

Cisco SG300-10

Cisco SG300-10 Ethernet Switch User Manual

Model: SG300-10

1. INTRODUCTION

The Cisco SG300-10 is a 10-port Gigabit Managed Switch designed to provide a reliable and secure network foundation for small businesses. This device offers advanced features for improving application availability, protecting sensitive data, and optimizing network bandwidth. This manual provides essential information for the proper installation, configuration, operation, and maintenance of your SG300-10 switch.

2. PRODUCT OVERVIEW

The Cisco SG300-10 switch is a fixed-configuration managed Ethernet switch with 10 Gigabit Ethernet ports. It supports Power over Ethernet Plus (PoE+) on 8 ports, allowing for flexible deployment of network devices such as IP phones and wireless access points.

2.1. Package Contents

- Cisco 300-series Ethernet Switch (SG300-10)
- Power Cord (Power Adapter for Desktop SKUs)
- Mounting Kit
- Serial Cable
- CD-ROM with user documentation (PDF)
- Quick Start Guide

2.2. Front Panel Features

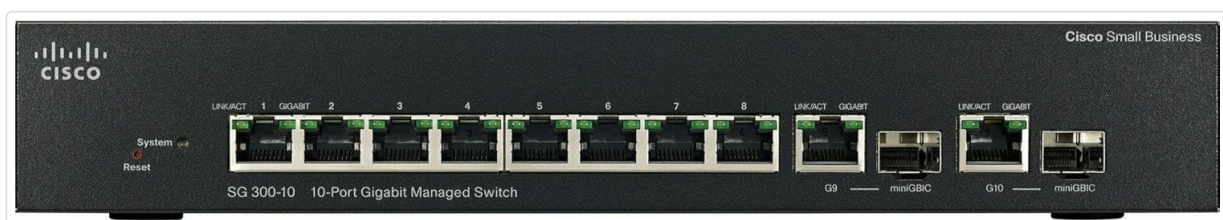


Figure 1: Front Panel of Cisco SG300-10 Switch

This image displays the front panel of the Cisco SG300-10 switch. It features eight RJ-45 Gigabit Ethernet ports (labeled 1-

8) and two combo Gigabit Ethernet ports (labeled G9 and G10), which can be used as either RJ-45 or SFP. A System LED and Reset button are also visible.

- **RJ-45 Gigabit Ethernet Ports (1-8):** Eight ports for connecting network devices using standard Ethernet cables. These ports support 802.3at PoE+ and 802.3af PoE.
- **Combo Gigabit Ethernet Ports (G9, G10):** Two ports that can function as either RJ-45 Gigabit Ethernet or SFP (Small Form-Factor Pluggable) ports for fiber optic connections.
- **System LED:** Indicates the operational status of the switch.
- **Reset Button:** Used to reset the switch to factory default settings.

2.3. Rear Panel Features



Figure 2: Rear Panel of Cisco SG300-10 Switch

The rear panel of the Cisco SG300-10 switch includes a Console port for command-line interface access and a 12V DC power input connector.

- **Console Port:** A serial port for direct command-line interface (CLI) access to the switch for advanced configuration and troubleshooting.
- **Power Input (12V DC):** Connector for the external power adapter.

3. SETUP AND INSTALLATION

3.1. Site Preparation

- Ensure adequate ventilation around the switch.
- Place the switch on a stable, flat surface or mount it using the provided kit.
- Keep the switch away from direct sunlight, heat sources, and excessive moisture.
- Ensure a reliable power source is available.

3.2. Connecting the Switch

1. **Connect Network Devices:** Connect your computers, servers, IP phones, or other network devices to the RJ-45 Gigabit Ethernet ports (1-8) using standard Ethernet cables. For devices requiring power over Ethernet, ensure they are PoE-compatible.
2. **Connect Uplink (Optional):** If connecting to another switch or router, use one of the Gigabit Ethernet ports (1-10) or the SFP ports (G9, G10) with appropriate transceivers and fiber optic cables.
3. **Connect Power:** Connect the power adapter to the 12V DC power input on the rear panel of the switch, then plug the power cord into an electrical outlet. The System LED on the front panel should illuminate.
4. **Initial Configuration Access:** For initial setup, connect a computer directly to any of the switch's RJ-45 ports. The switch typically obtains an IP address via DHCP by default. Refer to the Quick Start Guide or the full user documentation for details on accessing the web-based management interface.

4. OPERATING INSTRUCTIONS

4.1. LED Indicators

- **System LED:**
 - **Solid Green:** Device is powered on and operating normally.
 - **Flashing Green:** Device is performing a self-test or booting up.
 - **Off:** Device is powered off or experiencing a power issue.
- **Link/Act LEDs (per port):**
 - **Solid Green:** A valid link is established.
 - **Flashing Green:** Data activity is occurring on the port.
 - **Off:** No link is established.
- **Gigabit LEDs (per port):**
 - **Solid Green:** Link established at Gigabit speed (1000 Mbps).
 - **Off:** Link established at 10/100 Mbps.

