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› [Cisco](#) /

› [Cisco SF300-24P 24-port 10/100 PoE Managed Switch User Manual](#)

Cisco SF300-24P

Cisco SF300-24P 24-port 10/100 PoE Managed Switch User Manual

MODEL: SF300-24P (SRW224G4P-K9-NA)

Brand: Cisco

Introduction

The Cisco SF300-24P is a 24-port 10/100 Power over Ethernet (PoE) Managed Switch with Gigabit Uplinks, designed to provide a robust and secure network foundation for small businesses. This switch improves the availability of critical business applications, protects sensitive information, and optimizes network bandwidth for a more productive and effective workplace. It offers an ideal combination of affordability, performance, and capabilities, engineered for ease of setup and use.

Key Features

- **24 Fast Ethernet Ports with PoE:** Provides 24 10/100 ports with Power over Ethernet capabilities, simplifying deployment of network endpoints like IP phones, wireless access points, and IP cameras.
- **Gigabit Uplinks:** Includes additional Gigabit Ethernet ports for high-speed connections to the network backbone or other devices.
- **Managed Switch Capabilities:** Offers advanced management features for enhanced control over network traffic, security, and quality of service (QoS).
- **IPv6 Support:** Future-proofs your network with support for the latest Internet Protocol version.
- **Layer 3 Routing Between VLANs:** Enables efficient routing of traffic between different Virtual Local Area Networks (VLANs).
- **Energy Efficient Technology:** Designed to optimize power usage by powering down unused ports, reducing energy costs.
- **Web-Based Management Interface:** Provides an intuitive graphical interface for quick and easy setup and configuration.

Setup

Follow these general steps to set up your Cisco SF300-24P Managed Switch:

1. **Unpack the Switch:** Carefully remove the switch and all accessories from the packaging.
2. **Mounting (Optional):** The switch can be placed on a desktop or rack-mounted. Ensure adequate ventilation around the

device.

3. **Connect Power:** Connect the provided power cord to the switch's power input and then to a grounded electrical outlet.
4. **Connect Network Cables:**
 - Connect your network devices (computers, IP phones, wireless access points) to the 10/100 Ethernet ports.
 - For uplink connections to your router or core network, use the Gigabit uplink ports.
5. **Initial Configuration:** Access the switch's web-based management interface using a web browser on a computer connected to the same network. Refer to the [Operating](#) section for details on accessing the interface.

Operating

The Cisco SF300-24P switch is managed via a web-based interface, allowing for comprehensive configuration and monitoring. To access the interface:

1. Ensure your computer is connected to the switch or the same network segment.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Enter the default IP address of the switch (typically found in the quick start guide or on a label on the device) into the browser's address bar. If the default IP has been changed, use the configured IP address.
4. Log in using the default username and password (refer to the quick start guide for initial credentials). It is highly recommended to change these default credentials immediately after the first login for security purposes.
5. From the web interface, you can configure various settings including VLANs, QoS, security policies, port settings, and monitor network status.

For detailed operational procedures and advanced configurations, consult the comprehensive user guide available on the Cisco support website.

Maintenance

Regular maintenance ensures optimal performance and longevity of your Cisco SF300-24P switch:

- **Keep the Device Clean:** Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Regularly check the Cisco support website for firmware updates. Applying the latest firmware can provide new features, performance improvements, and security patches.
- **Backup Configuration:** Periodically back up the switch's configuration settings. This allows for quick restoration in case of a device reset or replacement.
- **Environmental Conditions:** Ensure the switch operates within its specified temperature and humidity ranges to prevent overheating and component damage.

Troubleshooting

If you encounter issues with your Cisco SF300-24P switch, consider the following troubleshooting steps:

- **No Power:** Verify the power cord is securely connected to both the switch and the power outlet. Check the power indicator LED on the switch.
- **No Network Connectivity:**
 - Check the link/activity LEDs on the connected ports. If they are off, reseat the Ethernet cable or try a different cable/port.
 - Ensure connected devices are powered on and configured correctly.

- **Cannot Access Web Interface:**

- Confirm your computer's IP address is in the same subnet as the switch's IP address.
- Try pinging the switch's IP address from your computer.
- Clear your browser's cache or try a different browser.

- **PoE Devices Not Powering On:**

- Ensure the device is PoE-compatible and meets the power requirements of the switch.
- Check the PoE status in the switch's web management interface.

- **Performance Issues:** Check for network loops, excessive broadcast traffic, or port errors via the web interface.

If issues persist, consult the detailed troubleshooting guide on the Cisco support website or contact Cisco technical support.

Specifications

Feature	Detail
Model Number	SF300-24P (SRW224G4P-K9-NA)
Ports	24 x 10/100 Fast Ethernet with PoE, 2 x 10/100/1000 Gigabit Uplinks (combo SFP)
Switching Capacity	12.8 Gbps
Forwarding Performance (64-byte packet size)	9.52 Mpps
Power over Ethernet (PoE)	Yes
Interface Type	PoE
Voltage	240 Volts
Product Dimensions	17.3 x 1.45 x 10.1 inches
Item Weight	8.22 pounds
Color	Black
Case Material	Plastic

Warranty and Support

The Cisco SF300-24P Managed Switch comes with a **Limited Lifetime Warranty**, which includes next business day advanced replacement. For detailed warranty terms and conditions, please refer to the official Cisco documentation.

For technical support, documentation, and additional resources, visit the official Cisco Small Business Support Center website. You can also utilize tools like Cisco Discovery Protocol, Cisco FindIT Network Discovery Utility, and Cisco Smartports for simplified setup and management.

Official Cisco Small Business Solutions: www.cisco.com/go/smallbusiness

Product Visuals and Demonstrations



Figure 1: Front view of the Cisco SF300-24P 24-port 10/100 PoE Managed Switch, showing 24 Fast Ethernet ports and 4 Gigabit uplink ports.



Video 1: An official video demonstrating the features and benefits of the Cisco 300 Series Switches, including Power over Ethernet (PoE), IPv6 support, and energy efficiency.