Cisco SG35010PK9NA

Cisco SG350-10P Managed Switch User Manual

Model: SG350-10P (SG35010PK9NA)

Brand: Cisco

1. Product Overview

The Cisco SG350-10P is a 10-port Gigabit Power over Ethernet (PoE) Managed Switch designed for small and medium-sized businesses. It offers advanced features for reliable and secure network connectivity, supporting both Layer 2 and Layer 3 functionalities.



Figure 1: Front view of the Cisco SG350-10P Managed Switch.

Key Features:

- **Ethernet Port Configuration:** 8-port 10/100/1000 Gigabit Ethernet RJ45 ports, plus 2 x 1G uplinks (SFP).
- **Power over Ethernet (PoE):** 8 PoE ports with a 62W total power budget, supporting PoE, PoE+, and PoE PD port capabilities.
- **Configuration and Control:** Features an easy-to-use on-box WebUI, Command Line Interface (CLI), SNMP, Cisco FindIT Network Manager, Plug and Play (PnP), Auto Smartports, auto-discovery, and zero-touch deployment for simplified management.
- **L2+/L3 Features:** Includes Static routing, Quality of Service (QoS), voice/guest VLAN, Multiple Spanning Tree Protocol (MSTP), IGMP snooping, time-based access control lists (ACLs), 802.1x authentication, Web-based Authentication, IPv6 First Hop-Security, and IP Source Guard.