4.2. Basic Network Connectivity

Once the switch is powered on and devices are connected, they should automatically establish network links. For advanced configurations such as VLANs, QoS, or security settings, access the switch's web-based management interface or use the command-line interface via the console port.

5. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Regularly check the Cisco support website for firmware updates. Keeping the firmware current ensures optimal performance, security, and access to new features. Follow the instructions provided with the firmware update package carefully.
- **Environmental Conditions:** Operate the switch within the recommended temperature and humidity ranges specified in the product specifications to ensure longevity and stable operation.

6. TROUBLESHOOTING

6.1. No Power

- Verify the power cord is securely connected to the switch and the electrical outlet.
- Ensure the electrical outlet is functional by testing it with another device.
- Check the power adapter for any visible damage.

6.2. No Link on a Port

- Ensure the Ethernet cable is securely connected at both ends.
- Test the cable with another device or replace it.
- Verify the connected device is powered on and functioning correctly.
- Check the port configuration in the switch's management interface (if applicable).

6.3. Network Access Issues

- Confirm that the switch has an IP address and is reachable on the network.

- Check for IP address conflicts on the network.
- Verify that the connected devices have correct network settings (IP address, subnet mask, gateway).
- If using advanced features like VLANs, ensure configurations are correct.

6.4. Resetting the Switch

To restore the switch to its factory default settings, press and hold the Reset button on the front panel for approximately 10-15 seconds while the switch is powered on. The System LED will change its behavior, indicating the reset process has begun. This action will erase all custom configurations.






7. SPECIFICATIONS

Feature	Detail
Model	SG300-10
Total System Ports	10x Gigabit Ethernet
RJ-45 Ports	8x Gigabit Ethernet
Combo Ports (RJ-45 + SFP)	2x Gigabit Ethernet Combo
PoE Support	802.3at PoE+, 802.3af, Cisco pre-standard PoE (8 ports support PoE)
Power Dedicated to PoE	62W
Switching Capacity	20.0 Gbps
Forwarding Rate	14.88 MPPS (64-byte Packets)
Dimensions (W x H x D)	11 x 1.45 x 6.7 inches (279.4 x 44.45 x 170 mm)
Unit Weight	2.73 lb (1.24 kg)
Case Material	Plastic
Data Transfer Rate	20 Gigabits Per Second

8. SUPPORT AND WARRANTY

As a renewed product, warranty terms may differ from new products. Please refer to the specific warranty information provided by the seller at the time of purchase. For technical support, detailed documentation, and software downloads, visit the official Cisco support website. You may also contact the seller directly for support related to your renewed device.

Cisco Support: <https://www.cisco.com/c/en/us/support/index.html>

	<p>Cisco Small Business 300 Series Managed Switches Quick Start Guide</p> <p>Get started quickly with the Cisco Small Business 300 Series Managed Switches. This guide covers unboxing, physical installation (rackmount, wallmount, desktop), network connection, initial configuration via web interface or console, and basic troubleshooting.</p>
	<p>Cisco Small Business 300 Series Managed Switches Quick Start Guide</p> <p>A concise guide to installing, connecting, configuring, and troubleshooting Cisco Small Business 300 Series Managed Switches. Includes hardware overview, setup steps, and support information.</p>
	<p>Cisco Small Business 300 Series Managed Switches Quick Start Guide</p> <p>This guide provides essential information for setting up and configuring Cisco Small Business 300 Series Managed Switches, including installation, network connection, basic configuration, and troubleshooting steps.</p>
	<p>Cisco 300 Series Small Business Managed Switches: Features, Specifications, and Benefits</p> <p>This document provides a comprehensive overview of the Cisco 300 Series Small Business managed Ethernet switches, detailing their features, business applications, technical specifications, and ordering information. It highlights ease of use, affordability, performance, and security for small business networks.</p>
<p>Manual Configuration of Time Settings of SG200, SG300, and SG500 Series Switches</p> <p>Objective</p> <p>After reading this manual, you will be able to:</p> <ul style="list-style-type: none">Understand the importance of time settings in a network environment.Configure the system time and time zone on the switch.Configure daylight saving time on the switch. <p>Applicable Devices</p> <p>SG200, SG300, SG500</p> <p>Software Version</p> <p>V1.4.2.04</p> <p>Setting the System Time</p> <p>Step 1: Log in to the web management interface.</p> <p>Step 2: Click on the "System Time" tab.</p> <p>Step 3: Configure the system time and time zone.</p> <p>Step 4: Click on the "OK" button to save the settings.</p>	<p>Manual Configuration of Time Settings for Cisco SG200, SG300, and SG500 Series Switches</p> <p>A guide to manually configuring time settings on Cisco SG200, SG300, and SG500 Series Managed Switches, including setting the system time, time zone, and daylight saving time.</p>
	<p>Cisco 200, 300, 500, ESW2 Series Switches Firmware Release Notes v1.4.2.04</p> <p>Official release notes for Cisco 200, 300, 500, and ESW2 Series Switches firmware version 1.4.2.04, detailing hardware compatibility, flash file system changes, new features, addressed issues, known limitations, and support resources.</p>