.fs.com/contact_us.html)

## Product Warranty

FS ensures our customers that any damage or faulty items due to our workmanship, we will offer a free return within 30 Days from the day you receive your goods. This excludes any custom made items or tailored solutions.



Warranty: S3410 Series Switches enjoy 5 years limited warranty against defect in materials or workmanship. For more details about warranty, please check at <https://www.fs.com/policies/warranty.html>



Return: If you want to return item(s), information on how to return can be found at [https://www.fs.com/policies/day\\_return\\_policy.html](https://www.fs.com/policies/day_return_policy.html)