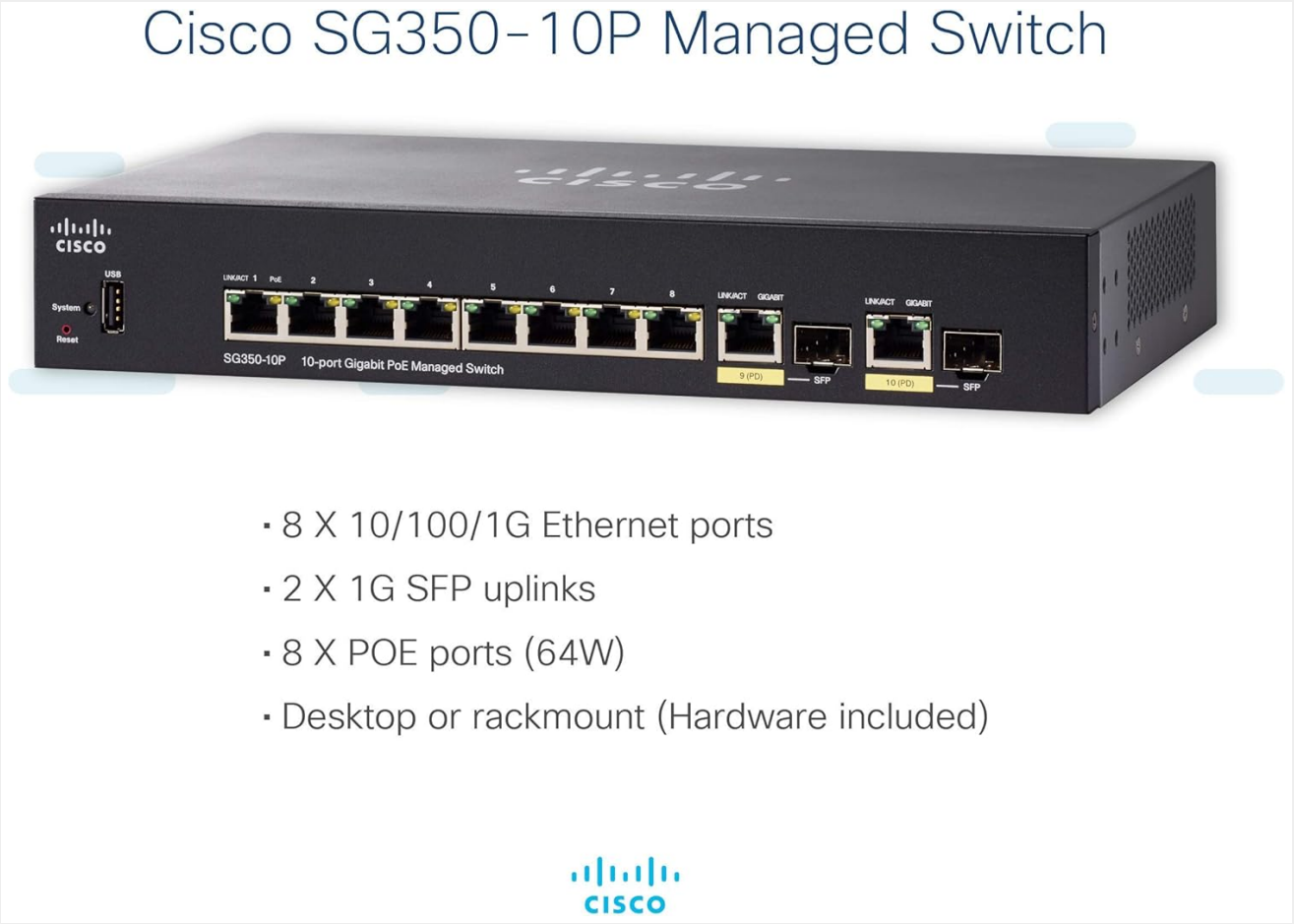


Figure 2: Visual representation of the Cisco SG350-10P's key features, including 8 x 10/100/1G Ethernet ports, 2 x 1G SFP uplinks, 8 PoE ports (62W), and desktop or rackmount options.

2. Setup and Installation

2.1 Unpacking and Included Components

Carefully unpack the switch and verify that all components are present. The package should include:

- Cisco SG350 Gigabit Switch
- Power Adapter
- Mounting Kit (for desktop or rackmount installation)
- Console Cable
- Quick Start Guide

2.2 Physical Installation

The SG350-10P switch can be installed on a desktop or mounted in a rack using the provided kit.

1. **Desktop Placement:** Place the switch on a flat, stable surface, ensuring adequate ventilation around the device.
2. **Rack Mounting:** Attach the provided mounting brackets to the sides of the switch and secure it into a standard 19-inch equipment rack.

2.3 Connecting the Switch

1. **Power Connection:** Connect the power adapter to the switch's power input and then to a power outlet.

2. **Network Connections:** Connect your network devices (computers, servers, access points, IP phones, etc.) to the RJ45 Ethernet ports (1-8). For uplink connections to other switches or routers, use the SFP ports (9-10) with appropriate transceivers.
3. **Console Connection (Optional):** For initial configuration or advanced troubleshooting via CLI, connect the console cable from your computer to the switch's console port.

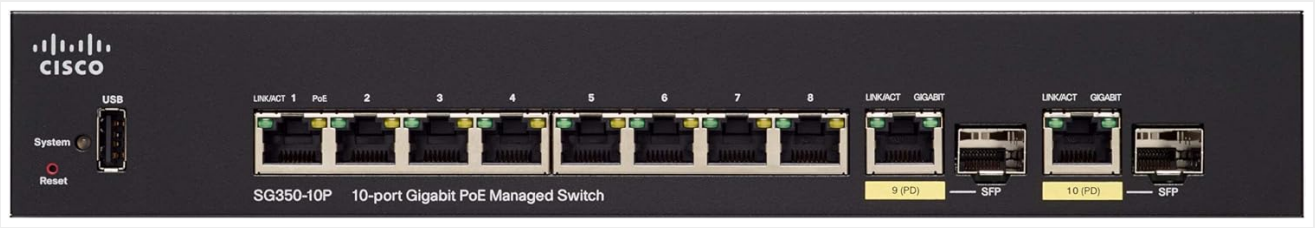


Figure 3: Detailed view of the Cisco SG350-10P front panel, showing 8 Gigabit Ethernet RJ45 ports and 2 Gigabit Ethernet Combo SFP ports.

2.4 Initial Configuration

The switch can be configured using its Web User Interface (WebUI), Command Line Interface (CLI), or Cisco FindIT Network Manager. For initial setup, it is often easiest to use the WebUI.

- **WebUI Access:** Connect a computer directly to one of the switch's Ethernet ports. Configure your computer's IP address to be in the same subnet as the switch's default IP (refer to the Quick Start Guide for default IP). Open a web browser and enter the switch's IP address.
- **Cisco FindIT Network Manager:** This tool provides auto-discovery and zero-touch deployment capabilities, simplifying the setup and management of multiple Cisco Business devices.

3. Operating the Switch

3.1 Basic Network Operation

Once powered on and connected, the switch will automatically begin forwarding Ethernet traffic between connected devices. The Link/Act LEDs on each port indicate connection status and activity.

3.2 Power over Ethernet (PoE) Functionality

The SG350-10P provides Power over Ethernet (PoE) on 8 ports, allowing you to power compatible devices such as IP phones, wireless access points, and IP cameras directly through the Ethernet cable. This eliminates the need for separate power adapters for these devices.



Figure 4: Diagram illustrating how Power over Ethernet (PoE) can power network devices without the need for wall outlets.

3.3 Advanced Features

The managed capabilities of the SG350-10P allow for advanced network configurations:

- **VLANs (Virtual Local Area Networks):** Segment your network for improved security and performance.
- **Quality of Service (QoS):** Prioritize critical network traffic (e.g., voice, video) to ensure optimal performance.
- **Static Routing:** Configure routes for traffic between different IP subnets.
- **Security Features:** Implement Access Control Lists (ACLs), 802.1x port-based authentication, and IP Source Guard to protect your network from unauthorized access and attacks.

- **Monitoring:** Use SNMP and the Cisco Business Dashboard to monitor network performance and device status.



Figure 5: Screenshot of the Cisco Business Dashboard, used for managing your entire Cisco Business network.

4. Maintenance

4.1 Firmware Updates

Regularly check the Cisco support website for firmware updates. Keeping your switch's firmware up-to-date ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update package for a successful upgrade.

4.2 Configuration Backup and Restore

It is highly recommended to regularly back up your switch's configuration. This allows for quick restoration of settings in case of an unexpected issue or when replacing the device.

4.3 Environmental Considerations

Ensure the switch operates within its specified temperature and humidity ranges. Maintain proper ventilation to prevent overheating. Keep the device free from dust and debris.

5. Troubleshooting

5.1 No Power

- Verify the power adapter is securely connected to the switch and a working power outlet.
- Check the power LED on the switch. If it's off, try a different power outlet or adapter.

5.2 No Network Connectivity

- Check the Link/Act LEDs on the connected ports. A solid green or amber light indicates a link, and a blinking light indicates activity.
- Ensure Ethernet cables are properly seated and not damaged.
- Verify IP address configurations on connected devices and the switch.
- If using SFP ports, ensure compatible transceivers are used and properly inserted.

5.3 PoE Devices Not Powering On

- Confirm the device is PoE compatible and connected to a PoE-enabled port.
- Check the PoE status LEDs on the switch.
- Ensure the total power budget (62W) is not exceeded by all connected PoE devices.

5.4 Accessing the WebUI

- If you cannot access the WebUI, ensure your computer's IP address is in the same subnet as the switch.
- Try clearing your browser's cache or using a different browser.
- If the switch's IP address has been changed and forgotten, you may need to perform a factory reset (refer to the Quick Start Guide for instructions).

6. Specifications

Item Weight	4.8 Pounds
Case Material	Metal
Maximum Power	62 Watts (PoE Budget)
Upper Temperature Rating	40 Degrees Celsius
Interface Type	PoE, RJ45, SFP
Data Transfer Rate	10000 Megabits Per Second (10 Gigabit)
Number of Ports	10 (8x RJ45 Gigabit, 2x SFP Gigabit Combo)
Product Dimensions (LxWxH)	17.72 x 11.73 x 3.23 inches
Model Number	SG35010PK9NA
ASIN	B01HYA36RM
UPC	882658767579, 882658885952
Date First Available	July 1, 2016

7. Warranty and Support

The Cisco SG350-10P Managed Switch comes with comprehensive support and warranty:

- **Limited Lifetime Warranty:** Provides peace of mind for the hardware.
- **Next-Business-Day Replacement:** Ensures minimal downtime in case of hardware failure.
- **One Year of Technical Support:** Access to expert assistance for setup, configuration, and troubleshooting.
- **Free Software Fixes:** Available for the term of the warranty to keep your device secure and functional.

For detailed warranty information and to access technical support, please visit the official Cisco support website.